

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

**IN THE MATTER OF THE ADJUSTMENT
OF THE ELECTRIC RATES OF DUKE ENERGY KENTUCKY, INC.**

CASE NO. 2019-00271

FILING REQUIREMENTS

VOLUME 2

Duke Energy Kentucky, Inc.
Case No. 2019-00271
Forecasted Test Period Filing Requirements
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Vol. #	Tab #	Filing Requirement	Description	Sponsoring Witness
1	1	KRS 278.180	30 days' notice of rates to PSC.	Amy B. Spiller
1	2	807 KAR 5:001 Section 7(1)	The original and 10 copies of application plus copy for anyone named as interested party.	Amy B. Spiller
1	3	807 KAR 5:001 Section 12(2)	<p>(a) Amount and kinds of stock authorized.</p> <p>(b) Amount and kinds of stock issued and outstanding.</p> <p>(c) Terms of preference of preferred stock whether cumulative or participating, or on dividends or assets or otherwise.</p> <p>(d) Brief description of each mortgage on property of applicant, giving date of execution, name of mortgagor, name of mortgagee, or trustee, amount of indebtedness authorized to be secured thereby, and the amount of indebtedness actually secured, together with any sinking fund provisions.</p> <p>(e) Amount of bonds authorized, and amount issued, giving the name of the public utility which issued the same, describing each class separately, and giving date of issue, face value, rate of interest, date of maturity and how secured, together with amount of interest paid thereon during the last fiscal year.</p> <p>(f) Each note outstanding, giving date of issue, amount, date of maturity, rate of interest, in whose favor, together with amount of interest paid thereon during the last fiscal year.</p> <p>(g) Other indebtedness, giving same by classes and describing security, if any, with a brief statement of the devolution or assumption of any portion of such indebtedness upon or by person or corporation if the original liability has been transferred, together with amount of interest paid thereon during the last fiscal year.</p> <p>(h) Rate and amount of dividends paid during the five (5) previous fiscal years, and the amount of capital stock on which dividends were paid each year.</p> <p>(i) Detailed income statement and balance sheet.</p>	Christopher M. Jacobi Danielle L. Weatherston
1	4	807 KAR 5:001 Section 14(1)	Full name, mailing address, and electronic mail address of applicant and reference to the particular provision of law requiring PSC approval.	Amy B. Spiller
1	5	807 KAR 5:001 Section 14(2)	If a corporation, the applicant shall identify in the application the state in which it is incorporated and the date of its incorporation, attest that it is currently in good standing in the state in which it is incorporated, and, if it is not a Kentucky corporation, state if it is authorized to transact business in Kentucky.	Amy B. Spiller

1	6	807 KAR 5:001 Section 14(3)	If a limited liability company, the applicant shall identify in the application the state in which it is organized and the date on which it was organized, attest that it is in good standing in the state in which it is organized, and, if it is not a Kentucky limited liability company, state if it is authorized to transact business in Kentucky.	Amy B. Spiller
1	7	807 KAR 5:001 Section 14(4)	If the applicant is a limited partnership, a certified copy of its limited partnership agreement and all amendments, if any, shall be annexed to the application, or a written statement attesting that its partnership agreement and all amendments have been filed with the commission in a prior proceeding and referencing the case number of the prior proceeding.	Amy B. Spiller
1	8	807 KAR 5:001 Section 16 (1)(b)(1)	Reason adjustment is required.	Amy B. Spiller William Don Wathen, Jr.
1	9	807 KAR 5:001 Section 16 (1)(b)(2)	Certified copy of certificate of assumed name required by KRS 365.015 or statement that certificate not necessary.	Amy B. Spiller
1	10	807 KAR 5:001 Section 16 (1)(b)(3)	New or revised tariff sheets, if applicable in a format that complies with 807 KAR 5:011 with an effective date not less than thirty (30) days from the date the application is filed	Jeff L. Kern
1	11	807 KAR 5:001 Section 16 (1)(b)(4)	Proposed tariff changes shown by present and proposed tariffs in comparative form or by indicating additions in italics or by underscoring and striking over deletions in current tariff.	Jeff L. Kern
1	12	807 KAR 5:001 Section 16 (1)(b)(5)	A statement that notice has been given in compliance with Section 17 of this administrative regulation with a copy of the notice.	Amy B. Spiller
1	13	807 KAR 5:001 Section 16(2)	If gross annual revenues exceed \$5,000,000, written notice of intent filed at least 30 days, but not more than 60 days prior to application. Notice shall state whether application will be supported by historical or fully forecasted test period.	Amy B. Spiller
1	14	807 KAR 5:001 Section 16(3)	Notice given pursuant to Section 17 of this administrative regulation shall satisfy the requirements of 807 KAR 5:051, Section 2.	Amy B. Spiller
1	15	807 KAR 5:001 Section 16(6)(a)	The financial data for the forecasted period shall be presented in the form of pro forma adjustments to the base period.	Christopher M. Jacobi
1	16	807 KAR 5:001 Section 16(6)(b)	Forecasted adjustments shall be limited to the twelve (12) months immediately following the suspension period.	Sarah E. Lawler Melissa B. Abernathy Christopher M. Jacobi
1	17	807 KAR 5:001 Section 16(6)(c)	Capitalization and net investment rate base shall be based on a thirteen (13) month average for the forecasted period.	Sarah E. Lawler
1	18	807 KAR 5:001 Section 16(6)(d)	After an application based on a forecasted test period is filed, there shall be no revisions to the forecast, except for the correction of mathematical errors, unless the revisions reflect statutory or regulatory enactments that could not, with reasonable diligence, have been included in the forecast on the date it was filed. There shall be no revisions filed within thirty (30) days of a scheduled hearing on the rate application.	Christopher M. Jacobi

1	19	807 KAR 5:001 Section 16(6)(e)	The commission may require the utility to prepare an alternative forecast based on a reasonable number of changes in the variables, assumptions, and other factors used as the basis for the utility's forecast.	Christopher M. Jacobi
1	20	807 KAR 5:001 Section 16(6)(f)	The utility shall provide a reconciliation of the rate base and capital used to determine its revenue requirements.	Sarah E. Lawler
1	21	807 KAR 5:001 Section 16(7)(a)	Prepared testimony of each witness supporting its application including testimony from chief officer in charge of Kentucky operations on the existing programs to achieve improvements in efficiency and productivity, including an explanation of the purpose of the program.	All Witnesses
1	22	807 KAR 5:001 Section 16(7)(b)	Most recent capital construction budget containing at minimum 3 year forecast of construction expenditures.	Christopher M. Jacobi James Michael Mosley Ash M. Norton
1	23	807 KAR 5:001 Section 16(7)(c)	Complete description, which may be in prefiled testimony form, of all factors used to prepare forecast period. All econometric models, variables, assumptions, escalation factors, contingency provisions, and changes in activity levels shall be quantified, explained, and properly supported.	Christopher M. Jacobi
1	24	807 KAR 5:001 Section 16(7)(d)	Annual and monthly budget for the 12 months preceding filing date, base period and forecasted period.	Christopher M. Jacobi
1	25	807 KAR 5:001 Section 16(7)(e)	Attestation signed by utility's chief officer in charge of Kentucky operations providing: 1. That forecast is reasonable, reliable, made in good faith and that all basic assumptions used have been identified and justified; and 2. That forecast contains same assumptions and methodologies used in forecast prepared for use by management, or an identification and explanation for any differences; and 3. That productivity and efficiency gains are included in the forecast.	Amy B. Spiller
1	26	807 KAR 5:001 Section 16(7)(f)	For each major construction project constituting 5% or more of annual construction budget within 3 year forecast, following information shall be filed: 1. Date project began or estimated starting date; 2. Estimated completion date; 3. Total estimated cost of construction by year exclusive and inclusive of Allowance for Funds Used During construction ("AFUDC") or Interest During construction Credit; and 4. Most recent available total costs incurred exclusive and inclusive of AFUDC or Interest During Construction Credit.	Christopher M. Jacobi James Michael Mosley Ash M. Norton
1	27	807 KAR 5:001 Section 16(7)(g)	For all construction projects constituting less than 5% of annual construction budget within 3 year forecast, file aggregate of information requested in paragraph (f) 3 and 4 of this subsection.	Christopher M. Jacobi James Michael Mosley Ash M. Norton

1	28	807 KAR 5:001 Section 16(7)(h)	Financial forecast for each of 3 forecasted years included in capital construction budget supported by underlying assumptions made in projecting results of operations and including the following information: 1. Operating income statement (exclusive of dividends per share or earnings per share); 2. Balance sheet; 3. Statement of cash flows; 4. Revenue requirements necessary to support the forecasted rate of return; 5. Load forecast including energy and demand (electric); 6. Access line forecast (telephone); 7. Mix of generation (electric); 8. Mix of gas supply (gas); 9. Employee level; 10. Labor cost changes; 11. Capital structure requirements; 12. Rate base; 13. Gallons of water projected to be sold (water); 14. Customer forecast (gas, water); 15. MCF sales forecasts (gas); 16. Toll and access forecast of number of calls and number of minutes (telephone); and 17. A detailed explanation of any other information provided.	Christopher M. Jacobi John A. Verderame Benjamin W. B. Passty
1	29	807 KAR 5:001 Section 16(7)(i)	Most recent FERC or FCC audit reports.	Danielle L. Weatherston
1	30	807 KAR 5:001 Section 16(7)(j)	Prospectuses of most recent stock or bond offerings.	Christopher M. Jacobi
1	31	807 KAR 5:001 Section 16(7)(k)	Most recent FERC Form 1 (electric), FERC Form 2 (gas), or PSC Form T (telephone).	Danielle L. Weatherston
2	32	807 KAR 5:001 Section 16(7)(l)	Annual report to shareholders or members and statistical supplements for the most recent 2 years prior to application filing date.	Christopher M. Jacobi
3	33	807 KAR 5:001 Section 16(7)(m)	Current chart of accounts if more detailed than Uniform System of Accounts charts.	Danielle L. Weatherston
3	34	807 KAR 5:001 Section 16(7)(n)	Latest 12 months of the monthly managerial reports providing financial results of operations in comparison to forecast.	Danielle L. Weatherston
3	35	807 KAR 5:001 Section 16(7)(o)	Complete monthly budget variance reports, with narrative explanations, for the 12 months prior to base period, each month of base period, and subsequent months, as available.	Danielle L. Weatherston Christopher M. Jacobi
3-9	36	807 KAR 5:001 Section 16(7)(p)	SEC's annual report for most recent 2 years, Form 10-Ks and any Form 8-Ks issued during prior 2 years and any Form 10-Qs issued during past 6 quarters.	Danielle L. Weatherston
9	37	807 KAR 5:001 Section 16(7)(q)	Independent auditor's annual opinion report, with any written communication which indicates the existence of a material weakness in internal controls.	Danielle L. Weatherston
9	38	807 KAR 5:001 Section 16(7)(r)	Quarterly reports to the stockholders for the most recent 5 quarters.	Christopher M. Jacobi

10	39	807 KAR 5:001 Section 16(7)(s)	Summary of latest depreciation study with schedules itemized by major plant accounts, except that telecommunications utilities adopting PSC's average depreciation rates shall identify current and base period depreciation rates used by major plant accounts. If information has been filed in another PSC case, refer to that case's number and style.	John J. Spanos
10	40	807 KAR 5:001 Section 16(7)(t)	List all commercial or in-house computer software, programs, and models used to develop schedules and work papers associated with application. Include each software, program, or model; its use; identify the supplier of each; briefly describe software, program, or model; specifications for computer hardware and operating system required to run program	Sarah E. Lawler
10	41	807 KAR 5:001 Section 16(7)(u)	If utility had any amounts charged or allocated to it by affiliate or general or home office or paid any monies to affiliate or general or home office during the base period or during previous 3 calendar years, file: 1. Detailed description of method of calculation and amounts allocated or charged to utility by affiliate or general or home office for each allocation or payment; 2. method and amounts allocated during base period and method and estimated amounts to be allocated during forecasted test period; 3. Explain how allocator for both base and forecasted test period was determined; and 4. All facts relied upon, including other regulatory approval, to demonstrate that each amount charged, allocated or paid during base period is reasonable.	Jeffrey R. Setser
10	42	807 KAR 5:001 Section 16(7)(v)	If gas, electric or water utility with annual gross revenues greater than \$5,000,000, cost of service study based on methodology generally accepted in industry and based on current and reliable data from single time period.	James E. Ziolkowski
10	43	807 KAR 5:001 Section 16(7)(w)	Local exchange carriers with fewer than 50,000 access lines need not file cost of service studies, except as specifically directed by PSC. Local exchange carriers with more than 50,000 access lines shall file: 1. Jurisdictional separations study consistent with Part 36 of the FCC's rules and regulations; and 2. Service specific cost studies supporting pricing of services generating annual revenue greater than \$1,000,000 except local exchange access: a. Based on current and reliable data from single time period; and b. Using generally recognized fully allocated, embedded, or incremental cost principles.	N/A
10	44	807 KAR 5:001 Section 16(8)(a)	Jurisdictional financial summary for both base and forecasted periods detailing how utility derived amount of requested revenue increase.	Sarah E. Lawler

10	45	807 KAR 5:001 Section 16(8)(b)	Jurisdictional rate base summary for both base and forecasted periods with supporting schedules which include detailed analyses of each component of the rate base.	Sarah E. Lawler Melissa B. Abernathy Christopher M. Jacobi John R. Panizza James E. Ziolkowski Danielle L. Weatherston
10	46	807 KAR 5:001 Section 16(8)(c)	Jurisdictional operating income summary for both base and forecasted periods with supporting schedules which provide breakdowns by major account group and by individual account.	Sarah E. Lawler
10	47	807 KAR 5:001 Section 16(8)(d)	Summary of jurisdictional adjustments to operating income by major account with supporting schedules for individual adjustments and jurisdictional factors.	Sarah E. Lawler Melissa B. Abernathy Christopher M. Jacobi James E. Ziolkowski
10	48	807 KAR 5:001 Section 16(8)(e)	Jurisdictional federal and state income tax summary for both base and forecasted periods with all supporting schedules of the various components of jurisdictional income taxes.	John R. Panizza
10	49	807 KAR 5:001 Section 16(8)(f)	Summary schedules for both base and forecasted periods (utility may also provide summary segregating items it proposes to recover in rates) of organization membership dues; initiation fees; expenditures for country club; charitable contributions; marketing, sales, and advertising; professional services; civic and political activities; employee parties and outings; employee gifts; and rate cases.	Sarah E. Lawler
10	50	807 KAR 5:001 Section 16(8)(g)	Analyses of payroll costs including schedules for wages and salaries, employee benefits, payroll taxes, straight time and overtime hours, and executive compensation by title.	Sarah E. Lawler Renee H. Metzler
10	51	807 KAR 5:001 Section 16(8)(h)	Computation of gross revenue conversion factor for forecasted period.	Sarah E. Lawler
10	52	807 KAR 5:001 Section 16(8)(i)	Comparative income statements (exclusive of dividends per share or earnings per share), revenue statistics and sales statistics for 5 calendar years prior to application filing date, base period, forecasted period, and 2 calendar years beyond forecast period.	Danielle L. Weatherston Christopher M. Jacobi
10	53	807 KAR 5:001 Section 16(8)(j)	Cost of capital summary for both base and forecasted periods with supporting schedules providing details on each component of the capital structure.	Christopher M. Jacobi
10	54	807 KAR 5:001 Section 16(8)(k)	Comparative financial data and earnings measures for the 10 most recent calendar years, base period, and forecast period.	Melissa B. Abernathy Christopher M. Jacobi Danielle L. Weatherston
10	55	807 KAR 5:001 Section 16(8)(l)	Narrative description and explanation of all proposed tariff changes.	Jeff L. Kern
10	56	807 KAR 5:001 Section 16(8)(m)	Revenue summary for both base and forecasted periods with supporting schedules which provide detailed billing analyses for all customer classes.	Jeff L. Kern
10	57	807 KAR 5:001 Section 16(8)(n)	Typical bill comparison under present and proposed rates for all customer classes.	Jeff L. Kern
10	58	807 KAR 5:001 Section 16(9)	The commission shall notify the applicant of any deficiencies in the application within thirty (30) days of the application's submission. An application shall not be accepted for filing until the utility has cured all noted deficiencies.	William Don Wathen, Jr.

10	59	807 KAR 5:001 Section 16(10)	Request for waivers from the requirements of this section shall include the specific reasons for the request. The commission shall grant the request upon good cause shown by the utility.	Legal
10	60	807 KAR 5:001 Section (17)(1)	<p>(1) Public postings.</p> <p>(a) A utility shall post at its place of business a copy of the notice no later than the date the application is submitted to the commission.</p> <p>(b) A utility that maintains a Web site shall, within five (5) business days of the date the application is submitted to the commission, post on its Web sites:</p> <ol style="list-style-type: none"> 1. A copy of the public notice; and 2. A hyperlink to the location on the commission's Web site where the case documents are available. <p>(c) The information required in paragraphs (a) and (b) of this subsection shall not be removed until the commission issues a final decision on the application.</p>	Amy B. Spiller
10	61	807 KAR 5:001 Section 17(2)	<p>(2) Customer Notice.</p> <p>(a) If a utility has twenty (20) or fewer customers, the utility shall mail a written notice to each customer no later than the date on which the application is submitted to the commission.</p> <p>(b) If a utility has more than twenty (20) customers, it shall provide notice by:</p> <ol style="list-style-type: none"> 1. Including notice with customer bills mailed no later than the date the application is submitted to the commission; 2. Mailing a written notice to each customer no later than the date the application is submitted to the commission; 3. Publishing notice once a week for three (3) consecutive weeks in a prominent manner in a newspaper of general circulation in the utility's service area, the first publication to be made no later than the date the application is submitted to the commission; or 4. Publishing notice in a trade publication or newsletter delivered to all customers no later than the date the application is submitted to the commission. <p>(c) A utility that provides service in more than one (1) county may use a combination of the notice methods listed in paragraph (b) of this subsection.</p>	Amy B. Spiller

10	62	807 KAR 5:001 Section 17(3)	<p>(3) Proof of Notice. A utility shall file with the commission no later than forty-five (45) days from the date the application was initially submitted to the commission:</p> <p>(a) If notice is mailed to its customers, an affidavit from an authorized representative of the utility verifying the contents of the notice, that notice was mailed to all customers, and the date of the mailing;</p> <p>(b) If notice is published in a newspaper of general circulation in the utility's service area, an affidavit from the publisher verifying the contents of the notice, that the notice was published, and the dates of the notice's publication; or</p> <p>(c) If notice is published in a trade publication or newsletter delivered to all customers, an affidavit from an authorized representative of the utility verifying the contents of the notice, the mailing of the trade publication or newsletter, that notice was included in the publication or newsletter, and the date of mailing.</p>	Amy B. Spiller
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10	63	807 KAR 5:001 Section 17(4)	<p>(4) Notice Content. Each notice issued in accordance with this section shall contain:</p> <p>(a) The proposed effective date and the date the proposed rates are expected to be filed with the commission;</p> <p>(b) The present rates and proposed rates for each customer classification to which the proposed rates will apply;</p> <p>(c) The amount of the change requested in both dollar amounts and percentage change for each customer classification to which the proposed rates will apply;</p> <p>(d) The amount of the average usage and the effect upon the average bill for each customer classification to which the proposed rates will apply, except for local exchange companies, which shall include the effect upon the average bill for each customer classification for the proposed rate change in basic local service;</p> <p>(e) A statement that a person may examine this application at the offices of (utility name) located at (utility address);</p> <p>(f) A statement that a person may examine this application at the commission's offices located at 211 Sower Boulevard, Frankfort, Kentucky, Monday through Friday, 8:00 a.m. to 4:30 p.m., or through the commission's Web site at http://psc.ky.gov;</p> <p>(g) A statement that comments regarding the application may be submitted to the Public Service Commission through its Web site or by mail to Public Service Commission, Post Office Box 615, Frankfort, Kentucky 40602;</p> <p>(h) A statement that the rates contained in this notice are the rates proposed by (utility name) but that the Public Service Commission may order rates to be charged that differ from the proposed rates contained in this notice;</p> <p>(i) A statement that a person may submit a timely written request for intervention to the Public Service Commission, Post Office Box 615, Frankfort, Kentucky 40602, establishing the grounds for the request including the status and interest of the party; and</p> <p>(j) A statement that if the commission does not receive a written request for intervention within thirty (30) days of initial publication or mailing of the notice, the commission may take final action on the application.</p>	Jeff L. Kern
10	64	807 KAR 5:001 Section 17(5)	(5) Abbreviated form of notice. Upon written request, the commission may grant a utility permission to use an abbreviated form of published notice of the proposed rates, provided the notice includes a coupon that may be used to obtain all the required information.	N/A

11	-	807 KAR 5:001 Section 16(8)(a) through (k)	Schedule Book (Schedules A-K)	Various
12	-	807 KAR 5:001 Section 16(8)(l) through (n)	Schedule Book (Schedules L-N)	Jeff L. Kern
13	-	-	Work Papers	Various
14	-	807 KAR 5:001 Section 16(7)(a)	Testimony (Volume 1 of 4)	Various
15	-	807 KAR 5:001 Section 16(7)(a)	Testimony (Volume 2 of 4)	Various
16	-	807 KAR 5:001 Section 16(7)(a)	Testimony (Volume 3 of 4)	Various
17	-	807 KAR 5:001 Section 16(7)(a)	Testimony (Volume 4 of 4)	Various
18-19	-	KRS 278.2205(6)	Cost Allocation Manual	Legal

**DUKE ENERGY KENTUCKY
CASE NO. 2019-00271
FORECASTED TEST PERIOD FILING REQUIREMENTS
FR 16(7)(I)**

807 KAR 5:001, SECTION 16(7)(I)

Description of Filing Requirement:

Annual report to shareholders, or members, and statistical supplements covering the two (2) most recent years from the utility's application filing date.

Response:

Attached are the Annual Reports to Shareholders and Duke Energy Kentucky's audited financial statements for the years ended December 2017 and 2018.

Witness Responsible: Christopher M. Jacobi



BUILDING A **SMARTER** ENERGY FUTURESM



Lynn J. Good / Chairman, President and Chief Executive Officer

2017: A Year of Achievement

Dear Shareholder:

In a year with [record-setting storms](#), policy shifts and a dynamic regulatory environment, our ability to deliver on our promises was tested repeatedly. Time after time, we delivered for our customers and shareholders.

Today's Duke Energy is built to execute in years like these – proving our agility and commitment to our strategic vision.

With our [portfolio transition](#) complete, we operated in 2017 as a domestic, regulated energy infrastructure business with a clear growth plan. We shared our [long-term aspirations](#) on how we will [invest in our grid](#), [in cleaner energy](#) and [natural gas infrastructure](#) while improving customer satisfaction and modernizing regulatory constructs.

Over the course of the year, we made strong progress and built momentum for the future.

We announced our [Power/Forward Carolinas](#) grid modernization initiative and received approvals for the Atlantic Coast Pipeline. Our nuclear fleet continued to provide carbon-free, 24/7 power and, when combined with our renewable and natural gas investments, helped deliver affordable, clean energy to customers. And, we worked with stakeholders to create more modern regulatory constructs.

Meanwhile, our plants set [performance records](#) while our workforce continued to set the industry standard for safety and operational excellence. We also implemented innovative ways to run our company more efficiently, helping us deliver [strong financial results](#) while continuing to grow our dividend.

Progress like this was driven, as always, by our sense of responsibility to customers. That was especially true during Hurricane Irma – a historic storm that left millions without power in Florida and the Carolinas.

2017 was a strong year for Duke Energy. In this letter, you'll read more about our results. It's a story of resilience, determination and customer focus as our 29,000 employees continue to create a smarter energy future.

Meeting Our Financial Commitments

We entered 2017 with financial strength and continued to deliver positive results.

Our [adjusted diluted earnings](#) per share were \$4.57 – near the midpoint of our full-year guidance range. This result was supported by growth from our investments in our electric and natural gas businesses, including the full-year earnings contribution from Piedmont Natural Gas.

We reduced operation and maintenance costs in response to unfavorable weather early in the year and plan to keep these costs flat through 2022. Our efforts to instill cost agility and use new technology, without impacting operations, remain critical to our plans to grow and deliver strong financial results.

And 2018 marks the 92nd consecutive year we have paid a [quarterly dividend](#) – a hallmark pledge to our investors – and we remain committed to maintaining our annual dividend growth in line with earnings growth.

Last year, total shareholder return was 13.0 percent compared to 12.8 percent for the Philadelphia Utility Index. Utility share prices came under pressure in late 2017, and that continued in early 2018 due to rising interest rates and the impact of federal tax reform.

Tax reform provides our company a unique opportunity. It will allow us to reduce customer bills in the near term while also helping offset the cost of future investments. This ensures our customers receive the full benefit of the new law, which we support.

However, those customer benefits initially put pressure on our balance sheet. Therefore, across our states, we are working with regulators to [propose a variety of solutions](#) that balance returning savings to customers while preserving the financial strength of our utilities, which also benefits customers. Additionally, we took steps to support our balance sheet and fund our capital program given that the positive effects of tax reform on our business will take time to manifest.

This February, we announced our [2018 adjusted diluted earnings guidance range](#) of \$4.55 to \$4.85 per share. Our long-term growth rate remains at 4 to 6 percent, underpinned by our commitment to deliver strong results on [our \\$37 billion growth capital plan](#) over the next five years.

Duke Energy remains a premier, long-term investment due to our attractive dividend yield and low-risk earnings growth. Last year proved that we can respond to challenges and deliver on our strategy to continue returning value to our investors.

Executing Our Strategy

In 2017, we unveiled our [10-year vision](#) to modernize the grid, generate cleaner energy and expand our natural gas infrastructure while improving customer satisfaction and modernizing regulatory constructs through stakeholder engagement. And we spent the past year executing on it.



Tax reform provides our company a unique opportunity. It will allow us to reduce customer bills in the near term while also helping offset the cost of future investments.



Zach Sipes / Distribution Line Technician

Modernizing the Energy Grid

The [energy grid](#) powers nearly every part of our society. It powers lives and livelihoods, and serves as the foundation for transforming our customers' experience.

However, in some respects, the grid operates nearly the same as it did a century ago – as a [one-way road](#) sending electricity from power plants to customers. We are now at a turning point. With the right investments in technology, the grid can deliver more flexibility and functionality to our customers.

Last year, we announced a [\\$25 billion investment](#) to make our grid smarter, greener and more capable. So far, we've deployed [smart meters](#) to more customers, installed grid optimization technology and used data analytics to identify power lines to move underground.

Forty percent of our customers have [smart meters](#) – a key technology that enables more control for our customers. In 2017, we installed 1.2 million

meters and plan to install an additional 1.4 million meters in 2018, focusing deployments in the Carolinas and the Midwest.

Last year, we hardened the grid, making it more [resilient to storms and security threats](#). Already, we have made significant strides in Indiana and our Duke Energy Carolinas service territory. In 2018, we will begin major hardening and resiliency activities in Florida, Kentucky and our Duke Energy Progress service territory.

Our [self-healing technology](#) investments help improve reliability by detecting and rerouting power when a problem occurs. We have avoided more than 1.2 million power interruptions and saved customers 162 million outage minutes. As we continue to self-optimize our grid, we'll reduce more outages as intelligent systems and grid automation work together to reconfigure our system.



Forty percent of our customers have smart meters – a key technology that enables more control for our customers.

Our goal is to have 80 percent of customers serviced by a self-optimizing grid in the next decade.

In 2017, we used analytics to identify power lines that experience excessive power outages and require significant resources to maintain. We plan to move these lines underground to improve customers' experiences and make power restoration activities more efficient. The program will launch in Ohio, the Carolinas and Florida in 2018, with plans to deploy in Kentucky in 2019.

We have a call to action to deliver more reliable electricity and new services. Our investments in a more [intelligent, resilient grid](#) underpin our plans to meet customers' evolving needs.

Transforming the Customer Experience

In today's economy, customer expectations are set by innovators who create a personal connection, often through seamless digital and mobile capabilities. They make it easy to do business, giving customers the information they want – when and how they want it.

To meet these new expectations, we're building on [our grid modernization efforts](#) to transform the customer experience.

In 2017, we focused on providing our customers more information and options – including usage and [outage alerts](#), along with pick your own due date features. Many of these options were enabled by [smart meters](#).

We've also invested in a new customer information system – the backbone that allows us to tailor services for customers – and we look forward to advancing this project in 2018. And we began developing a mobile app to give customers personalized updates, more control and new ways to communicate with us.

Our customer-centric focus resulted in improved customer satisfaction. Our J.D. Power residential customer satisfaction scores improved compared to 2016 in all jurisdictions. Our goal is to move

the company into the top quartile, and our 2017 results show we are on the right track.

Customers want an experience that is consistent, individualized and responsive, and that's what we are focused on delivering.

Generating Cleaner Energy

We have a long-standing commitment to the environment and to lowering our carbon emissions – with results that prove it.

In April, we announced a new carbon emissions target. By 2030, we plan to reduce our carbon emissions by [40 percent from our 2005 levels](#).

To help us meet [this goal](#), we're targeting [\\$11 billion in investments](#) in natural gas generation and expanding our renewables portfolio.

Construction of our combined-cycle, natural gas-fired generation projects – W.S. Lee, Citrus County and Western Carolinas – continues to progress. The W.S. Lee project is near final commissioning and our Citrus County and Western Carolinas projects remain on track to begin commercial operation in 2018 and 2019, respectively.

Our natural gas generation complements our [expanding renewables portfolio](#). More and more, customers are looking at renewable energy to meet sustainability goals and provide cost-effective power.

Duke Energy is one of the nation's top renewable energy investors. We own more than 800 megawatts of solar power capacity and plan to procure more than 3,000 megawatts over the next five years. We also own and operate 2,300 megawatts of [wind power](#) and operate about 1,700 megawatts of [wind facilities](#) for third parties, including the first [U.S. offshore wind project](#).

In 2017, we connected [500 megawatts of new solar energy](#) in North Carolina, helping the state remain second in the nation for solar capacity. In addition, Duke Energy Kentucky entered the solar



Anthony Alston / Solar Technician / Kathleen Alexandridis / Engineer



Duke Energy is one of the nation's top renewable energy investors. We own more than 800 megawatts of solar power capacity and plan to procure more than 3,000 megawatts over the next five years.

market in 2017 as we [announced three projects](#) to bring customers 6.8 megawatts of solar energy.

In August, our commercial renewables business acquired the [Shoreham Solar Commons](#) project in New York, one of the state's largest solar projects. We announced our partnership with the Indiana National Guard to install battery storage and solar panels at [Camp Atterbury](#). We also announced a \$30 million investment to install the [two largest battery energy storage systems](#) in North Carolina.

Moving forward, we see new growth opportunities. In North Carolina, new legislation will lead to an additional 2,600 megawatts of competitively priced solar for the state. In [Florida](#), we plan to add [700 megawatts of utility-scale solar](#) as well as up to [50 megawatts of energy storage](#).

We are committed to a cleaner energy future, and we will continue our investments to deliver on it.

Building Our Natural Gas Infrastructure

October 2017 was the one-year anniversary of our [Piedmont Natural Gas](#) acquisition – one of the country's [most trusted utility brands](#). Already, we've seen the strength of our combined company.

We will continue to leverage Piedmont's expertise as we expand our natural gas infrastructure, doubling this segment's earnings contribution to [15 percent](#) in the next decade.

We are using overlap between our electric and natural gas businesses to better serve customers. In the past year, we announced dual-fuel projects at our Rogers, Belews Creek and Marshall Steam stations – a \$500 million investment that will reduce our carbon emissions and increase our flexibility to manage fuel costs.

Our midstream pipeline business is critical to serving customers, and we made significant progress in 2017.



Mill Creek Combustion Turbine Station / Cherokee County, SC

The Federal Energy Regulatory Commission (FERC) issued the final Environmental Impact Statement (EIS) in July for our [Atlantic Coast Pipeline](#) project, followed by the [final project certificate in October](#). In addition, we obtained water and air permits from West Virginia, Virginia and North Carolina. We began construction of this 600-mile pipeline in January 2018, staying on track for a late 2019 in-service date.

The [Sabal Trail pipeline](#) achieved commercial operation in July 2017, and it will serve our Citrus County combined-cycle natural gas plant in Florida when it comes online. A federal appeals court ordered FERC to review the project's EIS and in September, FERC issued a supplemental EIS, which is now final. In March 2018, FERC requested and the federal appeals court approved additional time to issue a new FERC order for the project. Sabal Trail anticipates normal pipeline operations will continue as it monitors any impact from this process.

Despite permitting challenges with our Constitution pipeline in New York, we remain committed to this project and the affordable natural gas it can bring to customers in the Northeast.

[Natural gas](#) is an important resource for the United States and one of the industry's greatest disrupters. Our expanding natural gas infrastructure will help us bring this lower-carbon fuel to more customers.

Engaging Stakeholders

2017 highlighted the value of stakeholder engagement in providing the best possible service to our customers and communities.

One of our long-term goals remains to modernize regulatory constructs in all of our jurisdictions, ensuring our ability to recover investments matches how we're investing in smarter energy solutions.

In Florida, the Public Service Commission [unanimously approved a settlement agreement](#) that extends our current multiyear rate plan to 2021. It includes nearly [\\$6 billion of investments](#), including solar energy, smart meters and grid modernization projects. In addition, the agreement provides for modern investment recovery while minimizing affects to customer bills.

We also worked with the Public Service Commission to apply federal tax reform savings toward [storm costs from Hurricane Irma](#), helping avoid customer rate increases.

In North Carolina, we worked with stakeholders and legislators to support [legislation](#), as mentioned earlier, that better positions the state for solar growth. The outcome was the product of years of work, and it sets a model for how we can pursue constructive outcomes.

We made progress working with our state commissions as we pursued [traditional rate cases](#) to recover investments while keeping rates affordable. And we established jurisdictional advisory councils to create dialogue that informs our business strategies.

To succeed, we need support from stakeholders who are willing to work together. In 2018 and beyond, we will continue to pursue solutions that make sense for customers and investors.

Constant Focus on Operational Excellence

Excellent operational performance is the linchpin for delivering on our financial, safety and environmental goals.

The ability to maintain the reliability of our fleet and grid in a safe and sustainable manner, while also preparing for emerging threats, directly influences relationships with customers and regulators, credibility with investors, and our reputation with stakeholders.

We continued to demonstrate our commitment to [safety](#) as a core principle. We improved our [industry-leading performance from 2016](#), further reducing our total incident case rate and OSHA-reportable employee safety incidents. As we integrated Piedmont Natural Gas, we've seen strong improvement in their safety performance, reducing incidents by 60 percent in the past year.

Safety is critical to maintaining reliable operations. Once again, our generation fleet delivered strong reliability metrics. Our nuclear fleet's [capacity factor](#) was 95.6 percent – nearly breaking

the company record set in 2016. With this performance, 2017 was the 19th consecutive year our capacity factor has been above 90 percent.

Our McGuire, Oconee and Brunswick nuclear stations achieved records for days of consecutive operations – with Oconee setting a new company record at 716 days. We also delivered strong refueling outage results, completing six outages almost 17 days ahead of our planned outage duration.

Our fossil/hydro organization continued to find flexible solutions while delivering reliable operations. In June, we announced an expansion at our [Lincoln Combustion Turbine Station](#), installing highly efficient natural gas turbines that deliver approximately 400 megawatts of peaking energy. This project offers significant cost savings to our customers and complements our renewable resources while lowering carbon emissions. In addition, [our Edwardsport gasified-coal plant](#) set continuous operation records and improved gasifier availability.

We delivered this performance while responding to record weather. In September, Hurricane Irma caused widespread damage across the Southeast. Our employees worked tirelessly to rebuild our system and restored power to 99 percent of affected customers in eight days.

But we also pride ourselves on identifying opportunities to improve. We were disappointed with aspects of our storm response, including communications on estimated times of restoration and the performance of certain outage-related systems. We have already taken steps to address these issues to serve customers better in the future.



We improved our industry-leading performance from 2016, further reducing our total incident case rate and OSHA-reportable employee safety incidents.



Last year, the Duke Energy Foundation donated more than \$33 million in charitable gifts to local organizations, and our employees and retirees volunteered over 115,000 hours.

To help those affected by hurricanes Irma, Harvey and Maria, our company matched employee and retiree donations for relief efforts, totaling more than \$225,000. And in early 2018, more than 200 employees volunteered to restore power to Puerto Rico following the devastation of Hurricane Maria.

In 2017, we showed our ongoing commitment to [environmental stewardship](#) as we [reduced reportable events](#) for the third straight year. We also made progress in [closing coal ash basins](#). Our basin excavation projects remained on track with over 7 million tons of ash removed last year, exceeding our goal. Across the system, scientific and engineering work continues to guide closure solutions. In addition, we announced [a third coal ash reprocessing location](#), which will make ash [suitable for use in concrete](#).

Our commitment to a cleaner, more sustainable energy future is evident by Duke Energy being named to the [Dow Jones Sustainability Index](#) for the 12th consecutive year. This continued recognition is underpinned by our unwavering focus on safety and operational excellence.

Engaging Employees and Creating Stronger Communities

We're also doing our part to support the [communities we serve](#) – and the places our 29,000 employees call home.

We're proud to work with communities and leaders to attract jobs and [economic development](#), continuing to strengthen our states. Last year, Duke Energy attracted \$5.9 billion in capital investment, helping create over 12,000 jobs.

For the 13th consecutive year, we were named to Site Selection magazine's annual list of [Top 10 Utilities in Economic Development](#).

But as we focus on creating jobs and attracting investments, we're just as focused on building and nurturing a diverse workforce that's ready to power our communities.

Last year, the [Duke Energy Foundation](#) donated more than \$33 million in charitable gifts to local organizations, and our employees and retirees volunteered over 115,000 hours. Our philanthropic investments continue to focus on [STEM](#) education and [workforce development](#), the [environment](#) and [community impact](#).

We believe workforce development starts as early as possible, and that's why our investments span [kindergarten](#) through [career](#).

In Florida, we invested in [Lake Sumter State College's](#) energy technology programs, which train workers for in-demand energy industry jobs. In North Carolina, we worked with the Urban League of Central Carolinas to develop an eight-week course for students interested in entry-level utility positions.

As we develop the next generation of leaders, we need to be prepared for what's next. [Our employees](#) provide a competitive advantage as we transform to meet tomorrow's challenges. But like our business, our [workforce must evolve](#). This will require us to attract and retain diverse viewpoints.

[Diversity](#) is more than just race and gender. It's a mix of different points of view, work and life experiences, perspectives and cultures.



Joel Gonzalez / Distribution Line Technician

Last year, I signed the [CEO Action Pledge for Diversity and Inclusion](#), the largest CEO-driven business commitment to advance diversity and inclusion. We've launched [unconscious bias training](#) and created platforms for employees to have [difficult conversations](#) on issues impacting our communities. Duke Energy also received a perfect score from the [Human Rights Campaign](#) for our LGBT-friendly corporate practices and policies.

In the year ahead, we want to attract more diverse candidates. In particular, we're [committed to hiring veterans](#) – who possess the training and leadership qualities that transfer to our business. Last year, we hired 400 veterans and plan to fill 12 percent of our open positions with veterans moving forward.

The vitality of our communities and workforce is at the heart of our mission. Their strength will continue to be a priority for Duke Energy, as it has been for the past 114 years.

Building A Smarter Energy FutureSM

This year's annual report is my fifth as CEO. I'm proud of how far we've come in transforming our company and how we have responded to our customers' needs. And others see this progress too as Duke Energy was named to Fortune magazine's 2018 list of the [World's Most Admired Companies](#).

Awards like this are gratifying, but we know our work continues. That's why we're embracing change to continue delivering on our [purpose](#): to power the lives of our customers and vitality of our communities.

Few companies are more closely aligned with making a positive contribution to the economy and society. Our company is engaged on so many important policy issues – from the [environment](#) to [tax reform](#), [renewable energy](#), [corporate philanthropy](#), [diversity](#) and more – and we're pushing forward to find the right solutions.

The success of our company is inextricably linked with the [communities we serve](#). It's this spirit of engagement, collaboration and responsibility that has defined our success – and will continue to in the future.

As I look back on 2017, I remain as confident as ever in our vision for a smarter energy future and the strategy we're executing to get there.

Lynn J. Good
Chairman, President and Chief Executive Officer

March 9, 2018

Annual Meeting of Shareholders

Duke Energy's 2018 Annual Meeting of Shareholders will be:

Date: May 3, 2018

Time: 12:30 p.m. Eastern time

Visit: duke-energy.onlineshareholdermeeting.com

Audio broadcast: [800.239.9838](tel:800.239.9838)
conference number [7668330](tel:7668330)

To participate in the online Annual Meeting, shareholders will need the 16-digit control number included in the Notice of Internet Availability of the Proxy Materials, on the proxy card and on the instructions that accompanied your proxy materials.

Shareholder Services

Shareholders may call [800.488.3853](tel:800.488.3853) or [704.382.3853](tel:704.382.3853) with questions about their stock accounts, legal transfer requirements, address changes or replacement dividend checks. Additionally, registered shareholders can view their account online through DUK-Online, available at duke-energy.com/investors. Send written requests to:

Investor Relations
Duke Energy
P.O. Box 1005
Charlotte, NC 28201

For electronic correspondence, visit duke-energy.com/investors.

Stock Exchange Listing

Duke Energy's common stock is listed on the New York Stock Exchange. The Corporation's common stock trading symbol is DUK.

Website Addresses

Corporate home page: duke-energy.com
Investor Relations: duke-energy.com/investors

InvestorDirect Choice Plan

The InvestorDirect Choice Plan provides a simple and convenient way to purchase common stock directly through the Corporations, without incurring brokerage fees. Purchases may be made weekly. Bank drafts for monthly purchases, as well as a safekeeping option for depositing certificates into the plan, are available.

The plan also provides for full reinvestment, direct deposit or cash payment of a portion of the dividends. Additionally, participants may register for DUK-Online, our online account management service.

Financial Publications

Duke Energy's Annual Report and related financial publications can be found on our website at duke-energy.com/investors. Printed copies are also available free of charge upon request.

Duplicate Mailings

If your shares are registered in different accounts, you may receive duplicate mailings of annual reports, proxy statements and other shareholder information. Call Investor Relations for instructions on eliminating duplications or combining your accounts.

Transfer Agent and Registrar

Duke Energy maintains shareholder records and acts as transfer agent and registrar for the Corporation's common stock.

Dividend Payment

Duke Energy has paid quarterly cash dividends on its common stock for 92 consecutive years. For the remainder of 2018, dividends on common stock are expected to be paid, subject to declaration by the Board of Directors, on [June 18](#), [September 17](#) and [December 17](#).

Bond Trustee

If you have questions regarding your bond account, call [800.254.2826](tel:800.254.2826), or write to:

The Bank of New York Mellon
Global Trust Services
101 Barclay Street – 21st Floor
New York, NY 10286

Send Us Feedback

We welcome your opinion on this annual report. Please visit duke-energy.com/investors, where you can view and provide feedback on both the print and online versions of this report or contact Investor Relations directly. Duke Energy is an equal opportunity employer. This report is published solely to inform shareholders and is not to be considered an offer, or the solicitation of an offer, to buy or sell securities.

Our Financial Highlights^a

(In millions, except per share amounts)

Operating Results

	2017	2016 ^b	2015 ^b
Total operating revenues	\$23,565	\$22,743	\$22,371
Income from continuing operations	\$3,070	\$2,578	\$2,654
Net income	\$3,064	\$2,170	\$2,831

Cash Flow Data

Net cash provided by operating activities	\$6,634	\$6,817	\$6,700
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Common Stock Data

Shares of common stock outstanding			
Year-end	700	700	688
Weighted average – basic and diluted	700	691	694
Reported diluted earnings per share (GAAP)	\$4.36	\$3.11	\$4.05
Adjusted diluted earnings per share (non-GAAP)	\$4.57	\$4.69	\$4.54
Dividends declared per share	\$3.49	\$3.36	\$3.24

Balance Sheet Data

Total assets	\$137,914	\$132,761	\$121,156
Long-term debt including capital leases, less current maturities	\$49,035	\$45,576	\$36,842
Total Duke Energy Corporation stockholders' equity	\$41,739	\$41,033	\$39,727

Earnings Per Share

(in dollars) ■ Reported Diluted ■ Adjusted Diluted



Dividends Declared Per Share (in dollars)



Capital and Investment Expenditures (dollars in billions)



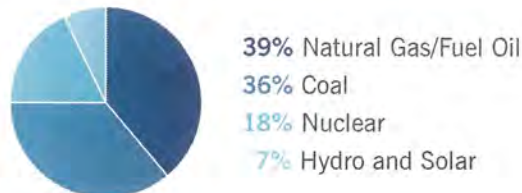
^aSignificant transactions reflected in the results above include: (i) the sale of the International Disposal Group in 2016, including a loss on sale recorded within discontinued operations (see Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions"); (ii) the acquisition of Piedmont in 2016, including losses on interest rate swaps related to the acquisition financing (see Note 2); and (iii) costs to achieve mergers in all periods.

^bPrior year data has been recast to reflect the classification of the International Disposal Group as discontinued operations and to reflect the impacts of new accounting standards.

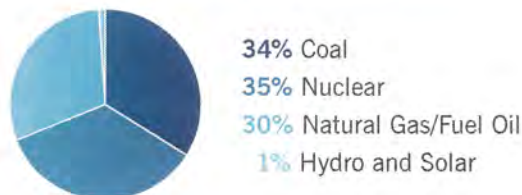
Duke Energy At A Glance

Electric Utilities and Infrastructure

Generation Diversity (percent owned capacity)¹



Generated (net output gigawatt-hours (GWh))²



Customer Diversity (in billed GWh sales)³



Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio.

Electric Operations

- Owns approximately 49,500 megawatts (MW) of generating capacity
- Service area covers about 95,000 square miles with an estimated population of 24 million
- Service to approximately 7.6 million residential, commercial and industrial customers
- 277,100 miles of distribution lines and a 31,900-mile transmission system

¹As of December 31, 2017. | ²For the year ended December 31, 2017.

Natural Gas Customer Diversity

Gas Utilities and Infrastructure conducts natural gas distribution operations primarily through the regulated public utilities of Piedmont Natural Gas and Duke Energy Ohio.

Natural Gas Operations (throughput)⁴



- Regulated natural gas transmission and distribution services to approximately 1.5 million customers in the Carolinas, Tennessee, southwestern Ohio and Northern Kentucky
- Maintains more than 33,100 miles of natural gas transmission and distribution pipelines and 27,400 miles of natural gas service pipelines

Duke Energy Renewables

Generation Diversity (percent owned capacity)⁵



Duke Energy Renewables primarily acquires, develops, builds and operates wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage assets.

Duke Energy Renewables, part of the Commercial Renewables business segment, includes utility-scale wind and solar generation assets that total 2,907 MW across 14 states from 21 wind and 63 solar projects. The power produced from renewable generation is primarily sold through long-term contracts to utilities, electric cooperatives, municipalities and commercial and industrial customers.

As part of its growth strategy, Duke Energy Renewables has expanded its investment portfolio through the addition of distributed solar companies and projects, energy storage systems and energy management solutions specifically tailored to commercial businesses and other institutions.

DUKE ENERGY
CORPORATION

2017
Form 10-K/A

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 WASHINGTON, D.C. 20549
 FORM 10-K/A

Amendment No. 1

(Mark One)
 ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
 TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal period ended December 31, 2017 or
 For the transition period from _____ to _____

Commission file number _____ Registrant, State of Incorporation or Organization, Address of Principal Executive Offices and Telephone Number _____ IRS Employer Identification No. _____



1-32853 **DUKE ENERGY CORPORATION** 20-2777218
 (a Delaware corporation) 550 South Tryon Street
 Charlotte, NC 28202-1803 704-382-3853

Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number	Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number
1-4928	DUKE ENERGY CAROLINAS, LLC (a North Carolina limited liability company) 526 South Church Street Charlotte, North Carolina 28202-1803 704-382-3853 56-0205520	1-3274	DUKE ENERGY FLORIDA, LLC (a Florida limited liability company) 299 First Avenue North St. Petersburg, Florida 33701 704-382-3853 59-0247770
1-15929	PROGRESS ENERGY, INC. (a North Carolina corporation) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-2155481	1-1232	DUKE ENERGY OHIO, INC. (an Ohio corporation) 139 East Fourth Street Cincinnati, Ohio 45202 704-382-3853 31-0240030
1-3382	DUKE ENERGY PROGRESS, LLC (a North Carolina limited liability company) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-0165465	1-3543	DUKE ENERGY INDIANA, LLC (an Indiana limited liability company) 1000 East Main Street Plainfield, Indiana 46168 704-382-3853 35-0594457
1-6196	PIEDMONT NATURAL GAS COMPANY, INC. (a North Carolina corporation) 4720 Piedmont Row Drive Charlotte, North Carolina 28210 704-364-3120 56-0556998		

SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE ACT:

Registrant	Title of each class	Name of each exchange on which registered
Duke Energy Corporation (Duke Energy)	Common Stock, \$0.001 par value	New York Stock Exchange, Inc.
Duke Energy	5.125% Junior Subordinated Debentures due January 15, 2073	New York Stock Exchange, Inc.

SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT: None

Registrant	Yes	No	Registrant	Yes	No
Duke Energy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Duke Energy Florida, LLC (Duke Energy Florida)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Duke Energy Carolinas, LLC (Duke Energy Carolinas)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Duke Energy Ohio, Inc. (Duke Energy Ohio)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Progress Energy, Inc. (Progress Energy)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Duke Energy Indiana, LLC (Duke Energy Indiana)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Duke Energy Progress, LLC (Duke Energy Progress)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Piedmont Natural Gas Company, Inc. (Piedmont)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes No (Response applicable to all registrants.)

Indicate by check mark whether the registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrants have submitted electronically and posted on their corporate website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (\$232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. (Only applicable to Duke Energy)

Indicate by check mark whether Duke Energy is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one): Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont are large accelerated filers, accelerated filers, non-accelerated filers, or smaller reporting companies. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one): Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrants are a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

Estimated aggregate market value of the common equity held by nonaffiliates of Duke Energy at June 30, 2017.	\$58,468,482,557
Number of shares of Common Stock, \$0.001 par value, outstanding at January 31, 2018.	700,092,667

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Duke Energy definitive proxy statement for the 2018 Annual Meeting of the Shareholders or an amendment to this Annual Report are incorporated by reference into PART III, Items 10, 11 and 13 hereof. This combined Form 10-K is filed separately by eight registrants: Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont (collectively the Duke Energy Registrants). Information contained herein relating to any individual registrant is filed by such registrant solely on its own behalf. Each registrant makes no representation as to information relating exclusively to the other registrants.

Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont meet the conditions set forth in General Instructions I(1)(a) and (b) of Form 10-K and are, therefore, filing this Form 10-K with the reduced disclosure format specified in General Instructions I(2) of Form 10-K.

EXPLANATORY NOTE

Duke Energy Corporation and its subsidiaries (collectively, the "Company") filed its Annual Report on Form 10-K for the fiscal year ended December 31, 2017 (the "Original Filing") with the U.S. Securities and Exchange Commission (the "SEC") on February 21, 2018. The Company is filing this Amendment No. 1 (the "Amendment") to its Original Filing solely to revise two typographical errors as follows:

- A date contained in the REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM related to their Opinion on the Financial Statements. In that report, the date cross-referencing their Opinion on Internal Control over Financial Reporting was inadvertently referenced as February 23, 2018. The correct date of their Opinion on Internal Control over Financial Reporting is February 21, 2018. That error has been corrected in this Amendment.
- A date contained in the REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM related to their Opinion on Internal Control over Financial Reporting. In that report, the date cross-referencing their Opinion on the Financial Statements was inadvertently referenced as February 23, 2018. The correct date of their Opinion on the Financial Statements is February 21, 2018. That error has been corrected in this Amendment.

In addition, pursuant to the rules of the SEC, the exhibit list included in Item 15 of Part IV of the Original Filing has been amended to contain currently-dated certifications from the Company's Chief Executive Officer and Chief Financial Officer, as required by Sections 302 and 906 of the Sarbanes-Oxley Act of 2002. The certifications of the Company's Chief Executive Officer and Chief Financial Officer are attached as exhibits to this Amendment.

Except as described above, this Amendment does not amend or update any other information contained in the Original Filing. The Company has included a complete copy of the Original Filing, as amended per above, in this filing.

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CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This document includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements are based on management's beliefs and assumptions and can often be identified by terms and phrases that include "anticipate," "believe," "intend," "estimate," "expect," "continue," "should," "could," "may," "plan," "project," "predict," "will," "potential," "forecast," "target," "guidance," "outlook" or other similar terminology. Various factors may cause actual results to be materially different than the suggested outcomes within forward-looking statements; accordingly, there is no assurance that such results will be realized. These factors include, but are not limited to:

- State, federal and foreign legislative and regulatory initiatives, including costs of compliance with existing and future environmental requirements, including those related to climate change, as well as rulings that affect cost and investment recovery or have an impact on rate structures or market prices;

- The extent and timing of costs and liabilities to comply with federal and state laws, regulations and legal requirements related to coal ash remediation, including amounts for required closure of certain ash impoundments, are uncertain and difficult to estimate;
- The ability to recover eligible costs, including amounts associated with coal ash impoundment retirement obligations and costs related to significant weather events, and to earn an adequate return on investment through rate case proceedings and the regulatory process;
- The costs of decommissioning Crystal River Unit 3 and other nuclear facilities could prove to be more extensive than amounts estimated and all costs may not be fully recoverable through the regulatory process;
- Costs and effects of legal and administrative proceedings, settlements, investigations and claims;
- Industrial, commercial and residential growth or decline in service territories or customer bases resulting from sustained downturns of the economy and the economic health of our service territories or variations in customer usage patterns, including energy efficiency efforts and use of alternative energy sources, such as self-generation and distributed generation technologies;
- Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system, excess generation resources as well as stranded costs;
- Advancements in technology;
- Additional competition in electric and natural gas markets and continued industry consolidation;
- The influence of weather and other natural phenomena on operations, including the economic, operational and other effects of severe storms, hurricanes, droughts, earthquakes and tornadoes, including extreme weather associated with climate change;
- The ability to successfully operate electric generating facilities and deliver electricity to customers including direct or indirect effects to the company resulting from an incident that affects the U.S. electric grid or generating resources;
- The ability to complete necessary or desirable pipeline expansion or infrastructure projects in our natural gas business;
- Operational interruptions to our natural gas distribution and transmission activities;
- The availability of adequate interstate pipeline transportation capacity and natural gas supply;
- The impact on facilities and business from a terrorist attack, cybersecurity threats, data security breaches and other catastrophic events, such as fires, explosions, pandemic health events or other similar occurrences;
- The inherent risks associated with the operation of nuclear facilities, including environmental, health, safety, regulatory and financial risks, including the financial stability of third-party service providers;
- The timing and extent of changes in commodity prices and interest rates and the ability to recover such costs through the regulatory process, where appropriate, and their impact on liquidity positions and the value of underlying assets;
- The results of financing efforts, including the ability to obtain financing on favorable terms, which can be affected by various factors, including credit ratings, interest rate fluctuations, compliance with debt covenants and conditions and general market and economic conditions;
- Credit ratings of the Duke Energy Registrants may be different from what is expected;
- Declines in the market prices of equity and fixed-income securities and resultant cash funding requirements for defined benefit pension plans, other post-retirement benefit plans and nuclear decommissioning trust funds;
- Construction and development risks associated with the completion of the Duke Energy Registrants' capital investment projects, including risks related to financing, obtaining and complying with terms of permits, meeting construction budgets and schedules and satisfying operating and environmental performance standards, as well as the ability to recover costs from customers in a timely manner, or at all;
- Changes in rules for regional transmission organizations, including changes in rate designs and new and evolving capacity markets, and risks related to obligations created by the default of other participants;
- The ability to control operation and maintenance costs;
- The level of creditworthiness of counterparties to transactions;
- Employee workforce factors, including the potential inability to attract and retain key personnel;
- The ability of subsidiaries to pay dividends or distributions to Duke Energy Corporation holding company (the Parent);
- The performance of projects undertaken by our nonregulated businesses and the success of efforts to invest in and develop new opportunities;
- The effect of accounting pronouncements issued periodically by accounting standard-setting bodies;
- The impact of new U.S. tax legislation to our financial condition, results of operations or cash flows and our credit ratings;
- The impacts from potential impairments of goodwill or equity method investment carrying values;
- The ability to successfully complete future merger, acquisition or divestiture plans; and
- The ability to implement our business strategy.

Additional risks and uncertainties are identified and discussed in the Duke Energy Registrants' reports filed with the SEC and available at the SEC's website at www.sec.gov. In light of these risks, uncertainties and assumptions, the events described in the forward-looking statements might not occur or might occur to a different extent or at a different time than described. Forward-looking statements speak only as of the date they are made and the Duke Energy Registrants expressly disclaim an obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Glossary of Terms

The following terms or acronyms used in this Form 10-K are defined below:

Term or Acronym	Definition	Term or Acronym	Definition
2013 Settlement	Revised and Restated Stipulation and Settlement Agreement approved in November 2013 among Duke Energy Florida, the Florida OPC and other customer advocates	CCS	Carbon Capture and Storage
the 2015 Plan	Duke Energy Corporation 2015 Long-Term Incentive Plan	CECPCN	Certificate of Environmental Compatibility and Public Convenience and Necessity
2017 Settlement	Second Revised and Restated Settlement Agreement in 2017 among Duke Energy Florida, the Florida OPC and other customer advocates, which replaces and supplants the 2013 Settlement	CEO	Chief Executive Officer
ACP	Atlantic Coast Pipeline, LLC, a limited liability company owned by Dominion, Duke Energy and Southern Company Gas	CertainTeed	CertainTeed Gypsum NC, Inc.
ACP Pipeline	The approximately 600-mile proposed interstate natural gas pipeline	Cinergy	Cinergy Corp. (collectively with its subsidiaries)
ADIT	Net Accumulated Deferred Income Tax	CO ₂	Carbon Dioxide
AFUDC	Allowance for funds used during construction	Coal Ash Act	North Carolina Coal Ash Management Act of 2014
the Agents	Wells Fargo Securities, LLC, Citigroup Global Market Inc., J.P. Morgan Securities, LLC	COL	Combined Operating License
ALJ	Administrative Law Judge	the Company	Duke Energy Corporation and its subsidiaries
Amended Complaint	Amended Verified Consolidated Shareholder Derivative Complaint	Consolidated Complaint	Corrected Verified Consolidated Shareholder Derivative Complaint
AMI	Advanced Metering Infrastructure	Constitution	Constitution Pipeline Company, LLC
ANPRM	Advance Notice of Proposed Rulemaking	COSO	Committee of Sponsoring Organizations of the Treadway Commission
AOCI	Accumulated Other Comprehensive Income (Loss)	CP	Capacity Performance
ARO	Asset Retirement Obligation	CPCN	Certificate of Public Convenience and Necessity
the ASR	Accelerated Stock Repurchase Program	CPP	Clean Power Plan
ASRP	Accelerated natural gas service line replacement program	CRC	Cinergy Receivables Company LLC
Audit Committee	Audit Committee of the Board of Directors	Crystal River Unit 3	Crystal River Unit 3 Nuclear Plant
Barclays	Barclays Capital Inc.	CSA	Comprehensive Site Assessment
BCWF	Benton County Wind Farm, LLC	CSAPR	Cross-State Air Pollution Rule
Beckjord	Beckjord Generating Station	CT	Combustion Turbine
Belews Creek	Belews Creek Steam Station	CTG	China Three Gorges Energy S.à.r.l.
Bison	Bison Insurance Company Limited	CWA	Clean Water Act
Board of Directors	Duke Energy Board of Directors	DATC	Duke-American Transmission Co.
Bresalier Complaint	Shareholder derivative lawsuit filed by Saul Bresalier related to ash basin management practices	D.C. Circuit Court	U.S. Court of Appeals for the District of Columbia
Bresalier Defendants	Several current and former Duke Energy officers and directors named in the Bresalier Complaint	the Dealers	Goldman, Sachs & Co. and JPMorgan Chase Bank
Bridge Facility	\$4.9 billion senior secured financing facility with Barclays Capital Inc.	DEFPPF	Duke Energy Florida Project Finance, LLC
Brunswick	Brunswick Nuclear Plant	DEFRR	Duke Energy Florida Receivables, LLC
CAA	Clean Air Act	Deloitte	Deloitte & Touche LLP, and the member firms of Deloitte Touche Tohmatsu and their respective affiliates
Cardinal	Cardinal Pipeline Company, LLC	DEPR	Duke Energy Progress Receivables, LLC
Catawba	Catawba Nuclear Station	DERF	Duke Energy Receivables Finance Company, LLC
CC	Combined Cycle	DHHS	North Carolina Department of Health and Human Services
CCR	Coal Combustion Residuals	Directors' Savings Plan	Duke Energy Corporation Directors' Savings Plan
		DOE	U.S. Department of Energy
		DOJ	Department of Justice
		Dominion	Dominion Resources
		DRIP	Dividend Reinvestment Program
		DSM	Demand Side Management

Term or Acronym	Definition	Term or Acronym	Definition
Dth	Dekatherm	IGCC Settlement	2015 Settlement to resolve disputes with intervenors related to five IGCC riders
Duke Energy	Duke Energy Corporation (collectively with its subsidiaries)	IMR	Integrity Management Rider
Duke Energy Carolinas	Duke Energy Carolinas, LLC	International Disposal Group	Duke Energy's international business, excluding National Methanol Company
Duke Energy Defendants	Several current and former Duke Energy officers and directors named as defendants in the Consolidated Complaint	IRP	Integrated Resource Plans
Duke Energy Florida	Duke Energy Florida, LLC	IRS	Internal Revenue Service
Duke Energy Indiana	Duke Energy Indiana, LLC	ISFSI	Independent Spent Fuel Storage Installation
Duke Energy Kentucky	Duke Energy Kentucky, Inc.	ISO	Independent System Operator
Duke Energy Ohio	Duke Energy Ohio, Inc.	ITC	Investment Tax Credit
Duke Energy Progress	Duke Energy Progress, LLC	IURC	Indiana Utility Regulatory Commission
Duke Energy Registrants	Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont	Investment Trusts	Grantor trusts of Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana
Dynergy	Dynergy Inc.	JDA	Joint Dispatch Agreement
East Bend	East Bend Generating Station	KO Transmission	KO Transmission Company
the EDA	Equity Distribution Agreement	KPSC	Kentucky Public Service Commission
EE	Energy efficiency	kV	Kilovolt
EGU	Electric Generating Units	kWh	Kilowatt-hour
EIS	Environmental Impact Statement	LDC	Local Distribution Company
ELG	Effluent Limitations Guidelines	Lee Nuclear Station	William States Lee III Nuclear Station
EPA	U.S. Environmental Protection Agency	Legacy Duke Energy Directors	Members of the pre-merger Duke Energy Board of Directors
EPC	Engineering, Procurement and Construction agreement	Levy	Duke Energy Florida's proposed nuclear plant in Levy County, Florida
EPS	Earnings Per Share	LIBOR	London Interbank Offered Rate
ESP	Electric Security Plan	Long-Term FERC Mitigation	The revised market power mitigation plan related to the Progress Energy merger
ETR	Effective tax rate	Master Trust	Duke Energy Master Retirement Trust
Exchange Act	Exchange Act of 1934	McGuire	McGuire Nuclear Station
FASB	Financial Accounting Standards Board	Merger Agreement	The Agreement and Plan of Merger between Duke Energy and Piedmont
FERC	Federal Energy Regulatory Commission	Merger Chancery Litigation	Four shareholder derivative lawsuits filed in the Delaware Chancery Court related to the Progress Energy merger
Fitch	Fitch Ratings, Inc.	MGP	Manufactured gas plant
FirstEnergy	FirstEnergy Corp.	Midwest Generation Disposal Group	Duke Energy Ohio's nonregulated Midwest generation business and Duke Energy Retail Sales, LLC
Florida OPC	Florida Office of Public Counsel	MISO	Midcontinent Independent System Operator, Inc.
Form S-3	Registration statement	MMBtu	Million British Thermal Unit
FP&L	Florida Power & Light Company	MPP	Money Purchase Pension
FPSC	Florida Public Service Commission	Moody's	Moody's Investors Service, Inc.
FRR	Fixed Resource Requirement	MTBE	Methyl tertiary butyl ether
FTR	Financial transmission rights	MTEP	MISO Transmission Expansion Planning
GAAP	Generally Accepted Accounting Principles in the United States	MW	Megawatt
GHG	Greenhouse Gas	MVP	Multi Value Projects
GWh	Gigawatt-hours	MWh	Megawatt-hour
Hardy Storage	Hardy Storage Company, LLC	NCDEQ	North Carolina Department of Environmental Quality (formerly the North Carolina Department of Environment and Natural Resources)
Harris	Shearon Harris Nuclear Plant	NCEMC	North Carolina Electric Membership Corporation
Hines	Hines Energy Complex	NCEMPA	North Carolina Eastern Municipal Power Agency
I Squared	ISQ Enerlam Aggregator, L.P. and Enerlam Holding Ltd.	NCRC	Florida's Nuclear Cost Recovery Clause
IBNR	Incurred but not yet reported	NCRS	Nuclear Power Plant Cost Recovery Statutes
ICPA	Inter-Company Power Agreement	NCUC	North Carolina Utilities Commission
IGCC	Integrated Gasification Combined Cycle	NDTF	Nuclear decommissioning trust funds
IGCC Rider	Tracking mechanism used to recover costs related to the Edwardsport IGCC plant from retail electric customers		

Term or Acronym	Definition	Term or Acronym	Definition
NEIL	Nuclear Electric Insurance Limited	QF	Qualifying Facility
New Source Review	New Source Review (NSR) is a CAA program that requires industrial facilities to install modern pollution control equipment when they are built or when making a change that increases emissions significantly	RCA	Revolving Credit Agreement
NYSDEC	New York State Department of Environmental Conservation	RCRA	Resource Conservation and Recovery Act
NMC	National Methanol Company	Relative TSR	TSR of Duke Energy stock relative to a predefined peer group
NOL	Net operating loss	Robinson	Robinson Nuclear Plant
NOV	Notice of violation	RRBA	Roanoke River Basin Association
NO _x	Nitrogen oxide	RSU	Restricted Stock Unit
NPDES	National Pollutant Discharge Elimination System	RTO	Regional Transmission Organization
NPNS	Normal purchase/normal sale	Sabal Trail	Sabal Trail Transmission, LLC
NPR	Notice of Proposed Rulemaking	Sabal Trail Pipeline	Sabal Trail Natural Gas Pipeline
NRC	U.S. Nuclear Regulatory Commission	SACE	Southern Alliance of Clean Energy
NWPA	Nuclear Waste Policy Act of 1982	SAFSTOR	A method of decommissioning in which a nuclear facility is placed and maintained in a condition that allows the facility to be safely stored and subsequently decontaminated to levels that permit release for unrestricted use
NYSE	New York Stock Exchange	S.C. Court of Appeals	Court of Appeals of South Carolina
Oconee	Oconee Nuclear Station	SCCL	South Carolina Coastal Conservation League
OPEB	Other Post-Retirement Benefit Obligations	SEC	Securities and Exchange Commission
ORS	Office of Regulatory Staff	SEIS	Supplemental Environmental Impact Statement
Osprey Plant acquisition	Duke Energy Florida's purchase of a Calpine Corporation's 599-MW combined-cycle natural gas plant in Auburndale, Florida	SELC	Southern Environmental Law Center
OTTI	Other-than-temporary impairment	Segment Income	Income from continuing operations net of income attributable to noncontrolling interests
OVEC	Ohio Valley Electric Corporation	SO ₂	Sulfur dioxide
the Parent	Duke Energy Corporation holding company	SouthStar	SouthStar Energy Services, LLC
PCAOB	Public Company Accounting Oversight Board	Spectra Capital	Spectra Energy Capital, LLC
PGA	Purchased Gas Adjustments	S&P	Standard & Poor's Rating Services
Phase I CCR Compliance Projects	Duke Energy Indiana's federally mandated compliance projects to comply with the EPA's CCR rule	S&P 500	Standard & Poor's 500 Stock Index
Philadelphia Utility Index	Philadelphia Sector Index	SSO	Standard Service Offer
PHMSA	Pipeline and Hazardous Materials Safety Administration	State Utility Commissions	NCUC, PSCSC, FPSC, PUCO, IURC, KPSC and TPUC (Collectively)
Piedmont	Piedmont Natural Gas Company, Inc.	State Electric Utility Commissions	NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (Collectively)
Piedmont Pension Assets	Qualified pension plan assets associated with the Retirement Plan of Piedmont	State Gas Utility Commissions	NCUC, PSCSC, PUCO, TPUC and KPSC (Collectively)
Piedmont Term Loan	18-month term loan facility with commitments totaling \$250M entered in June 2017	Subsidiary Registrants	Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
Pine Needle	Pine Needle LNG Company, LLC	Sutton	L.V. Sutton Combined Cycle Plant
Pioneer	Pioneer Transmission, LLC	the Tax Act	Tax Cut and Jobs Act
PJM	PJM Interconnection, LLC	T&D Rider	Tracking mechanism to recover grid infrastructure improvement costs in Indiana
PMPA	Piedmont Municipal Power Agency	TPUC	Tennessee Public Utility Commission
PPA	Purchase Power Agreement	TSR	Total shareholder return
Progress Energy	Progress Energy, Inc.	Uprate Project	Hines Chiller Uprate Project
PSCSC	Public Service Commission of South Carolina	U.S.	United States
PTC	Production Tax Credits	U.S. Court of Appeals	U.S. Court of Appeals for the Second Circuit
PUCO	Public Utilities Commission of Ohio	VEBA	Voluntary Employees' Beneficiary Association
PUCO Order	Order issued by PUCO approving a settlement of Duke Energy Ohio's natural gas base rate case and authorizing the recovery of certain MGP costs	VIE	Variable Interest Entity
PURPA	Public Utility Regulatory Policies Act of 1978	WACC	Weighted Average Cost of Capital
		WNA	weather normalization adjustment
		WVPA	Wabash Valley Power Association, Inc.

PART I

ITEM 1. BUSINESS

DUKE ENERGY

General

Duke Energy Corporation (collectively with its subsidiaries, Duke Energy) was incorporated on May 3, 2005, and is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the Federal Energy Regulatory Commission (FERC). Duke Energy operates in the United States (U.S.) primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas, LLC (Duke Energy Carolinas); Progress Energy, Inc. (Progress Energy); Duke Energy Progress, LLC (Duke Energy Progress); Duke Energy Florida, LLC (Duke Energy Florida); Duke Energy Ohio, Inc. (Duke Energy Ohio); Duke Energy Indiana, LLC (Duke Energy Indiana) and Piedmont Natural Gas Company, Inc. (Piedmont). When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate subsidiary registrants (collectively referred to as the Subsidiary Registrants), which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Piedmont, a North Carolina corporation, is an energy services company whose principal business is the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are Piedmont's sales for resale customers. In October 2016, Duke Energy completed the acquisition of Piedmont. Piedmont's earnings and cash flows are only included in Duke Energy's consolidated results subsequent to the acquisition date. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding the acquisition.

In December 2016, Duke Energy completed an exit of the Latin American market to focus on its domestic regulated business, which was further bolstered by the acquisition of Piedmont. The sale of the International Energy business segment, excluding an equity method investment in National Methanol Company (NMC), was completed through two transactions including a sale of assets in Brazil to China Three Gorges (Luxembourg) Energy S.à.r.l. (CTG) and a sale of Duke Energy's remaining Latin American assets in Peru, Chile, Ecuador, Guatemala, El Salvador and Argentina to ISQ Enerlam Aggregator, L.P. and Enerlam (UK) Holding Ltd. (I Squared) (collectively, the International Disposal Group). See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information on the sale of International Energy.

The Duke Energy Registrants electronically file reports with the Securities and Exchange Commission (SEC), including Annual Reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxies and amendments to such reports.

The public may read and copy any materials the Duke Energy Registrants file with the SEC at the SEC's Public Reference Room at 100 F Street, NE, Washington, DC 20549. The public may obtain information on the operation of

the Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC also maintains an internet site that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC at <http://www.sec.gov>. Additionally, information about the Duke Energy Registrants, including reports filed with the SEC, is available through Duke Energy's website at <http://www.duke-energy.com>. Such reports are accessible at no charge and are made available as soon as reasonably practicable after such material is filed with or furnished to the SEC.

Business Segments

Duke Energy's segment structure includes three reportable operating segments (business segments); Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. Duke Energy's chief operating decision-maker routinely reviews financial information about each of these business segments in deciding how to allocate resources and evaluate the performance of the business. For additional information on each of these business segments, including financial and geographic information, see Note 3 to the Consolidated Financial Statements, "Business Segments." The following sections describe the business and operations of each of Duke Energy's business segments, as well as Other.

ELECTRIC UTILITIES AND INFRASTRUCTURE

Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio. Electric Utilities and Infrastructure provides retail electric service through the generation, transmission, distribution and sale of electricity to approximately 7.6 million customers within the Southeast and Midwest regions of the U.S. The service territory is approximately 95,000 square miles across six states with a total estimated population of 24 million people. The operations include electricity sold wholesale to municipalities, electric cooperative utilities and other load-serving entities. Electric Utilities and Infrastructure is also a joint owner in certain electric transmission projects. Electric Utilities and Infrastructure has a 50 percent ownership interest in Duke-American Transmission Co. (DATC), a partnership with American Transmission Company, formed to design, build and operate transmission infrastructure. DATC owns 72 percent of the transmission service rights to Path 15, an 84-mile transmission line in central California. Electric Utilities and Infrastructure also has a 50 percent ownership interest in Pioneer Transmission, LLC, which builds, owns and operates electric transmission facilities in North America.

The electric operations and investments in projects are subject to the rules and regulations of the FERC, the North Carolina Utilities Commission (NCUC), the Public Service Commission of South Carolina (PSCSC), the Florida Public Service Commission (FPSC), the Indiana Utility Regulatory Commission (IURC), the Public Utilities Commission of Ohio (PUCO) and the Kentucky Public Service Commission (KPSC).

The following table represents the distribution of billed sales by customer class for the year ended December 31, 2017.

	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Residential	30%	26%	49%	34%	26%
General service	33%	23%	37%	38%	25%
Industrial	25%	16%	8%	23%	32%
Total retail sales	88%	65%	94%	95%	83%
Wholesale and other sales	12%	35%	6%	5%	17%
Total sales	100%	100%	100%	100%	100%

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The number of residential and general service customers within the Electric Utilities and Infrastructure service territory is expected to increase over time. While economic conditions within the service territory continue to improve, sales growth has been hampered by continued adoption of energy efficiencies and self-generation. The continued adoption of more efficient housing and appliances is expected to have a negative impact on average usage per residential customer over time. While residential sales increased in 2017 compared to 2016, the growth rate was modest when compared to historical periods.

Seasonality and the Impact of Weather

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions.

The estimated impact of weather on earnings is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling-degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating-degree day and each degree of temperature above the base temperature counts as one cooling-degree day.

Competition

Retail

Electric Utilities and Infrastructure's businesses operate as the sole supplier of electricity within their service territories, with the exception of Ohio, which has a competitive electricity supply market for generation service. Electric Utilities and Infrastructure owns and operates facilities necessary to transmit and distribute electricity and, except in Ohio, to generate electricity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable electricity at fair prices.

Competition in the regulated electric distribution business is primarily from the development and deployment of alternative energy sources including on-site generation from industrial customers and distributed generation, such as private solar, at residential, general service and/or industrial customer sites.

Duke Energy is not aware of any proposed legislation within any of its jurisdictions that would provide retail customers the right to choose their electricity provider or otherwise restructure or deregulate the electric industry, including broadly subsidizing distributed generation such as private solar.

Although there is no pending legislation at this time, if the retail jurisdictions served by Electric Utilities and Infrastructure become subject to deregulation, the recovery of stranded costs could become a significant consideration. Stranded costs primarily include the generation assets of Electric Utilities and Infrastructure whose value in a competitive marketplace may be less than their current book value, as well as above-market purchased power commitments from qualifying facilities (QFs). The Public Utility Regulatory Policies Act of 1978 (PURPA) established a new class of generating facilities

as QFs, typically small power production facilities that generate power within a utility company's service territory for which the utility companies are legally obligated to purchase the energy at an avoided cost rate. Thus far, all states that have passed restructuring legislation have provided for the opportunity to recover a substantial portion of stranded costs.

Electric Utilities and Infrastructure's largest stranded cost exposure is primarily related to Duke Energy Florida's purchased power commitments with QFs, under which it has future minimum expected capacity payments through 2043 of \$2.4 billion. Duke Energy Florida was obligated to enter into these contracts under provisions of PURPA. Duke Energy Florida continues to seek ways to address the impact of escalating payments under these contracts. However, the FPSC allows full recovery of the retail portion of the cost of power purchased from QFs. For additional information related to these purchased power commitments, see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies."

In Ohio, Electric Utilities and Infrastructure conducts competitive auctions for electricity supply. The cost of energy purchased through these auctions is recovered from retail customers. Electric Utilities and Infrastructure earns retail margin in Ohio on the transmission and distribution of electricity and not on the cost of the underlying energy.

Wholesale

Duke Energy competes with other utilities and merchant generators for bulk power sales, sales to municipalities and cooperatives and wholesale transactions under primarily cost-based contracts approved by FERC. The principal factors in competing for these sales are price, availability of capacity and power and reliability of service. Prices are influenced primarily by market conditions and fuel costs.

Increased competition in the wholesale electric utility industry and the availability of transmission access could affect Electric Utilities and Infrastructure's load forecasts, plans for power supply and wholesale energy sales and related revenues. Wholesale energy sales will be impacted by the extent to which additional generation is available to sell to the wholesale market and the ability of Electric Utilities and Infrastructure to attract new customers and to retain existing customers.

Energy Capacity and Resources

Electric Utilities and Infrastructure owns approximately 49,506 megawatts (MW) of generation capacity. For additional information on owned generation facilities, see Item 2, "Properties."

Energy and capacity are also supplied through contracts with other generators and purchased on the open market. Factors that could cause Electric Utilities and Infrastructure to purchase power for its customers may include, but are not limited to, generating plant outages, extreme weather conditions, generation reliability, demand growth and price. Electric Utilities and Infrastructure has interconnections and arrangements with its neighboring utilities to facilitate planning, emergency assistance, sale and purchase of capacity and energy and reliability of power supply.

Electric Utilities and Infrastructure's generation portfolio is a balanced mix of energy resources having different operating characteristics and fuel sources designed to provide energy at the lowest possible cost to meet its obligation to serve retail customers. All options, including owned generation resources and purchased power opportunities, are continually evaluated on a real-time basis to select and dispatch the lowest-cost resources available to meet system load requirements.

Potential Plant Retirements

The Subsidiary Registrants periodically file Integrated Resource Plans (IRP) with state regulatory commissions. The IRPs provide a view of forecasted energy needs over a long term (10 to 20 years) and options being considered to meet those needs. Recent IRPs filed by the Subsidiary Registrants included

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planning assumptions to potentially retire certain coal-fired generating facilities earlier than their current estimated useful lives, primarily because these facilities do not have the requisite emission control equipment to meet United States Environmental Protection Agency (EPA) regulations recently approved or proposed. Duke Energy continues to evaluate the potential need to retire these coal-fired generating facilities earlier than the current estimated useful lives and plans to seek regulatory recovery for amounts that would not be otherwise recovered when any of these assets are retired. For additional information related to potential plant retirements, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

On October 23, 2015, the EPA published in the Federal Register the final Clean Power Plan (CPP) rule that regulates carbon dioxide (CO₂) emissions from existing fossil fuel-fired electric generating units (EGUs). The CPP establishes CO₂ emission rates and mass cap goals that apply to existing fossil fuel-fired EGUs. Petitions challenging the rule were filed by several groups and on February 9, 2016, the Supreme Court issued a stay of the final CPP rule, halting implementation of the CPP until legal challenges are resolved. States in which the Duke Energy Registrants operate have suspended work on the CPP in response to the stay. Oral arguments before 10 of the 11 judges on D.C. Circuit Court were heard on September 27, 2016. The court has not issued its opinion in the case.

On March 28, 2017, President Trump signed an executive order directing EPA to review the CPP and determine whether to suspend, revise or rescind the rule. On the same day, the Department of Justice (DOJ) filed a motion with the D.C. Circuit Court requesting that the court stay the litigation of the rule

while it is reviewed by EPA. On April 28, 2017, the court issued an order to suspend the litigation for 60 days. On August 8, 2017, the court, on its own motion, extended the suspension of the litigation for an additional 60 days. On October 16, 2017, EPA issued a Notice of Proposed Rulemaking (NPR) to repeal the CPP based on a change to EPA's legal interpretation of the section of the Clean Air Act (CAA) on which the CPP was based. In the proposal, EPA indicates that it has not determined whether it will issue a rule to replace the CPP, and if it will do so, when and what form that rule will take. The comment period on EPA's NPR ends April 26, 2018. On December 28, 2017 EPA issued an Advance Notice of Proposed Rulemaking (ANPRM) in which it seeks public comment on various aspects of a potential CPP replacement rule. The comment period on the ANPRM ends February 26, 2018. If EPA decides to move forward with a CPP replacement rule, it will need to issue a formal proposal for public comment. Litigation of the CPP remains on hold in the D.C. Circuit and the February 2016 U.S. Supreme Court stay of the CPP remains in effect.

Should the CPP be upheld, compliance could cause the industry to replace coal-fired generation with natural gas and renewables. Costs to operate coal-fired generation plants continue to grow due to increasing environmental compliance requirements, including ash management costs unrelated to CPP, which may result in the retirement of coal-fired generation plants earlier than the current end of useful lives. The Duke Energy Registrants could incur increased fuel, purchased power, operation and maintenance and other costs for replacement generation as a result of this rule. Due to the uncertainties related to the implementation of the CPP, the Duke Energy Registrants cannot predict the outcome of these matters.

Sources of Electricity

Electric Utilities and Infrastructure relies principally on coal, nuclear fuel and natural gas for its generation of electricity. The following table lists sources of electricity and fuel costs for the three years ended December 31, 2017.

	Generation by Source			Cost of Delivered Fuel per Net Kilowatt-hour Generated (Cents)		
	2017	2016	2015	2017	2016	2015
Coal ^(a)	27.4%	27.1%	29.0%	2.72	3.07	3.24
Nuclear ^(a)	27.8%	27.4%	27.0%	0.69	0.66	0.65
Natural gas and oil ^(a)	23.6%	22.9%	23.1%	2.85	3.07	3.74
All fuels (cost-based on weighted average) ^(a)	78.8%	77.4%	79.1%	2.04	2.22	2.50
Hydroelectric and solar ^(b)	0.7%	0.7%	0.8%			
Total generation	79.5%	78.1%	79.9%			
Purchased power and net interchange	20.5%	21.9%	20.1%			
Total sources of energy	100.0%	100.0%	100.0%			

(a) Statistics related to all fuels reflect Electric Utilities and Infrastructure's ownership interest in jointly owned generation facilities.

(b) Generating figures are net of output required to replenish pumped storage facilities during off-peak periods.

Coal

Electric Utilities and Infrastructure meets its coal demand through a portfolio of long-term purchase contracts and short-term spot market purchase agreements. Large amounts of coal are purchased under long-term contracts with mining operators who mine both underground and at the surface. Electric Utilities and Infrastructure uses spot market purchases to meet coal requirements not met by long-term contracts. Expiration dates for its long-term contracts, which have various price adjustment provisions and market re-openers, range from 2018 to 2020 for Duke Energy Carolinas, 2018 to 2020 for Duke Energy Progress, 2018 to 2020 for Duke Energy Florida, 2018 to 2020 for Duke Energy Ohio and 2018 to 2025 for Duke Energy Indiana. Electric Utilities and Infrastructure expects to renew these contracts or enter into similar contracts with other suppliers as existing contracts expire, though prices will fluctuate over time as coal markets change. Electric Utilities and Infrastructure has an adequate supply of coal under contract to meet its hedging guidelines regarding projected future consumption. As a result of volatility in natural gas prices and the associated impacts on coal-fired dispatch within the

generation fleet, coal inventories will continue to fluctuate. Electric Utilities and Infrastructure continues to actively manage its portfolio and has worked with suppliers to obtain increased flexibility in its coal contracts.

Coal purchased for the Carolinas is primarily produced from mines in Central Appalachia, Northern Appalachia and the Illinois Basin. Coal purchased for Florida is primarily produced from mines in Colorado and the Illinois Basin. Coal purchased for Kentucky is delivered by barge and is produced from mines along the Ohio River in Illinois, Ohio, West Virginia and Pennsylvania. Coal purchased for Indiana is primarily produced in Indiana and Illinois. The current average sulfur content of coal purchased by Electric Utilities and Infrastructure is between 1.5 percent and 2 percent for Duke Energy Carolinas, between 1.5 percent and 2 percent for Duke Energy Progress, between 1 percent and 3 percent for Duke Energy Florida, between 3 percent and 3.5 percent for Duke Energy Ohio and between 2.5 percent and 3 percent for Duke Energy Indiana. Electric Utilities and Infrastructure's environmental controls, in combination with the use of sulfur dioxide (SO₂) emission allowances, enable Electric Utilities and Infrastructure to satisfy current SO₂ emission limitations for its existing facilities.

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Nuclear

The industrial processes for producing nuclear generating fuel generally involve the mining and milling of uranium ore to produce uranium concentrates and services to convert, enrich and fabricate fuel assemblies.

Electric Utilities and Infrastructure has contracted for uranium materials and services to fuel its nuclear reactors. Uranium concentrates, conversion services and enrichment services are primarily met through a diversified portfolio of long-term supply contracts. The contracts are diversified by supplier, country of origin and pricing. Electric Utilities and Infrastructure staggers its contracting so that its portfolio of long-term contracts covers the majority of its fuel requirements in the near term and decreasing portions of its fuel requirements over time thereafter. Near-term requirements not met by long-term supply contracts have been and are expected to be fulfilled with spot market purchases. Due to the technical complexities of changing suppliers of fuel fabrication services, Electric Utilities and Infrastructure generally sources these services to a single domestic supplier on a plant-by-plant basis using multiyear contracts.

Electric Utilities and Infrastructure has entered into fuel contracts that cover 100 percent of its uranium concentrates, conversion services and enrichment services requirements through at least 2018 and cover fabrication services requirements for these plants through at least 2027. For future requirements not already covered under long-term contracts, Electric Utilities and Infrastructure believes it will be able to renew contracts as they expire or enter into similar contractual arrangements with other suppliers of nuclear fuel materials and services.

Natural Gas and Fuel Oil

Natural gas and fuel oil supply, transportation and storage for Electric Utilities and Infrastructure's generation fleet is purchased under standard

The following table summarizes purchased power for the previous three years:

	2017	2016	2015
Purchase obligations and leases (in millions of megawatt-hours (MWh)) ^(a)	17.7	18.0	14.9
Purchase capacity under contract (in MW) ^(b)	4,028	4,588	4,573

(a) Represents approximately 7 percent of total system requirements for 2017 and 2016 and 6 percent for 2015.

(b) These agreements include approximately 451 MW of firm capacity under contract by Duke Energy Florida with QFs.

Inventory

Generation of electricity is capital intensive. Electric Utilities and Infrastructure must maintain an adequate stock of fuel and materials and supplies in order to ensure continuous operation of generating facilities and reliable delivery to customers. As of December 31, 2017, the inventory balance for Electric Utilities and Infrastructure was approximately \$3.1 billion. For additional information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Ash Basin Management

The North Carolina Coal Ash Management Act of 2014 (Coal Ash Act) regulates the handling of coal ash within the state and requires closure of ash impoundments by no later than December 31, 2029, based on risk rankings, among other detailed requirements. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of coal ash surface impoundments (ash basins or impoundments) to the normal ratemaking processes before utility regulatory commissions. Duke Energy has and will periodically submit to applicable authorities required site-specific coal ash impoundment remediation or closure plans. These plans and all associated permits must be approved before any work can begin.

On April 17, 2015, the EPA published in the Federal Register a rule to regulate the disposal of coal combustion residuals (CCR) from electric utilities

industry agreements from various suppliers, including Piedmont. Natural gas supply agreements typically provide for a percentage of forecasted burns being procured over time, with varied expiration dates. Electric Utilities and Infrastructure believes it has access to an adequate supply of natural gas and fuel oil for the reasonably foreseeable future.

Electric Utilities and Infrastructure has certain dual-fuel generating facilities that can operate utilizing both natural gas and fuel oil. The cost of Electric Utilities and Infrastructure's natural gas and fuel oil is fixed price or determined by published market prices as reported in certain industry publications, plus any transportation and freight costs. Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana use derivative instruments to manage a portion of their exposure to price fluctuations for natural gas. For Duke Energy Florida, there is currently an agreed to moratorium on future hedging with the Florida Public Service Commission.

Electric Utilities and Infrastructure has firm interstate and intrastate natural gas transportation agreements and storage agreements in place to support generation needed for load requirements. Electric Utilities and Infrastructure may purchase additional shorter-term natural gas transportation and utilize natural gas interruptible transportation agreements to support generation needed for load requirements. The Electric Utilities and Infrastructure natural gas plants are served by various supply zones and multiple pipelines.

Purchased Power

Electric Utilities and Infrastructure purchases a portion of its capacity and system requirements through purchase obligations, leases and purchase capacity contracts. Electric Utilities and Infrastructure believes it can obtain adequate purchased power capacity to meet future system load needs. However, during periods of high demand, the price and availability of purchased power may be significantly affected.

as solid waste. The rule classifies CCR as nonhazardous under Subtitle D of the Resource Conservation and Recovery Act (RCRA). The EPA CCR rule has certain requirements, which if not met could initiate impoundment closure and require closure completion within five years. The EPA CCR rule includes extension requirements, which if met could allow the extension of closure completion by up to 10 years. The RCRA and the Coal Ash Act finalized the legal framework related to coal ash management practices and ash basin closure.

Duke Energy has advanced the strategy and implementation for the remediation or closure of coal ash basins. In 2015, Duke Energy began activities at certain North Carolina sites specified as high priority by the Coal Ash Act, including moving coal ash off-site for use in structural fill or to lined landfills. Additional modifications to operating coal plants are underway to comply with the Coal Ash Act and RCRA.

Duke Energy Carolinas and Duke Energy Progress have included compliance costs associated with the EPA CCR rule and the Coal Ash Act in their respective rate case filings. During 2017, Duke Energy Carolinas' and Duke Energy Progress' wholesale contracts were amended to include the recovery of expenditures related to asset retirement obligations for the closure of coal ash basins. The amended contracts have retail disallowance parity or provisions limiting challenges to CCR cost recovery actions at FERC. FERC approved the amended wholesale rate schedules in 2017. For additional information on the ash basins and recovery, see Notes 4, 5 and 9 to the Consolidated Financial Statements, "Regulatory Matters," "Commitments and Contingencies" and "Asset Retirement Obligations," respectively.

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Nuclear Matters

Duke Energy owns, wholly or partially, 11 operating nuclear reactors located at six stations. The Crystal River Unit 3 Nuclear Plant (Crystal River Unit 3) permanently ceased operation in February 2013. Nuclear insurance includes: nuclear liability coverage; property damage coverage; nuclear accident decontamination and premature decommissioning coverage; and accidental outage coverage for losses in the event of a major accidental outage. Joint owners reimburse Duke Energy for certain expenses associated with nuclear insurance in accordance with joint owner agreements. The Price-Anderson Act

requires plant owners to provide for public nuclear liability claims resulting from nuclear incidents to the maximum total financial protection liability, which is approximately \$13.4 billion. For additional information on nuclear insurance see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies."

Duke Energy has a significant future financial commitment to dispose of spent nuclear fuel and decommission and decontaminate each plant safely. The NCUC, PSCSC and FPSC require Duke Energy to update their cost estimates for decommissioning their nuclear plants every five years.

The following table summarizes the fair value of nuclear decommissioning trust fund (NDTF) balances and cost study results for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida. Decommissioning costs in the table below are stated in 2013 or 2014 dollars, depending on the year of the cost study, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	NDTF ^(a)		Decommissioning Costs ^{(a)(b)}	Year of Cost Study
	December 31, 2017	December 31, 2016		
Duke Energy	\$ 7,097	\$ 6,205	\$ 8,150	2013 and 2014
Duke Energy Carolinas	3,772	3,273	3,420	2013
Duke Energy Progress	2,588	2,217	3,550	2014
Duke Energy Florida ^(c)	736	715	1,180	2013

(a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.

(b) Amounts include the Subsidiary Registrants' ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.

(c) Duke Energy Florida received reimbursements from the NDTF for costs related to ongoing decommissioning activity of Crystal River Unit 3.

The NCUC, PSCSC, FPSC and FERC have allowed Electric Utilities and Infrastructure to recover estimated decommissioning costs through retail and wholesale rates over the expected remaining service periods of their nuclear stations. Electric Utilities and Infrastructure believes the decommissioning costs being recovered through rates, when coupled with the existing fund balances and expected fund earnings, will be sufficient to provide for the cost of future decommissioning. For additional information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

The Nuclear Waste Policy Act of 1982 (as amended) (NWPA) provides the framework for development by the federal government of interim storage and permanent disposal facilities for high-level radioactive waste materials. The government has not yet developed a storage facility or disposal capacity, so Electric Utilities and Infrastructure will continue to store spent fuel on its reactor sites.

Under federal law, the U.S. Department of Energy (DOE) is responsible for the selection and construction of a facility for the permanent disposal of spent nuclear fuel and high-level radioactive waste. The DOE terminated the project to license and develop a geologic repository at Yucca Mountain, Nevada in 2010, and is currently taking no action to fulfill its responsibilities to dispose of spent fuel.

Until the DOE begins to accept the spent nuclear fuel, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida will continue to safely manage their spent nuclear fuel. Under current regulatory guidelines, Shearon Harris Nuclear Plant (Harris) has sufficient storage capacity in its spent fuel pools through the expiration of its renewed operating license. Crystal River Unit 3 ceased operation in 2013 and was placed in a SAFSTOR condition in January 2018. As of January 2018, all spent fuel at Crystal River Unit 3 has been transferred from the spent fuel pool to dry storage at an on-site independent spent fuel storage installation where it will be stored until the DOE removes it. With certain modifications and approvals by the U.S. Nuclear Regulatory Commission (NRC) to expand the on-site dry cask storage facilities, spent nuclear fuel dry storage facilities will be sufficient to provide storage space of spent fuel through the expiration of the operating licenses, including any license renewals, for the Brunswick Nuclear Plant (Brunswick), Catawba Nuclear Station (Catawba), McGuire Nuclear Station (McGuire), Oconee Nuclear Station (Oconee) and Robinson Nuclear Plant (Robinson).

The nuclear power industry faces uncertainties with respect to the cost and long-term availability of disposal sites for spent nuclear fuel and other

radioactive waste, compliance with changing regulatory requirements, capital outlays for modifications and new plant construction.

Electric Utilities and Infrastructure is subject to the jurisdiction of the NRC for the design, construction and operation of its nuclear generating facilities. The following table includes the current year of expiration of nuclear operating licenses for nuclear stations in operation. Nuclear operating licenses are potentially subject to extension.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. For additional information on decommissioning activity, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

On October 27, 2016, and December 15, 2016, the NRC issued combined operating licenses for Duke Energy Florida's proposed Levy Nuclear Plant Units 1 and 2 (Levy) and Duke Energy Carolinas' William States Lee III Nuclear Station Units 1 and 2, respectively. On August 25, 2017, as part of Duke Energy Carolinas rate case filing, Duke Energy Carolinas requested NCUC approval to cancel the development of the Lee Nuclear Station project with the intent to maintain the combined operating licenses. On August 29, 2017, Duke Energy announced the complete abandonment of the Levy project with the intent to terminate the combined operating licenses. For additional information on these proposed nuclear plants, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

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Regulation

State

The NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (collectively, the state electric utility commissions) approve rates for Duke Energy's retail electric service within their respective states. The state electric utility commissions, to varying degrees, have authority over the construction and operation of Electric Utilities and Infrastructure's generating facilities. Certificates of Public Convenience and Necessity issued by the state electric utility commissions, as applicable, authorize Electric Utilities and Infrastructure to construct and operate its electric facilities and to sell electricity to retail and wholesale customers. Prior approval from the relevant state electric utility commission is required for the entities within Electric Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus earn a reasonable rate of return on its invested capital, including equity.

In addition to rates approved in base rate cases, each of the state electric utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over or under-recovered costs, are prudent.

Fuel, fuel-related costs and certain purchased power costs are eligible for recovery by Electric Utilities and Infrastructure. Electric Utilities and Infrastructure uses coal, hydroelectric, natural gas, oil, renewable generation and nuclear fuel to generate electricity, thereby maintaining a diverse fuel mix that helps mitigate the impact of cost increases in any one fuel. Due to the associated regulatory treatment and the method allowed for recovery, changes in fuel costs from year to year have no material impact on operating results of Electric Utilities and Infrastructure, unless a commission finds a portion of such costs to have been imprudent. However, delays between the expenditure for fuel costs and recovery from customers can adversely impact the timing of cash flows of Electric Utilities and Infrastructure.

The table below reflects significant electric rate case applications approved and effective in the past three years or applications currently pending approval.

	Regulatory Body	Annual Increase (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:					
Duke Energy Progress 2016 South Carolina Rate Case ^(a)	PSCSC	(a)	10.1%	53%	1/1/2017
Pending Rate Cases:					
Duke Energy Carolinas 2017 North Carolina Rate Case	NCUC	\$ 647	10.75%	53%	5/1/2018 ^(d)
Duke Energy Progress 2017 North Carolina Rate Case ^(b)	NCUC	85	9.9%	52%	2/1/2018 ^(d)
Duke Energy Progress 2017 North Carolina Rate Case ^(c)	NCUC	221	9.9%	52%	2/1/2018 ^(d)
Duke Energy Kentucky 2017 Kentucky Rate Case	KPSC	49	10.3%	49%	4/15/2018 ^(d)
Duke Energy Ohio 2017 Ohio Rate Case	PUCO	15	10.4%	50.75%	1/1/2018 ^(d)

(a) An increase of approximately \$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$18.5 million in revenues was effective January 1, 2018. Duke Energy Progress amortized approximately \$18.5 million from the cost of removal reserve in 2017.

(b) On November 22, 2017, Duke Energy Progress and the North Carolina Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding, pending NCUC approval.

(c) Represents portions in the original 2017 rate case application not covered by the Agreement and Stipulation of Partial Settlement.

(d) Represents the requested effective dates in the filings. Actual effective dates may differ based on orders from the respective commission.

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

section. See "Other Matters" section of MD&A for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

Federal

The FERC approves Electric Utilities and Infrastructure's cost-based rates for electric sales to certain power and transmission wholesale customers. Regulations of FERC and the state electric utility commissions govern access to regulated electric and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Electric Utilities and Infrastructure.

Regional Transmission Organizations (RTO). PJM Interconnection, LLC (PJM) and Midcontinent Independent System Operator, Inc. (MISO) are the Independent System Operators (ISO) and FERC-approved RTOs for the regions in which Duke Energy Ohio and Duke Energy Indiana operate. PJM and MISO operate energy, capacity and other markets, and control the day-to-day operations of bulk power systems through central dispatch.

Duke Energy Ohio is a member of PJM and Duke Energy Indiana is a member of MISO. Transmission owners in these RTOs have turned over control of their transmission facilities and their transmission systems are currently under the dispatch control of the RTOs. Transmission service is provided on a regionwide, open-access basis using the transmission facilities of the RTO members at rates based on the costs of transmission service.

Environmental. Electric Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure conducts natural gas operations primarily through the regulated public utilities of Piedmont and Duke Energy Ohio. The natural gas operations are subject to the rules and regulations of the NCUC, PSCSC, PUCO, KPSC, Tennessee Public Utility Commission (TPUC), Pipeline and Hazardous Materials Safety Administration (PHMSA) and the FERC. Gas Utilities and Infrastructure serves residential, commercial, industrial and power generation natural gas customers. Gas Utilities and Infrastructure has over 1.5 million customers, including more than 1 million customers located in North Carolina, South Carolina and Tennessee, and an additional 526,000 customers located within southwestern Ohio and northern Kentucky. In the Carolinas, Ohio and Kentucky, the service areas are comprised of numerous cities, towns and communities. In Tennessee, the service area is the metropolitan area of Nashville.

The number of residential, commercial and industrial customers within the Gas Utilities and Infrastructure service territory is expected to increase over time. Average usage per residential customer is expected to remain flat or decline for the foreseeable future, however decoupled rates in North Carolina and various rate design mechanisms in other jurisdictions partially mitigate the impact of the declining usage per customer on overall profitability. While total

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industrial and general service sales increased in 2017 when compared to 2016, the growth rate was modest when compared to historical periods.

Gas Utilities and Infrastructure also owns, operates and has investments in various pipeline transmission and natural gas storage facilities.

Natural Gas for Retail Distribution

Gas Utilities and Infrastructure is responsible for the distribution of natural gas to retail customers in its North Carolina, South Carolina, Tennessee, Ohio and Kentucky service territories. Gas Utilities and Infrastructure's natural gas procurement strategy is to contract primarily with major and independent producers and marketers for natural gas supply. It also purchases a diverse portfolio of transportation and storage service from interstate pipelines. This strategy allows Gas Utilities and Infrastructure to assure reliable natural gas supply and transportation for its firm customers during peak winter conditions. When firm pipeline services or contracted natural gas supplies are temporarily not needed due to market demand fluctuations, Gas Utilities and Infrastructure may release these services and supplies in the secondary market under FERC-approved capacity release provisions or make wholesale secondary market sales. In 2017, firm supply purchase commitment agreements provided 100 percent of the natural gas supply for Piedmont and 100 percent for Duke Energy Ohio.

Seasonality and the Impact of Weather

Gas Utilities and Infrastructure's costs and revenues are influenced by seasonal patterns due to peak natural gas sales occurring during the winter months. Residential customers are the most impacted by weather. There are certain regulatory mechanisms for the North Carolina, South Carolina and Tennessee service territories that normalize the margins collected from certain customer classes during the winter, providing for an adjustment either up or down. In North Carolina, rate design provides protection from both weather and other usage variations such as conservation. In South Carolina and Tennessee, revenues are adjusted solely based on weather during the periods of November through March and October through April, respectively. Rate design for the Ohio service territory also mitigates the impacts of weather on customer bills. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions.

Degree-day data are used to estimate energy required to maintain comfortable indoor temperatures based on each day's average temperature. Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. The methodology used to estimate the applicable impact of weather does not consider all variables that may impact customer response to weather conditions, such as wind chill. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Competition

Gas Utilities and Infrastructure's businesses operate as the sole supplier of natural gas within their retail service territories, with the exception of Ohio, which has a competitive natural gas supply market for distribution service. Gas Utilities and Infrastructure owns and operates facilities necessary to transport and distribute natural gas. Gas Utilities and Infrastructure earns retail margin on the transmission and distribution of natural gas and not on the cost of the underlying commodity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable natural gas service at fair prices.

In residential, commercial and industrial customer markets, natural gas distribution operations compete with other companies that supply energy, primarily electric companies, propane and fuel oil dealers, renewable energy providers and coal companies in relation to sources of energy for electric power plants, as well as nuclear energy. A significant competitive factor is

price. Gas Utilities and Infrastructure's primary product competition is with electricity for heating, water heating and cooking. Increases in the price of natural gas or decreases in the price of other energy sources could negatively impact competitive position by decreasing the price benefits of natural gas to the consumer. In the case of industrial customers, such as manufacturing plants, adverse economic or market conditions, including higher natural gas costs, could cause these customers to suspend business operations or to use alternative sources of energy in favor of energy sources with lower per-unit costs.

Higher natural gas costs or decreases in the price of other energy sources may allow competition from alternative energy sources for applications that have traditionally used natural gas, encouraging some customers to move away from natural gas-fired equipment to equipment fueled by other energy sources. Competition between natural gas and other forms of energy is also based on efficiency, performance, reliability, safety and other non-price factors. Technological improvements in other energy sources and events that impair the public perception of the non-price attributes of natural gas could erode our competitive advantage. These factors in turn could decrease the demand for natural gas, impair our ability to attract new customers and cause existing customers to switch to other forms of energy or to bypass our systems in favor of alternative competitive sources. This could result in slow or no customer growth and could cause customers to reduce or cease using our product, thereby reducing our ability to make capital expenditures and otherwise grow our business, adversely affecting our earnings.

Pipeline and Storage Investments

Duke Energy, through its Gas Utilities and Infrastructure segment, is a 47 percent equity member of Atlantic Coast Pipeline, LLC (ACP) that plans to build and own the proposed Atlantic Coast Pipeline (ACP Pipeline), an approximately 600-mile interstate natural gas pipeline, regulated by FERC. Prior to the Piedmont acquisition, Duke Energy owned a 40 percent equity ownership in ACP. The ACP pipeline is intended to transport diverse natural gas supplies into southeastern markets. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the ACP pipeline. The targeted in-service date of the pipeline is late 2019.

Gas Utilities and Infrastructure also has a 7.5 percent equity ownership interest in Sabal Trail Transmission, LLC (Sabal Trail). Sabal Trail is a joint venture that owns a 515-mile natural gas pipeline (Sabal Trail pipeline) to transport natural gas to Florida, regulated by FERC. The Sabal Trail phase one mainline was placed into service in July 2017 and traverses Alabama, Georgia and Florida. A request to place in-service a lateral line to the Duke Energy Florida's Citrus County Combined Cycle facility is pending with FERC. Current legal challenges to the Sabal Trail pipeline are ongoing, which may have an impact on continuing operations of the pipeline.

Gas Utilities and Infrastructure has a 24 percent equity ownership interest in Constitution Pipeline Company, LLC (Constitution), an interstate pipeline development company formed to develop, construct, own and operate a 124-mile natural gas pipeline and related facilities connecting shale natural gas supplies and gathering systems in Susquehanna County, Pennsylvania, to Iroquois Gas Transmission and Tennessee Gas Pipeline systems in New York, regulated by FERC. As a result of permitting delays and project uncertainty, Constitution is unable to approximate an in-service date.

As a result of the Piedmont acquisition, Duke Energy, through its Gas Utilities and Infrastructure segment, has a 21.49 percent equity ownership interest in Cardinal Pipeline Company, LLC (Cardinal), an intrastate pipeline located in North Carolina regulated by the NCUC, a 45 percent equity ownership in Pine Needle LNG Company, LLC (Pine Needle), an interstate liquefied natural gas storage facility located in North Carolina and a 50 percent equity ownership interest in Hardy Storage Company, LLC (Hardy Storage), an underground interstate natural gas storage facility located in Hardy and Hampshire counties in West Virginia. Pine Needle and Hardy Storage are regulated by FERC.

KO Transmission Company (KO Transmission), a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business

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of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

See Notes 4, 12 and 17 to the Consolidated Financial Statements, "Regulatory Matters," "Investments in Unconsolidated Affiliates" and "Variable Interest Entities," respectively, for further information on Duke Energy's pipeline investments.

Inventory

Gas Utilities and Infrastructure must maintain adequate natural gas inventory in order to provide reliable delivery to customers. As of December 31, 2017, the inventory balance for Gas Utilities and Infrastructure was \$106 million. For more information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulation

State

The NCUC, PSCSC, PUCO, TPUC and KPSC (collectively, the state gas utility commissions) approve rates for Duke Energy's retail natural gas service

The following table summarizes certain components underlying recently approved and effective base rates or rate stabilization filings in the last three years.

	Annual Increase (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Piedmont 2016 South Carolina Rate Stabilization Adjustment Filing ^(a)	8	10.2%	53.0%	November 2016
Piedmont 2017 South Carolina Rate Stabilization Adjustment Filing ^(a)	6	10.2%	53.0%	November 2017

(a) Under the rate stabilization adjustment mechanism, Piedmont resets rates in South Carolina based on updated costs and revenues on an annual basis.

Gas Utilities and Infrastructure has integrity management rider (IMR) mechanisms in North Carolina and Tennessee designed to separately track and recover certain costs associated with capital investments incurred to comply with federal pipeline safety and integrity programs, as well as additional state safety and integrity requirements in Tennessee. The following table summarizes information related to recently approved or pending IMR filings.

(in millions)	Cumulative Investment	Annual Margin Revenues	Effective Date
Piedmont 2017 IMR Filing – North Carolina ^(a)	\$ 738	\$ 77	December 2017
Piedmont 2016 IMR Filing – Tennessee ^(b)	193	23	January 2017

Pending Filing:			Proposed Effective Date
Piedmont 2017 IMR Filing – Tennessee ^(c)	\$ 231	\$ 23.4	January 2018

(a) Cumulative investment amounts through September 30, 2017.

(b) Cumulative investment amounts through October 31, 2016.

(c) Cumulative investment amounts through October 31, 2017. A ruling from the TPUC is pending.

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

Gas Utilities and Infrastructure is subject to various federal regulations, including regulations that are particular to the natural gas industry. These federal regulations include but are not limited to the following:

- Regulations of the FERC affect the certification and siting of new interstate natural gas pipeline projects, the purchase and sale of, the prices paid for, and the terms and conditions of service for the interstate transportation and storage of natural gas.

within their respective states. The state gas utility commissions, to varying degrees, have authority over the construction and operation of Gas Utilities and Infrastructure's natural gas distribution facilities. Certificates of Public Convenience and Necessity or Certificates of Environmental Compatibility and Public Necessity issued by the state gas utility commissions or other government agencies, as applicable, authorize Gas Utilities and Infrastructure to construct and operate its natural gas distribution facilities and to sell natural gas to retail and wholesale customers. Prior approval from the relevant state gas utility commission is required for Gas Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus a reasonable rate of return on its invested capital, including equity.

In addition to amounts collected from customers through approved base rates, each of the state gas utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over- or under-recovered costs, are prudent.

Natural gas costs are eligible for recovery by Gas Utilities and Infrastructure. Due to the associated regulatory treatment and the method allowed for recovery, changes in natural gas costs from year to year have no material impact on operating results of Gas Utilities and Infrastructure, unless a commission finds a portion of such costs to have not been prudent. However, delays between the expenditure for natural gas and recovery from customers can adversely impact the timing of cash flows of Gas Utilities and Infrastructure.

- Regulations of the PHMSA affect the design, construction, operation, maintenance, integrity, safety and security of natural gas distribution and transmission systems.
- Regulations of the EPA relate to the environment including proposed air emissions regulations that would expand to include emissions of methane. For a discussion of environmental regulation, see "Environmental Matters" in this section. Refer to "Other Matters" section of Management's Discussion and Analysis of Financial Condition and Results of Operations for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

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Regulations of FERC and the state gas utility commissions govern access to regulated natural gas and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Gas Utilities and Infrastructure.

COMMERCIAL RENEWABLES

Commercial Renewables primarily acquires, builds, develops and operates wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage businesses.

Commercial Renewables' renewable energy includes utility-scale wind and solar generation assets, which total 2,907 MW across 14 states from 21 wind facilities and 63 solar facilities. Revenues are primarily generated by selling the power produced from renewable generation through long-term contracts to utilities, electric cooperatives, municipalities and commercial and industrial customers. In most instances, these customers have obligations under state-mandated renewable energy portfolio standards or similar state or local renewable energy goals. Energy and renewable energy credits generated by wind and solar projects are generally sold at contractual prices. In addition, as eligible wind and solar projects are placed in service, Commercial Renewables recognizes either investment tax credits (ITCs) when the renewable solar or wind project achieves commercial availability or production tax credits (PTC) as power is generated by wind projects over 10 years. Renewable ITCs are recognized over the useful life of the asset as a reduction to depreciation expense with the benefit of the tax basis adjustment due to the ITC recognized in income in the year of commercial availability.

As part of its growth strategy, Commercial Renewables has expanded its investment portfolio through the addition of distributed solar companies and projects, energy storage systems and energy management solutions specifically tailored to commercial businesses. These investments include the 2015 acquisition of a controlling interest in REC Solar Corp., a California-based provider of solar installations for retail, manufacturing, agriculture, technology, government and nonprofit customers across the U.S. and Phoenix Energy Technologies Inc., a California-based provider of enterprise energy management and information software to commercial businesses. In 2017, Duke Energy acquired the remaining interest in REC Solar.

For additional information on Commercial Renewables' generation facilities, see Item 2, "Properties."

Regulation

Commercial Renewables is subject to regulation at the federal level, primarily from the FERC. Regulations of the FERC govern access to regulated market information by nonregulated entities and services provided between regulated and nonregulated utilities.

Market Environment and Competition

The market price of commodities and services, along with the quality and reliability of services provided, drive competition in the wholesale energy business. Commercial Renewables' main competitors include other nonregulated generators and wholesale power providers.

Sources of Electricity

Commercial Renewables relies on wind and solar resources for its generation of electric energy.

OTHER

The remainder of Duke Energy's operations is presented as Other. While it is not an operating segment, Other primarily includes interest expense on holding company debt, unallocated corporate costs including costs to achieve strategic acquisitions, amounts related to certain companywide initiatives and contributions made to the Duke Energy Foundation. Other also includes Bison Insurance Company Limited (Bison) and an investment in NMC.

The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Bison, a wholly owned subsidiary of Duke Energy, is a captive insurance company with the principal activity of providing Duke Energy subsidiaries with indemnification for financial losses primarily related to property, workers' compensation and general liability.

NMC is a joint venture that operates in Jubail, Saudi Arabia, as a large regional producer of methanol and methyl tertiary butyl ether (MTBE), an additive to gasoline. In 2017, NMC produced approximately 934,000 metric tons of methanol and approximately 1,087,000 metric tons of MTBE. Approximately 40 percent of methanol is normally used in MTBE production. Upon the successful startup of NMC's polyacetal production facility during the fourth quarter of 2017, Duke Energy's ownership interest in NMC decreased from 25 percent to 17.5 percent. Duke Energy records the investment activity of NMC using the equity method of accounting and retains 25 percent of NMC's board of directors representation and voting rights.

Regulation

Certain entities within Other are subject to the jurisdiction of federal, state and local agencies.

Employees

On December 31, 2017, Duke Energy had a total of 29,060 employees on its payroll. The total includes 5,483 employees who are represented by labor unions under various collective bargaining agreements that generally cover wages, benefits, working practices, and other terms and conditions of employment.

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Executive Officers of the Registrants

The following table sets forth the individuals who currently serve as executive officers. Executive officers serve until their successors are duly elected or appointed.

Name	Age ^(a)	Current and Recent Positions Held
Lynn J. Good	58	Chairman, President and Chief Executive Officer. Ms. Good was elected as Chairman of the Board, effective January 1, 2016, and assumed her position as President and Chief Executive Officer in July 2013. Prior to that, she served as Executive Vice President and Chief Financial Officer since 2009.
Steven K. Young	59	Executive Vice President and Chief Financial Officer. Mr. Young assumed his current position in August 2013. Prior to that, he had served as Senior Vice President, Chief Accounting Officer and Controller since April 2006.
Douglas F. Esamann	60	Executive Vice President, Energy Solutions and President, Midwest and Florida Regions. Mr. Esamann assumed his current position in September 2016 and was Executive Vice President and President, Midwest and Florida Regions since June 2015. Prior to that, he was President, Duke Energy Indiana since November 2010.
Lloyd M. Yates	57	Executive Vice President, Customer and Delivery Operations and President, Carolinas Region. Mr. Yates assumed his current position in September 2016 and was Executive Vice President, Market Solutions and President, Carolinas Region since August 2014. He held the position of Executive Vice President, Regulated Utilities from December 2012 to August 2014, and prior to that, had served as Executive Vice President, Customer Operations since July 2012, upon the merger of Duke Energy and Progress Energy. Prior to the merger, Mr. Yates was President and Chief Executive Officer of Progress Energy Carolinas, Inc., which is now known as Duke Energy Progress, LLC since July 2007.
Dhiaa M. Jamil	61	Executive Vice President and Chief Operating Officer. Mr. Jamil assumed the role of Chief Operating Officer in May 2016. Prior to his current position, he had held the title Executive Vice President and President, Regulated Generation and Transmission since June 2015. Prior to that, he had served as Executive Vice President and President, Regulated Generation since August 2014. He served as Executive Vice President and President of Duke Energy Nuclear from March 2013 to August 2014, and Chief Nuclear Officer from February 2008 to February 2013. He also served as Chief Generation Officer for Duke Energy from July 2009 to June 2012.
Franklin H. Yoho	58	Executive Vice President and President, Natural Gas. Mr. Yoho assumed his current position in October 2016 upon the acquisition of Piedmont by Duke Energy. Prior to this appointment, he served as Senior Vice President and Chief Commercial Officer of Piedmont since August 2011. Prior to that, he served as Senior Vice President, Commercial Operations since March 2002.
Julia S. Janson	53	Executive Vice President, External Affairs, Chief Legal Officer and Corporate Secretary. Ms. Janson assumed her current position in December 2012 and, in May 2017, assumed the responsibilities for the External Affairs and Strategic Policy organization. Prior to that, she had held the position of President of Duke Energy Ohio and Duke Energy Kentucky since 2008.
Melissa H. Anderson	53	Executive Vice President, Administration and Chief Human Resources Officer. Ms. Anderson assumed her position in May 2016 and had been Executive Vice President and Chief Human Resources Officer since January 2015. Prior to joining Duke Energy, she served as Senior Vice President of Human Resources at Domtar Inc. since 2010.
William E. Currens Jr.	48	Senior Vice President, Chief Accounting Officer and Controller. Mr. Currens assumed his current position in May 2016. Prior to that, he had held the position of Vice President, Investor Relations since 2009.

(a) The ages of the officers provided are as of December 31, 2017.

There are no family relationships between any of the executive officers, nor any arrangement or understanding between any executive officer and any other person involved in officer selection.

Environmental Matters

The Duke Energy Registrants are subject to federal, state and local laws and regulations with regard to air and water quality, hazardous and solid waste disposal and other environmental matters. Environmental laws and regulations affecting the Duke Energy Registrants include, but are not limited to:

- The Clean Air Act (CAA), as well as state laws and regulations impacting air emissions, including State Implementation Plans related to existing and new national ambient air quality standards for ozone and particulate matter. Owners and/or operators of air emission sources are responsible for obtaining permits and for annual compliance and reporting.
- The Clean Water Act (CWA), which requires permits for facilities that discharge wastewaters into navigable waters.
- The Comprehensive Environmental Response, Compensation and Liability Act, which can require any individual or entity that currently owns or in the past owned or operated a disposal site, as well as transporters or generators of hazardous substances sent to a disposal site, to share in remediation costs.

- The National Environmental Policy Act, which requires federal agencies to consider potential environmental impacts in their permitting and licensing decisions, including siting approvals.
- Coal Ash Act, as amended, which establishes requirements regarding the use and closure of existing ash basins, the disposal of ash at active coal plants and the handling of surface water and groundwater impacts from ash basins in North Carolina.
- The Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA), which creates a framework for the proper management of hazardous and nonhazardous solid waste; classifies CCR as nonhazardous waste; and establishes standards for landfill and surface impoundment placement, design, operation and closure, groundwater monitoring, corrective action, and post-closure care.
- The Toxic Substances Control Act (TSCA), which gives EPA the authority to require reporting, recordkeeping and testing requirements, and to place restrictions relating to chemical substances and/or mixtures, including polychlorinated biphenyls.

For more information on environmental matters, see Notes 5 and 9 to the Consolidated Financial Statements, "Commitments and Contingencies – Environmental" and "Asset Retirement Obligations," respectively, and the "Other Matters" section of MD&A. Except as otherwise described in these sections, costs to comply with current federal, state and local provisions regulating the discharge of materials into the environment or other potential costs related to protecting the environment are incorporated into the routine cost structure of

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our various business segments and are not expected to have a material adverse effect on the competitive position, consolidated results of operations, cash flows or financial position of the Duke Energy Registrants.

The "Other Matters" section of MD&A includes an estimate of future capital expenditures required to comply with environmental regulations and a discussion of Global Climate Change including the potential impact of current and future legislation related to greenhouse gas (GHG) emissions on the Duke Energy Registrants' operations. Recently passed and potential future environmental statutes and regulations could have a significant impact on the Duke Energy Registrants' results of operations, cash flows or financial position. However, if and when such statutes and regulations become effective, the Duke Energy Registrants will seek appropriate regulatory recovery of costs to comply within its regulated operations.

DUKE ENERGY CAROLINAS

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas' service area covers approximately 24,000 square miles and supplies electric service to 2.5 million residential, commercial and industrial customers. For information about Duke Energy Carolinas' generating facilities, see Item 2, "Properties." Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Carolinas' operations are regulated and qualify for regulatory accounting. Duke Energy Carolinas operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PROGRESS ENERGY

Progress Energy is a public utility holding company primarily engaged in the regulated electric utility business and is subject to regulation by the FERC. Progress Energy conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. When discussing Progress Energy's financial information, it necessarily includes the results of Duke Energy Progress and Duke Energy Florida.

Substantially all of Progress Energy's operations are regulated and qualify for regulatory accounting. Progress Energy operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY PROGRESS

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress' service area covers approximately 32,000 square miles and supplies electric service to approximately 1.5 million residential, commercial and industrial customers. For information about Duke Energy Progress' generating facilities, see Item 2, "Properties." Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Progress' operations are regulated and qualify for regulatory accounting. Duke Energy Progress operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY FLORIDA

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida's service area covers approximately 13,000 square miles and supplies electric service to approximately 1.8 million residential, commercial and industrial customers. For information about Duke Energy Florida's generating facilities, see Item 2, "Properties." Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Substantially all of Duke Energy Florida's operations are regulated and qualify for regulatory accounting. Duke Energy Florida operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY OHIO

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, in the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio also conducts competitive auctions for retail electricity supply in Ohio whereby recovery of the energy price is from retail customers. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky, Inc. (Duke Energy Kentucky). References herein to Duke Energy Ohio include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC and FERC.

Duke Energy Ohio's service area covers approximately 3,000 square miles and supplies electric service to approximately 850,000 residential, commercial and industrial customers and provides transmission and distribution services for natural gas to approximately 529,000 customers. For information about Duke Energy Ohio's generating facilities, see Item 2, "Properties."

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

On April 2, 2015, Duke Energy completed the sale of its nonregulated Midwest generation business, which sold power into wholesale energy markets, to a subsidiary of Dynegy. For further information about the sale of the Midwest Generation business, refer to Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions."

Substantially all of Duke Energy Ohio's operations that remain after the sale qualify for regulatory accounting.

Business Segments

Duke Energy Ohio has two reportable operating segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure. For additional information on these business segments, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY INDIANA

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana's service area covers 23,000 square miles and supplies electric service to 820,000 residential, commercial and industrial customers. See Item 2, "Properties" for further discussion of Duke Energy

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Indiana's generating facilities, transmission and distribution. Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Substantially all of Duke Energy Indiana's operations are regulated and qualify for regulatory accounting. Duke Energy Indiana operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PIEDMONT

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are wholesale customers. Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC and FERC.

Substantially all of Piedmont's operations are regulated and qualify for regulatory accounting. Piedmont operates one reportable business segment, Gas Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

ITEM 1A. RISK FACTORS

In addition to other disclosures within this Form 10-K, including "Management's Discussion and Analysis of Financial Condition and Results of Operations – Matters Impacting Future Results" for each registrant in Item 7, and other documents filed with the SEC from time to time, the following factors should be considered in evaluating Duke Energy and its subsidiaries. Such factors could affect actual results of operations and cause results to differ substantially from those currently expected or sought. Unless otherwise indicated, risk factors discussed below generally relate to risks associated with all of the Duke Energy Registrants. Risks identified at the Subsidiary Registrant level are generally applicable to Duke Energy.

BUSINESS STRATEGY RISKS

Duke Energy's future results could be adversely affected if it is unable to implement its business strategy.

Duke Energy's future results of operations depend, in significant part, on the extent to which it can implement its business strategy successfully. Duke Energy's strategy, including transforming the customer experience, modernizing the energy grid, generating cleaner energy, expansion of natural gas infrastructure, modernizing the regulatory construct and engaging employees and stakeholders to accomplish these priorities, is subject to business, economic and competitive uncertainties and contingencies, many of which are beyond its control. As a consequence, Duke Energy may not be able to fully implement or realize the anticipated results of its strategy.

REGULATORY, LEGISLATIVE AND LEGAL RISKS

The Duke Energy Registrants' regulated utility revenues, earnings and results are dependent on state legislation and regulation that affect electric generation, electric and natural gas transmission, distribution and related activities, which may limit their ability to recover costs.

The Duke Energy Registrants' regulated electric and natural gas utility businesses are regulated on a cost-of-service/rate-of-return basis subject to statutes and regulatory commission rules and procedures of North Carolina, South Carolina, Florida, Ohio, Tennessee, Indiana and Kentucky. If the Duke

Energy Registrants' regulated utility earnings exceed the returns established by the state utility commissions, retail electric and natural gas rates may be subject to review and possible reduction by the commissions, which may decrease the Duke Energy Registrants' future earnings. Additionally, if regulatory bodies do not allow recovery of costs incurred in providing service on a timely basis, the Duke Energy Registrants' future earnings could be negatively impacted.

If legislative and regulatory structures were to evolve in such a way that the Duke Energy Registrants' exclusive rights to serve their regulated customers were eroded, their future earnings could be negatively impacted. Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system and an increase in customer net energy metering, which allows customers with private solar to receive bill credits for surplus power at the full retail amount. Over time, customer adoption of these technologies and increased energy efficiency could result in excess generation resources as well as stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

State regulators have approved various mechanisms to stabilize natural gas utility margins, including margin decoupling in North Carolina, rate stabilization in South Carolina and uncollectible natural gas cost recovery in all states. State regulators have approved other margin stabilizing mechanisms that, for example, allow for recovery of margin losses associated with negotiated transactions designed to retain large volume customers that could use alternative fuels or that may otherwise directly access natural gas supply through their own connection to an interstate pipeline. If regulators decided to discontinue the Duke Energy Registrants' use of tariff mechanisms, it would negatively impact results of operations, financial condition and cash flows. In addition, regulatory authorities also review whether natural gas costs are prudent and can disallow the recovery of a portion of natural gas costs that the Duke Energy Registrants seek to recover from customers, which would adversely impact earnings.

The rates that the Duke Energy Registrants' regulated utility businesses are allowed to charge are established by state utility commissions in rate case proceedings, which may limit their ability to recover costs and earn an appropriate return on investment.

The rates that the Duke Energy Registrants' regulated utility business are allowed to charge significantly influences the results of operations, financial position and liquidity of the Duke Energy Registrants. The regulation of the rates that the regulated utility businesses charge customers is determined, in large part, by state utility commissions in rate case proceedings. Negative decisions made by these regulators could have a material adverse effect on the Duke Energy Registrants' results of operations, financial position or liquidity and affect the ability of the Duke Energy Registrants to recover costs and an appropriate return on the significant infrastructure investments being made. Duke Energy cannot predict the outcome of these rate case proceedings.

Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs that could adversely affect the Duke Energy Registrants' financial position, results of operations or cash flows and their utility businesses.

Increased competition resulting from deregulation or restructuring legislation could have a significant adverse impact on the Duke Energy Registrants' results of operations, financial position or cash flows. Retail competition and the unbundling of regulated electric service could have a significant adverse financial impact on the Duke Energy Registrants due to an impairment of assets, a loss of retail customers, lower profit margins or increased costs of capital. The Duke Energy Registrants cannot predict the

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extent and timing of entry by additional competitors into the electric markets. The Duke Energy Registrants cannot predict if or when they will be subject to changes in legislation or regulation, nor can they predict the impact of these changes on their financial position, results of operations or cash flows.

The Duke Energy Registrants' businesses are subject to extensive federal regulation and a wide variety of laws and governmental policies, including taxes, that may change over time in ways that affect operations and costs.

Duke Energy is subject to regulations under a wide variety of U.S. federal and state regulations and policies. There can be no assurance that laws, regulations and policies will not be changed in ways that result in material modifications of business models and objectives or affect returns on investment by restricting activities and products, subjecting them to escalating costs or prohibiting them outright.

On December 22, 2017, President Trump signed the Tax Cuts and Jobs Acts (the Tax Act) into law which, among other provisions, reduces the maximum federal corporate income tax rate from 35 percent to 21 percent and limits interest deductions outside of regulated utility operations effective January 1, 2018. The resulting revaluation of existing deferred tax assets and liabilities to the lower federal corporate tax rate were recognized in Duke Energy's December 31, 2017, financial statements. Guidance issued by the SEC indicates that additional adjustments for items that were estimated may be recorded during 2018 if new information becomes available. The Tax Act also could be amended or subject to technical correction, which could change the financial impacts that were recorded at December 31, 2017, or are expected to be recorded in future periods. The FERC and state utility commissions will determine the regulatory treatment of the impacts of the Tax Act. Duke Energy's future results of operations, financial condition and cash flows could be adversely impacted by the Tax Act, subsequent amendments or corrections, or the actions of the FERC, state utility commissions or credit rating agencies related to the Tax Act.

The Duke Energy Registrants are subject to regulation by FERC, NRC, EPA and various other federal agencies as well as the North American Electric Reliability Corporation. Regulation affects almost every aspect of the Duke Energy Registrants' businesses, including, among other things, their ability to: take fundamental business management actions; determine the terms and rates of transmission and distribution services; make acquisitions; issue equity or debt securities; engage in transactions with other subsidiaries and affiliates; and pay dividends upstream to the Duke Energy Registrants. Changes to federal regulations are continuous and ongoing. The Duke Energy Registrants cannot predict the future course of regulatory changes or the ultimate effect those changes will have on their businesses. However, changes in regulation can cause delays in or affect business planning and transactions and can substantially increase the Duke Energy Registrants' costs.

The Duke Energy Registrants are subject to numerous environmental laws and regulations requiring significant capital expenditures that can increase the cost of operations, and which may impact or limit business plans, or cause exposure to environmental liabilities.

The Duke Energy Registrants are subject to numerous environmental laws and regulations affecting many aspects of their present and future operations, including CCRs, air emissions, water quality, wastewater discharges, solid waste and hazardous waste. These laws and regulations can result in increased capital, operating and other costs. These laws and regulations generally require the Duke Energy Registrants to obtain and comply with a wide variety of environmental licenses, permits, inspections and other approvals. Compliance with environmental laws and regulations can require significant expenditures, including expenditures for cleanup costs and damages arising from contaminated properties. Failure to comply with environmental regulations may result in the imposition of fines, penalties and injunctive measures

affecting operating assets. The steps the Duke Energy Registrants could be required to take to ensure their facilities are in compliance could be prohibitively expensive. As a result, the Duke Energy Registrants may be required to shut down or alter the operation of their facilities, which may cause the Duke Energy Registrants to incur losses. Further, the Duke Energy Registrants may not be successful in recovering capital and operating costs incurred to comply with new environmental regulations through existing regulatory rate structures and their contracts with customers. Also, the Duke Energy Registrants may not be able to obtain or maintain from time to time all required environmental regulatory approvals for their operating assets or development projects. Delays in obtaining any required environmental regulatory approvals, failure to obtain and comply with them or changes in environmental laws or regulations to more stringent compliance levels could result in additional costs of operation for existing facilities or development of new facilities being prevented, delayed or subject to additional costs. Although it is not expected that the costs to comply with current environmental regulations will have a material adverse effect on the Duke Energy Registrants' financial position, results of operations or cash flows due to regulatory cost recovery, the Duke Energy Registrants are at risk that the costs of complying with environmental regulations in the future will have such an effect.

The EPA has recently enacted or proposed new federal regulations governing the management of cooling water intake structures, wastewater and CO₂ emissions. These regulations may require the Duke Energy Registrants to make additional capital expenditures and increase operating and maintenance costs.

The Duke Energy Registrants' operations, capital expenditures and financial results may be affected by regulatory changes related to the impacts of global climate change.

There is continued concern, both nationally and internationally, about climate change. The EPA may adopt and implement regulations to restrict emissions of GHGs. Increased regulation of GHG emissions could impose significant additional costs on the Duke Energy Registrants' operations, their suppliers and customers. Regulatory changes could also result in generation facilities to be retired early and result in stranded costs if Duke Energy is not able to fully recover the costs and investment in generation. At this time, the effect that climate change regulation may have in the future on Duke Energy's business, financial condition or results of operations is not able to be predicted.

OPERATIONAL RISKS

The Duke Energy Registrants' results of operations may be negatively affected by overall market, economic and other conditions that are beyond their control.

Sustained downturns or sluggishness in the economy generally affect the markets in which the Duke Energy Registrants operate and negatively influence operations. Declines in demand for electricity or natural gas as a result of economic downturns in the Duke Energy Registrants' regulated service territories will reduce overall sales and lessen cash flows, especially as industrial customers reduce production and, therefore, consumption of electricity and the use of natural gas. Although the Duke Energy Registrants' regulated electric and natural gas businesses are subject to regulated allowable rates of return and recovery of certain costs, such as fuel and purchased natural gas costs, under periodic adjustment clauses, overall declines in electricity or natural gas sold as a result of economic downturn or recession could reduce revenues and cash flows, thereby diminishing results of operations. Additionally, prolonged economic downturns that negatively impact the Duke Energy Registrants' results of operations and cash flows could result in future material impairment charges to write-down the carrying value of certain assets, including goodwill, to their respective fair values.

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The Duke Energy Registrants also sell electricity into the spot market or other competitive power markets on a contractual basis. With respect to such transactions, the Duke Energy Registrants are not guaranteed any rate of return on their capital investments through mandated rates, and revenues and results of operations are likely to depend, in large part, upon prevailing market prices. These market prices may fluctuate substantially over relatively short periods of time and could reduce the Duke Energy Registrants' revenues and margins, thereby diminishing results of operations.

Factors that could impact sales volumes, generation of electricity and market prices at which the Duke Energy Registrants are able to sell electricity and natural gas are as follows:

- weather conditions, including abnormally mild winter or summer weather that cause lower energy or natural gas usage for heating or cooling purposes, as applicable, and periods of low rainfall that decrease the ability to operate facilities in an economical manner;
- supply of and demand for energy commodities;
- transmission or transportation constraints or inefficiencies that impact nonregulated energy operations;
- availability of competitively priced alternative energy sources, which are preferred by some customers over electricity produced from coal, nuclear or natural gas plants, and customer usage of energy-efficient equipment that reduces energy demand;
- natural gas, crude oil and refined products production levels and prices;
- ability to procure satisfactory levels of inventory, such as coal, natural gas and uranium; and
- capacity and transmission service into, or out of, the Duke Energy Registrants' markets.

Natural disasters or operational accidents may adversely affect the Duke Energy Registrants' operating results.

Natural disasters (such as electromagnetic events or the 2011 earthquake and tsunami in Japan) or other operational accidents within the company or industry (such as the San Bruno, California natural gas transmission pipeline failure) could have direct significant impacts on the Duke Energy Registrants as well as on key contractors and suppliers. Such events could indirectly impact the Duke Energy Registrants through changes to policies, laws and regulations whose compliance costs have a significant impact on the Duke Energy Registrants' financial position, results of operations and cash flows.

The reputation and financial condition of the Duke Energy Registrants could be negatively impacted due to their obligations to comply with federal and state regulations, laws, and other legal requirements that govern the operations, assessments, storage, closure, remediation, disposal and monitoring relating to CCR, the high costs and new rate impacts associated with implementing these new CCR-related requirements and the strategies and methods necessary to implement these requirements in compliance with these legal obligations.

As a result of electricity produced for decades at coal-fired power plants, the Duke Energy Registrants manage large amounts of CCR that are primarily stored in dry storage within landfills or combined with water in other surface impoundments, all in compliance with applicable regulatory requirements. However, the potential exists for another CCR-related incident, such as the one that occurred during the 2014 Dan River Steam Station ash basin release, that could raise environmental or general public health concerns. Such a CCR-related incident could have a material adverse impact on the reputation and financial condition of the Duke Energy Registrants.

During 2015, EPA regulations were enacted related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the RCRA and apply to electric generating sites with new and existing landfills, new and existing surface impoundments, structural fills and CCR piles, and establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments will continue to be independently regulated by existing state laws, regulations and permits, as well as additional legal requirements that may be imposed in the future. These federal and state laws, regulations and other legal requirements may require or result in additional expenditures, increased operating and maintenance costs and/or result in closure of certain power generating facilities, which could affect the financial position, results of operations and cash flows of the Duke Energy Registrants. The Duke Energy Registrants intend to seek full cost recovery for expenditures through the normal ratemaking process with state and federal utility commissions, who permit recovery in rates of necessary and prudently incurred costs associated with the Duke Energy Registrants' regulated operations, and through other wholesale contracts with terms that contemplate recovery of such costs, although there is no guarantee of full cost recovery. In addition, the timing for recovery of such costs could have a material adverse impact on Duke Energy's cash flows.

The Duke Energy Registrants have recognized significant asset retirement obligations related to these CCR-related requirements. Closure activities began in 2015 at the four sites specified as high priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of large amounts of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. At other sites, preliminary planning and closure methods have been studied and factored into the estimated retirement and management costs. The Coal Ash Act requires CCR surface impoundments in North Carolina to be closed, with the closure method and timing based on a risk ranking classification determined by legislation or state regulators. Additionally, the RCRA required closure timing depends upon meeting or continuing to meet certain criteria. As the closure and CCR management work progresses and final closure plans and corrective action measures are developed and approved at each site, the scope and complexity of work and the amount of CCR material could be greater than estimates and could, therefore, materially increase compliance expenditures and rate impacts.

The Duke Energy Registrants' financial position, results of operations and cash flows may be negatively affected by a lack of growth or slower growth in the number of customers, or decline in customer demand or number of customers.

Growth in customer accounts and growth of customer usage each directly influence demand for electricity and natural gas and the need for additional power generation and delivery facilities. Customer growth and customer usage are affected by a number of factors outside the control of the Duke Energy Registrants, such as mandated energy efficiency measures, demand-side management goals, distributed generation resources and economic and demographic conditions, such as population changes, job and income growth, housing starts, new business formation and the overall level of economic activity.

Certain regulatory and legislative bodies have introduced or are considering requirements and/or incentives to reduce energy consumption by certain dates. Additionally, technological advances driven by federal laws mandating new levels of energy efficiency in end-use electric devices or other improvements in or applications of technology could lead to declines in per capita energy consumption.

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Advances in distributed generation technologies that produce power, including fuel cells, microturbines, wind turbines and solar cells, may reduce the cost of alternative methods of producing power to a level competitive with central power station electric production utilized by the Duke Energy Registrants.

Some or all of these factors could result in a lack of growth or decline in customer demand for electricity or number of customers and may cause the failure of the Duke Energy Registrants to fully realize anticipated benefits from significant capital investments and expenditures, which could have a material adverse effect on their financial position, results of operations and cash flows.

Furthermore, the Duke Energy Registrants currently have energy efficiency riders in place to recover the cost of energy efficiency programs in North Carolina, South Carolina, Florida, Indiana, Ohio and Kentucky. Should the Duke Energy Registrants be required to invest in conservation measures that result in reduced sales from effective conservation, regulatory lag in adjusting rates for the impact of these measures could have a negative financial impact.

The Duke Energy Registrants' operating results may fluctuate on a seasonal and quarterly basis and can be negatively affected by changes in weather conditions and severe weather, including extreme weather conditions associated with climate change.

Electric power generation and natural gas distribution are generally seasonal businesses. In most parts of the U.S., the demand for power peaks during the warmer summer months, with market prices also typically peaking at that time. In other areas, demand for power peaks during the winter. Demand for natural gas peaks during the winter months. Further, extreme weather conditions such as heat waves, winter storms and severe weather associated with climate change could cause these seasonal fluctuations to be more pronounced. As a result, the overall operating results of the Duke Energy Registrants' businesses may fluctuate substantially on a seasonal and quarterly basis and thus make period-to-period comparison less relevant.

Sustained severe drought conditions could impact generation by hydroelectric plants, as well as fossil and nuclear plant operations, as these facilities use water for cooling purposes and for the operation of environmental compliance equipment. Furthermore, destruction caused by severe weather events, such as hurricanes, tornadoes, severe thunderstorms, snow and ice storms, can result in lost operating revenues due to outages, property damage, including downed transmission and distribution lines, and additional and unexpected expenses to mitigate storm damage. The cost of storm restoration efforts may not be fully recoverable through the regulatory process.

The Duke Energy Registrants' sales may decrease if they are unable to gain adequate, reliable and affordable access to transmission assets.

The Duke Energy Registrants depend on transmission and distribution facilities owned and operated by utilities and other energy companies to deliver electricity sold to the wholesale market. The FERC's power transmission regulations require wholesale electric transmission services to be offered on an open-access, non-discriminatory basis. If transmission is disrupted, or if transmission capacity is inadequate, the Duke Energy Registrants' ability to sell and deliver products may be hindered.

The different regional power markets have changing regulatory structures, which could affect growth and performance in these regions. In addition, the ISOs who oversee the transmission systems in regional power markets have imposed in the past, and may impose in the future, price limitations and other mechanisms to address volatility in the power markets. These types of price limitations and other mechanisms may adversely impact the profitability of the Duke Energy Registrants' wholesale power marketing business.

Duke Energy may be unable to complete necessary or desirable pipeline expansion or infrastructure development or maintenance projects, which

may delay or prevent the Duke Energy Registrants from serving natural gas customers or expanding the natural gas business.

In order to serve current or new natural gas customers or expand the service to existing customers, the Duke Energy Registrants need to maintain, expand or upgrade distribution, transmission and/or storage infrastructure, including laying new pipeline and building compressor stations. Duke Energy Registrants have made significant investments in a number of pipeline development projects, which are being operated and constructed by third party joint venture partners. Various factors, such as the inability to obtain required approval from local, state and/or federal regulatory and governmental bodies, public opposition to projects, inability to obtain adequate financing, competition for labor and materials, construction delays, cost overruns and the inability to negotiate acceptable agreements relating to rights of way, construction or other material development components, may prevent or delay the completion of projects or increase costs. As a result, the Duke Energy Registrants may be unable to adequately serve existing natural gas customers or support customer growth or could incur higher than anticipated costs, which could have a negative financial impact.

The availability of adequate interstate pipeline transportation capacity and natural gas supply may decrease.

The Duke Energy Registrants purchase almost all of their natural gas supply from interstate sources that must be transported to the applicable service territories. Interstate pipeline companies transport the natural gas to the Duke Energy Registrants' systems under firm service agreements that are designed to meet the requirements of their core markets. A significant disruption to interstate pipelines capacity or reduction in natural gas supply due to events including, but not limited to, operational failures or disruptions, hurricanes, tornadoes, floods, freeze off of natural gas wells, terrorist or cyberattacks or other acts of war or legislative or regulatory actions or requirements, including remediation related to integrity inspections, could reduce the normal interstate supply of natural gas and thereby reduce earnings. Moreover, if additional natural gas infrastructure, including, but not limited to, exploration and drilling rigs and platforms, processing and gathering systems, off-shore pipelines, interstate pipelines and storage, cannot be built at a pace that meets demand, then growth opportunities could be limited and earnings negatively impacted.

Fluctuations in commodity prices or availability may adversely affect various aspects of the Duke Energy Registrants' operations as well as their financial condition, results of operations and cash flows.

The Duke Energy Registrants are exposed to the effects of market fluctuations in the price of natural gas, coal, fuel oil, nuclear fuel, electricity and other energy-related commodities as a result of their ownership of energy-related assets. Fuel costs are recovered primarily through cost-recovery clauses, subject to the approval of state utility commissions.

Additionally, the Duke Energy Registrants are exposed to risk that counterparties will not be able to fulfill their obligations. Disruption in the delivery of fuel, including disruptions as a result of, among other things, transportation delays, weather, labor relations, force majeure events or environmental regulations affecting any of these fuel suppliers, could limit the Duke Energy Registrants' ability to operate their facilities. Should counterparties fail to perform, the Duke Energy Registrants might be forced to replace the underlying commitment at prevailing market prices possibly resulting in losses in addition to the amounts, if any, already paid to the counterparties.

Certain of the Duke Energy Registrants' hedge agreements may result in the receipt of, or posting of, derivative collateral with counterparties, depending on the daily derivative position. Fluctuations in commodity prices that lead to the return of collateral received and/or the posting of collateral with counterparties negatively impact liquidity. Downgrades in the Duke

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Energy Registrants' credit ratings could lead to additional collateral posting requirements. The Duke Energy Registrants continually monitor derivative positions in relation to market price activity.

Potential terrorist activities, or military or other actions, could adversely affect the Duke Energy Registrants' businesses.

The continued threat of terrorism and the impact of retaliatory military and other action by the U.S. and its allies may lead to increased political, economic and financial market instability and volatility in prices for natural gas and oil, which may have material adverse effects in ways the Duke Energy Registrants cannot predict at this time. In addition, future acts of terrorism and possible reprisals as a consequence of action by the U.S. and its allies could be directed against companies operating in the U.S. Information technology systems, transmission and distribution and generation facilities such as nuclear plants could be potential targets of terrorist activities or harmful activities by individuals or groups. The potential for terrorism has subjected the Duke Energy Registrants' operations to increased risks and could have a material adverse effect on their businesses. In particular, the Duke Energy Registrants may experience increased capital and operating costs to implement increased security for their information technology systems, transmission and distribution and generation facilities, including nuclear power plants under the NRC's design basis threat requirements. These increased costs could include additional physical plant security and security personnel or additional capability following a terrorist incident.

Cyberattacks and data security breaches could adversely affect the Duke Energy Registrants' businesses.

Information security risks have generally increased in recent years as a result of the proliferation of new technologies and the increased sophistication and frequency of cyberattacks and data security breaches. The utility industry requires the continued operation of sophisticated information technology systems and network infrastructure, which are part of an interconnected regional grid. Additionally, connectivity to the internet continues to increase through smart grid and other initiatives. Because of the critical nature of the infrastructure, increased connectivity to the internet and technology systems' inherent vulnerability to disability or failures due to hacking, viruses, acts of war or terrorism or other types of data security breaches, the Duke Energy Registrants face a heightened risk of cyberattack. In the event of such an attack, the Duke Energy Registrants could (i) have business operations disrupted, property damaged, customer information stolen and other private information accessed, (ii) experience substantial loss of revenues, repair and restoration costs, implementation costs for additional security measures to avert future cyberattacks and other financial loss and (iii) be subject to increased regulation, litigation and reputational damage.

Failure to attract and retain an appropriately qualified workforce could unfavorably impact the Duke Energy Registrants' results of operations.

Certain events, such as an aging workforce, mismatch of skill set or complement to future needs, or unavailability of contract resources may lead to operating challenges and increased costs. The challenges include lack of resources, loss of knowledge base and the lengthy time required for skill development. In this case, costs, including costs for contractors to replace employees, productivity costs and safety costs, may increase. Failure to hire and adequately train replacement employees, including the transfer of significant internal historical knowledge and expertise to new employees, or future availability and cost of contract labor may adversely affect the ability to

manage and operate the business, especially considering the workforce needs associated with nuclear generation facilities and new skills required to operate a modernized, technology-enabled power grid. If the Duke Energy Registrants are unable to successfully attract and retain an appropriately qualified workforce, their financial position, results of operations or cash flows could be negatively affected.

The costs of retiring Duke Energy Florida's Crystal River Unit 3 could prove to be more extensive than is currently identified.

Costs to retire and decommission the plant could exceed estimates and, if not recoverable through the regulatory process, could adversely affect Duke Energy's, Progress Energy's and Duke Energy Florida's financial condition, results of operations and cash flows.

Duke Energy Ohio's and Duke Energy Indiana's membership in an RTO presents risks that could have a material adverse effect on their results of operations, financial condition and cash flows.

The rules governing the various regional power markets may change, which could affect Duke Energy Ohio's and Duke Energy Indiana's costs and/or revenues. To the degree Duke Energy Ohio and Duke Energy Indiana incur significant additional fees and increased costs to participate in an RTO, their results of operations may be impacted. Duke Energy Ohio and Duke Energy Indiana may be allocated a portion of the cost of transmission facilities built by others due to changes in RTO transmission rate design. Duke Energy Ohio and Duke Energy Indiana may be required to expand their transmission system according to decisions made by an RTO rather than their own internal planning process. While RTO transmission rates were initially designed to be revenue neutral, various proposals and proceedings currently taking place by the FERC may cause transmission rates to change from time to time. In addition, RTOs have been developing rules associated with the allocation and methodology of assigning costs associated with improved transmission reliability, reduced transmission congestion and firm transmission rights that may have a financial impact on Duke Energy Ohio and Duke Energy Indiana.

As members of an RTO, Duke Energy Ohio and Duke Energy Indiana are subject to certain additional risks, including those associated with the allocation among RTO members, of losses caused by unreimbursed defaults of other participants in the RTO markets and those associated with complaint cases filed against an RTO that may seek refunds of revenues previously earned by RTO members.

The Duke Energy Registrants may not recover costs incurred to begin construction on projects that are canceled.

Duke Energy's long-term strategy requires the construction of new projects, either wholly owned or partially owned, which involve a number of risks, including construction delays, nonperformance by equipment and other third party suppliers, and increases in equipment and labor costs. To limit the risks of these construction projects, the Duke Energy Registrants enter into equipment purchase orders and construction contracts and incur engineering and design service costs in advance of receiving necessary regulatory approvals and/or siting or environmental permits. If any of these projects are canceled for any reason, including failure to receive necessary regulatory approvals and/or siting or environmental permits, significant cancellation penalties under the equipment purchase orders and construction contracts could occur. In addition, if any construction work or investments have been recorded as an asset, an impairment may need to be recorded in the event the project is canceled.

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NUCLEAR GENERATION RISKS

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida may incur substantial costs and liabilities due to their ownership and operation of nuclear generating facilities.

Ownership interest in and operation of nuclear stations by Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida subject them to various risks. These risks include, among other things: the potential harmful effects on the environment and human health resulting from the current or past operation of nuclear facilities and the storage, handling and disposal of radioactive materials; limitations on the amounts and types of insurance commercially available to cover losses that might arise in connection with nuclear operations; and uncertainties with respect to the technological and financial aspects of decommissioning nuclear plants at the end of their licensed lives.

Ownership and operation of nuclear generation facilities requires compliance with licensing and safety-related requirements imposed by the NRC. In the event of non-compliance, the NRC may increase regulatory oversight, impose fines or shut down a unit depending upon its assessment of the severity of the situation. Revised security and safety requirements promulgated by the NRC, which could be prompted by, among other things, events within or outside of the control of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, such as a serious nuclear incident at a facility owned by a third party, could necessitate substantial capital and other expenditures, as well as assessments to cover third-party losses. In addition, if a serious nuclear incident were to occur, it could have a material adverse effect on the results of operations, financial condition, cash flows and reputation of the Duke Energy Registrants.

LIQUIDITY, CAPITAL REQUIREMENTS AND COMMON STOCK RISKS

The Duke Energy Registrants rely on access to short-term borrowings and longer-term debt and equity markets to finance their capital requirements and support their liquidity needs. Access to those markets can be adversely affected by a number of conditions, many of which are beyond the Duke Energy Registrants' control.

The Duke Energy Registrants' businesses are significantly financed through issuances of debt and equity. The maturity and repayment profile of debt used to finance investments often does not correlate to cash flows from their assets. Accordingly, as a source of liquidity for capital requirements not satisfied by the cash flows from their operations and to fund investments originally financed through debt instruments with disparate maturities, the Duke Energy Registrants rely on access to short-term money markets as well as longer-term capital markets. The Subsidiary Registrants also rely on access to short-term intercompany borrowings. If the Duke Energy Registrants are not able to access debt or equity at competitive rates or at all, the ability to finance their operations and implement their strategy and business plan as scheduled could be adversely affected. An inability to access debt and equity may limit the Duke Energy Registrants' ability to pursue improvements or acquisitions that they may otherwise rely on for future growth.

Market disruptions may increase the cost of borrowing or adversely affect the ability to access one or more financial markets. Such disruptions could include: economic downturns, the bankruptcy of an unrelated energy company, unfavorable capital market conditions, market prices for electricity and natural gas, actual or threatened terrorist attacks, or the overall health of the energy industry. The availability of credit under Duke Energy's Master Credit Facility depends upon the ability of the banks providing commitments under the facility to provide funds when their obligations to do so arise. Systematic risk of the banking system and the financial markets could prevent a bank from meeting its obligations under the facility agreement.

Duke Energy maintains a revolving credit facility to provide backup for its commercial paper program and letters of credit to support variable rate demand tax-exempt bonds that may be put to the Duke Energy Registrant issuer at the option of the holder. The facility includes borrowing sublimits for the Duke Energy Registrants, each of whom is a party to the credit facility, and financial covenants that limit the amount of debt that can be outstanding as a percentage of the total capital for the specific entity. Failure to maintain these covenants at a particular entity could preclude Duke Energy from issuing commercial paper or the Duke Energy Registrants from issuing letters of credit or borrowing under the Master Credit Facility.

The Duke Energy Registrants must meet credit quality standards and there is no assurance they will maintain investment grade credit ratings. If the Duke Energy Registrants are unable to maintain investment grade credit ratings, they would be required under credit agreements to provide collateral in the form of letters of credit or cash, which may materially adversely affect their liquidity.

Each of the Duke Energy Registrants' senior long-term debt issuances is currently rated investment grade by various rating agencies. The Duke Energy Registrants cannot ensure their senior long-term debt will be rated investment grade in the future.

If the rating agencies were to rate the Duke Energy Registrants below investment grade, borrowing costs would increase, perhaps significantly. In addition, the potential pool of investors and funding sources would likely decrease. Further, if the short-term debt rating were to fall, access to the commercial paper market could be significantly limited.

A downgrade below investment grade could also require the posting of additional collateral in the form of letters of credit or cash under various credit, commodity and capacity agreements and trigger termination clauses in some interest rate derivative agreements, which would require cash payments. All of these events would likely reduce the Duke Energy Registrants' liquidity and profitability and could have a material effect on their financial position, results of operations or cash flows.

Non-compliance with debt covenants or conditions could adversely affect the Duke Energy Registrants' ability to execute future borrowings.

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements.

Market performance and other changes may decrease the value of the NDTF investments of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, which then could require significant additional funding.

Ownership and operation of nuclear generation facilities also requires the maintenance of funded trusts that are intended to pay for the decommissioning costs of the respective nuclear power plants. The performance of the capital markets affects the values of the assets held in trust to satisfy these future obligations. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida have significant obligations in this area and hold significant assets in these trusts. These assets are subject to market fluctuations and will yield uncertain returns, which may fall below projected rates of return. Although a number of factors impact funding requirements, a decline in the market value of the assets may increase the funding requirements of the obligations for decommissioning nuclear plants. If Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are unable to successfully manage their NDTF assets, their financial condition, results of operations and cash flows could be negatively affected.

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Poor investment performance of the Duke Energy pension plan holdings and other factors impacting pension plan costs could unfavorably impact the Duke Energy Registrants' liquidity and results of operations.

The costs of providing non-contributory defined benefit pension plans are dependent upon a number of factors, such as the rates of return on plan assets, discount rates, the level of interest rates used to measure the required minimum funding levels of the plans, future government regulation and required or voluntary contributions made to the plans. The Subsidiary Registrants are allocated their proportionate share of the cost and obligations related to these plans. Without sustained growth in the pension investments over time to increase the value of plan assets and, depending upon the other factors impacting costs as listed above, Duke Energy could be required to fund its plans with significant amounts of cash. Such cash funding obligations, and the Subsidiary Registrants' proportionate share of such cash funding obligations, could have a material impact on the Duke Energy Registrants' financial position, results of operations or cash flows.

Duke Energy is a holding company and depends on the cash flows from its subsidiaries to meet its financial obligations.

Because Duke Energy is a holding company with no operations or cash flows of its own, its ability to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on its common stock, is primarily dependent on the net income and cash flows of its subsidiaries and the ability of those subsidiaries to pay upstream dividends or to repay borrowed funds. Prior to funding Duke Energy, its subsidiaries have regulatory restrictions and financial obligations that must be satisfied. These subsidiaries are separate legal entities and have no obligation to provide Duke Energy with funds. In addition, Duke Energy may provide capital contributions or debt financing to its subsidiaries under certain circumstances, which would reduce the funds available to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on Duke Energy's common stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

ELECTRIC UTILITIES AND INFRASTRUCTURE

The following table provides information related to the Electric Utilities and Infrastructure's generation stations as of December 31, 2017. The MW displayed in the table below are based on summer capacity. Ownership interest in all facilities is 100 percent unless otherwise indicated.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Carolinas				
Oconee	Nuclear	Uranium	SC	2,554
McGuire	Nuclear	Uranium	NC	2,316
Catawba ^(a)	Nuclear	Uranium	SC	445
Belews Creek	Fossil	Coal	NC	2,220
Marshall	Fossil	Coal	NC	2,058
J.E. Rogers	Fossil	Coal	NC	1,388
Lincoln Combustion Turbine (CT)	Fossil	Gas/Oil	NC	1,193
Allen	Fossil	Coal	NC	1,098
Rockingham CT	Fossil	Gas/Oil	NC	825
Buck Combined Cycle (CC)	Fossil	Gas	NC	668
Dan River CC	Fossil	Gas	NC	662
Mill Creek CT	Fossil	Gas/Oil	SC	563
W.S. Lee	Fossil	Gas	SC	170
W.S. Lee CT	Fossil	Gas/Oil	SC	84
Bad Creek	Hydro	Water	SC	1,360
Jocassee	Hydro	Water	SC	780
Cowans Ford	Hydro	Water	NC	324
Keowee	Hydro	Water	SC	152
Other small facilities (25 plants)	Hydro	Water	NC/SC	669
Distributed generation	Renewable	Solar	NC	39
Total Duke Energy Carolinas				19,568

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Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Progress				
Brunswick	Nuclear	Uranium	NC	1,870
Harris	Nuclear	Uranium	NC	928
Robinson	Nuclear	Uranium	SC	741
Roxboro	Fossil	Coal	NC	2,439
Smith CC	Fossil	Gas/Oil	NC	1,073
H.F. Lee CC	Fossil	Gas/Oil	NC	888
Wayne County CT	Fossil	Gas/Oil	NC	857
Smith CT	Fossil	Gas/Oil	NC	772
Darlington CT	Fossil	Gas/Oil	SC	664
Mayo	Fossil	Coal	NC	727
L.V. Sutton CC	Fossil	Gas/Oil	NC	607
Asheville	Fossil	Coal	NC	378
Asheville CT	Fossil	Gas/Oil	NC	320
Weatherspoon CT	Fossil	Gas/Oil	NC	124
L.V. Sutton CT (Black Start)	Fossil	Gas/Oil	NC	80
Blewett CT	Fossil	Oil	NC	52
Walters	Hydro	Water	NC	112
Other small facilities (three plants)	Hydro	Water	NC	115
Distributed generation	Renewable	Solar	NC	62
Total Duke Energy Progress				12,809
Duke Energy Florida				
Crystal River	Fossil	Coal	FL	2,188
Hines CC	Fossil	Gas/Oil	FL	2,032
Bartow CC	Fossil	Gas/Oil	FL	1,080
Anclote	Fossil	Gas	FL	1,013
Intercession City CT	Fossil	Gas/Oil	FL	951
Osprey CC	Fossil	Gas/Oil	FL	582
DeBary CT	Fossil	Gas/Oil	FL	561
Tiger Bay CC	Fossil	Gas/Oil	FL	200
Bartow CT	Fossil	Gas/Oil	FL	168
Bayboro CT	Fossil	Oil	FL	171
Suwannee River CT	Fossil	Gas	FL	149
Higgins CT	Fossil	Gas/Oil	FL	107
Avon Park CT	Fossil	Gas/Oil	FL	48
University of Florida CoGen CT	Fossil	Gas	FL	47
Distributed generation	Renewable	Solar	FL	8
Total Duke Energy Florida				9,305
Duke Energy Ohio				
East Bend	Fossil	Coal	KY	600
Woodsdale CT	Fossil	Gas/Propane	OH	476
Beckjord Battery Storage	Renewable	Storage	OH	4
Total Duke Energy Ohio				1,080
Duke Energy Indiana				
Gibson ^(b)	Fossil	Coal	IN	2,822
Cayuga ^(c)	Fossil	Coal/Oil	IN	1,005
Edwardsport	Fossil	Coal	IN	595
Madison CT	Fossil	Gas	OH	566
Vermillion CT ^(d)	Fossil	Gas	IN	360
Wheatland CT	Fossil	Gas	IN	450
Noblesville CC	Fossil	Gas/Oil	IN	264
Gallagher	Fossil	Coal	IN	280
Henry County CT	Fossil	Gas/Oil	IN	129
Cayuga CT	Fossil	Gas/Oil	IN	80
Connersville CT	Fossil	Oil	IN	74
Miami Wabash CT	Fossil	Oil	IN	64
Markland	Hydro	Water	IN	45
Distributed generation	Renewable	Solar	IN	10
Total Duke Energy Indiana				6,744

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Totals by Type	Owned MW Capacity
Total Electric Utilities	49,506
Totals By Plant Type	
Nuclear	8,854
Fossil	36,972
Hydro	3,557
Renewable	123
Total Electric Utilities	49,506

- (a) Jointly owned with North Carolina Municipal Power Agency Number 1, North Carolina Electric Membership Corporation and Piedmont Municipal Power Agency. Duke Energy Carolinas' ownership is 19.25 percent of the facility.
 (b) Duke Energy Indiana owns and operates Gibson Station Units 1 through 4 and is a joint owner of unit 5 with Wabash Valley Power Association, Inc. (WVPA) and Indiana Municipal Power Agency. Duke Energy Indiana operates unit 5 and owns 50.05 percent.
 (c) Includes Cayuga Internal Combustion.
 (d) Jointly owned with WVPA. Duke Energy Indiana's ownership is 62.5 percent of the facility.

The following table provides information related to Electric Utilities and Infrastructure's electric transmission and distribution properties as of December 31, 2017.

	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Electric Transmission Lines						
Miles of 500 to 525 kilovolt (kV)	1,100	600	300	200	—	—
Miles of 345 kV	1,700	—	—	—	1,000	700
Miles of 230 kV	8,400	2,700	3,400	1,600	—	700
Miles of 100 to 161 kV	12,300	6,800	2,500	900	700	1,400
Miles of 13 to 69 kV	8,400	3,000	—	2,200	700	2,500
Total conductor miles of electric transmission lines	31,900	13,100	6,200	4,900	2,400	5,300
Electric Distribution Lines						
Miles of overhead lines	174,300	66,600	46,400	25,200	13,700	22,400
Miles of underground line	102,800	37,800	29,400	20,800	5,900	8,900
Total conductor miles of electric distribution lines	277,100	104,400	75,800	46,000	19,600	31,300
Number of electric transmission and distribution substations	3,300	1,500	500	500	300	500

Substantially all of Electric Utilities and Infrastructure's electric plant in service is mortgaged under indentures relating to Duke Energy Carolinas', Duke Energy Progress', Duke Energy Florida's, Duke Energy Ohio's and Duke Energy Indiana's various series of First Mortgage Bonds.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure owns transmission pipelines and distribution mains that are generally underground, located near public streets and highways, or on property owned by others for which Duke Energy Ohio and Piedmont have obtained the necessary legal rights to place and operate facilities on such property located within the Gas Utilities and Infrastructure service territories. The following table provides information related to Gas Utilities and Infrastructure's natural gas distribution.

	Duke Energy	Duke Energy Ohio	Duke Energy Piedmont
Miles of natural gas distribution and transmission pipelines	33,100	7,200	25,900
Miles of natural gas service lines	27,400	6,900	20,500

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COMMERCIAL RENEWABLES

The following table provides information related to Commercial Renewables' electric generation facilities as of December 31, 2017. The MW displayed in the table below are based on nameplate capacity. Ownership interest in all facilities is 100 percent unless otherwise indicated.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Commercial Renewables – Wind				
Los Vientos Windpower (five sites)	Renewable	Wind	TX	912
Top of the World	Renewable	Wind	WY	200
Frontier	Renewable	Wind	OK	200
Notrees	Renewable	Wind	TX	153
Campbell Hill	Renewable	Wind	WY	99
North Allegheny	Renewable	Wind	PA	70
Laurel Hill Wind Energy	Renewable	Wind	PA	69
Ocotillo	Renewable	Wind	TX	59
Kit Carson	Renewable	Wind	CO	51
Silver Sage	Renewable	Wind	WY	42
Happy Jack	Renewable	Wind	WY	29
Shirley	Renewable	Wind	WI	20
Sweetwater IV ^(a)	Renewable	Wind	TX	113
Sweetwater V ^(a)	Renewable	Wind	TX	38
Ironwood ^(a)	Renewable	Wind	KS	84
Cimarron II ^(a)	Renewable	Wind	KS	66
Mesquite Creek ^(a)	Renewable	Wind	TX	106
Total Renewables – Wind				2,311
Commercial Renewables – Solar				
Conetoe II	Renewable	Solar	NC	80
Seville I & II	Renewable	Solar	CA	50
Rio Bravo I & II	Renewable	Solar	CA	40
Wildwood I & II	Renewable	Solar	CA	35
Caprock	Renewable	Solar	NM	25
Kelford	Renewable	Solar	NC	22
Highlander	Renewable	Solar	CA	21
Dogwood	Renewable	Solar	NC	20
Halifax Airport	Renewable	Solar	NC	20
Pasquotank	Renewable	Solar	NC	20
Pumpjack	Renewable	Solar	CA	20
Shawboro	Renewable	Solar	NC	20
Longboat	Renewable	Solar	CA	20
Bagdad	Renewable	Solar	AZ	15
TX Solar	Renewable	Solar	TX	14
Creswell Alligood	Renewable	Solar	NC	14
Victory	Renewable	Solar	CO	13
Washington White Post	Renewable	Solar	NC	12
Whitakers	Renewable	Solar	NC	12
Other small solar	Renewable	Solar	Various	123
Total Renewables – Solar				596
Total Commercial Renewables				2,907

(a) Commercial Renewables owns 47 percent of Sweetwater IV and V and 50 percent of Ironwood, Cimarron II and Mesquite Creek.

PART I

OTHER

Duke Energy owns approximately 8 million square feet and leases approximately 2 million square feet of corporate, regional and district office space spread throughout its service territories.

ITEM 3. LEGAL PROCEEDINGS

For information regarding legal proceedings, including regulatory and environmental matters, see Note 4, "Regulatory Matters," and Note 5, "Commitments and Contingencies," to the Consolidated Financial Statements.

MTBE Litigation

On June 19, 2014, the Commonwealth of Pennsylvania filed suit against, among others, Duke Energy Merchants, alleging contamination of "waters of the state" by MTBE from leaking gasoline storage tanks. MTBE is a gasoline additive intended to increase the oxygen level in gasoline and make it burn cleaner. The lawsuit was moved to federal court and consolidated into an existing multidistrict litigation docket of pending MTBE cases. This suit was settled for an immaterial amount in December 2017.

In December 2017, the state of Maryland filed a lawsuit in Baltimore City Circuit Court against Duke Energy Merchants and other defendants alleging contamination of its water supplies from MTBE. Discovery is underway. Duke Energy cannot predict the outcome of this matter.

ITEM 4. MINE SAFETY DISCLOSURES

This is not applicable for any of the Duke Energy Registrants.

PART II

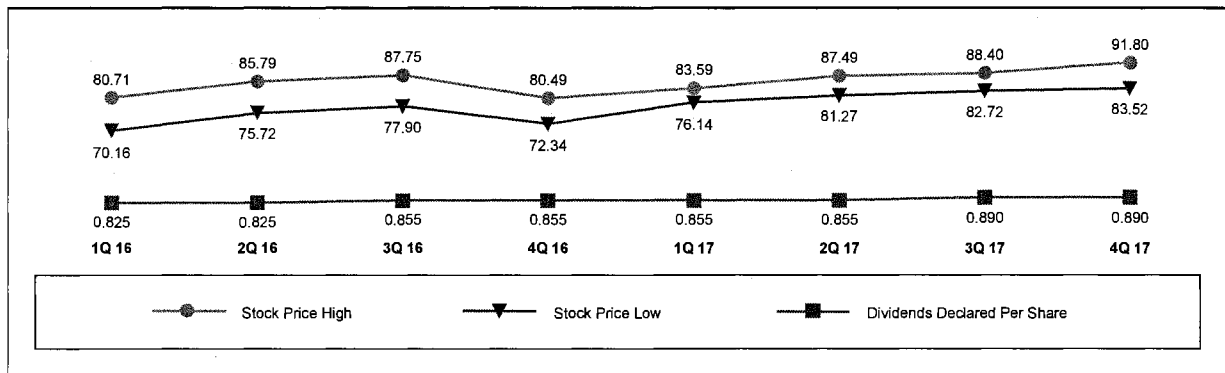
ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

The common stock of Duke Energy is listed and traded on the New York Stock Exchange (NYSE) (ticker symbol DUK). As of January 31, 2018, there were 166,271 Duke Energy common stockholders of record.

There is no market for common stock of the Subsidiary Registrants, all of which is owned by Duke Energy.

Common Stock Data by Quarter

The following chart provides Duke Energy common stock trading prices as reported on the NYSE and information on common stock dividends declared. Stock prices represent the intraday high and low stock price.



Duke Energy expects to continue its policy of paying regular cash dividends; however, there is no assurance as to the amount of future dividends as they depend on future earnings, capital requirements and financial condition, and are subject to declaration by the Duke Energy Board of Directors.

Duke Energy's operating subsidiaries have certain restrictions on their ability to transfer funds in the form of dividends or loans to Duke Energy. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for further information regarding these restrictions.

Securities Authorized for Issuance Under Equity Compensation Plans

See Item 12 of Part III within this Annual Report for information regarding Securities Authorized for Issuance Under Equity Compensation Plans.

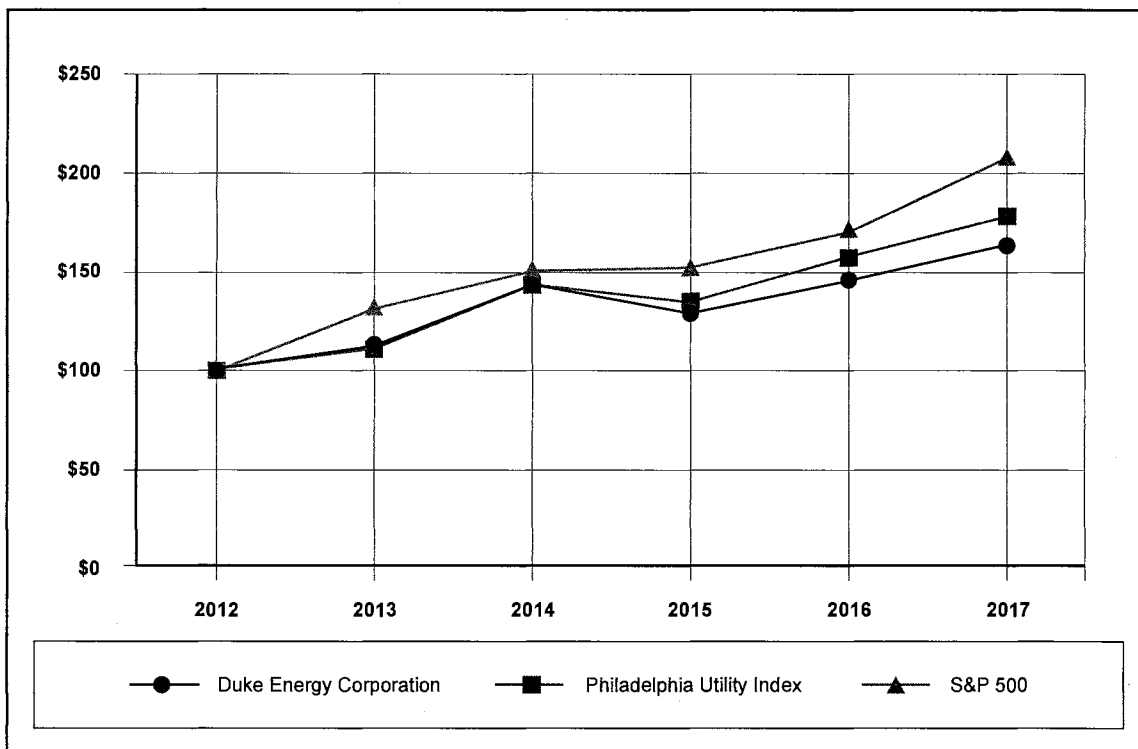
Issuer Purchases of Equity Securities for Fourth Quarter 2017

There were no repurchases of equity securities during the fourth quarter of 2017.

PART II

Stock Performance Graph

The following performance graph compares the cumulative total shareholder return from Duke Energy Corporation common stock, as compared with the Standard & Poor's 500 Stock Index (S&P 500) and the Philadelphia Utility Sector Index (Philadelphia Utility Index) for the past five years. The graph assumes an initial investment of \$100 on December 31, 2012, in Duke Energy common stock, in the S&P 500 and in the Philadelphia Utility Index and that all dividends were reinvested. The stockholder return shown below for the five-year historical period may not be indicative of future performance.



NYSE CEO Certification

Duke Energy has filed the certification of its Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 as exhibits to this Annual Report on Form 10-K for the year ended December 31, 2017.

PART II

ITEM 6. SELECTED FINANCIAL DATA

The following table provides selected financial data for the years of 2013 through 2017. See also Item 7.

(in millions, except per share amounts)	2017	2016	2015	2014	2013
Statement of Operations^(a)					
Total operating revenues	\$ 23,565	\$ 22,743	\$ 22,371	\$ 22,509	\$ 21,211
Operating income	5,781	5,341	5,078	4,842	4,305
Income from continuing operations	3,070	2,578	2,654	2,538	2,278
(Loss) Income from discontinued operations, net of tax	(6)	(408)	177	(649)	398
Net income	3,064	2,170	2,831	1,889	2,676
Net income attributable to Duke Energy Corporation	3,059	2,152	2,816	1,883	2,665
Common Stock Data					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 4.37	\$ 3.71	\$ 3.80	\$ 3.58	\$ 3.21
Diluted	4.37	3.71	3.80	3.58	3.21
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ (0.01)	\$ (0.60)	\$ 0.25	\$ (0.92)	\$ 0.56
Diluted	(0.01)	(0.60)	0.25	(0.92)	0.55
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 4.36	\$ 3.11	\$ 4.05	\$ 2.66	\$ 3.77
Diluted	4.36	3.11	4.05	2.66	3.76
Dividends declared per share of common stock	3.49	3.36	3.24	3.15	3.09
Balance Sheet					
Total assets	\$ 137,914	\$ 132,761	\$ 121,156	\$ 120,557	\$ 114,779
Long-term debt including capital leases, less current maturities	49,035	45,576	36,842	36,075	37,065

(a) Significant transactions reflected in the results above include: (i) the sale of the International Disposal Group in 2016, including a loss on sale recorded within discontinued operations (see Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions") (ii) the acquisition of Piedmont in 2016, including losses on interest rate swaps related to the acquisition financing (see Note 2); (iii) 2014 impairment related to the disposal of the Midwest Generation Disposal Group; (iv) 2014 incremental tax expense resulting from the decision to repatriate all cumulative historical undistributed foreign earnings; (v) 2014 increase in the litigation reserve related to a criminal investigation of the Dan River release; (vi) 2013 charges related to Crystal River Unit 3 and nuclear development costs; and (vii) costs to achieve mergers in all periods.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Management's Discussion and Analysis includes financial information prepared in accordance with generally accepted accounting principles (GAAP) in the United States (U.S.), as well as certain non-GAAP financial measures such as adjusted earnings and adjusted earnings per share discussed below. Generally, a non-GAAP financial measure is a numerical measure of financial performance, financial position or cash flows that excludes (or includes) amounts that are included in (or excluded from) the most directly comparable measure calculated and presented in accordance with GAAP. The non-GAAP financial measures should be viewed as a supplement to, and not a substitute for, financial measures presented in accordance with GAAP. Non-GAAP measures as presented herein may not be comparable to similarly titled measures used by other companies.

The following combined Management's Discussion and Analysis of Financial Condition and Results of Operations is separately filed by Duke Energy Corporation (collectively with its subsidiaries, Duke Energy) and its subsidiaries Duke Energy Carolinas, LLC (Duke Energy Carolinas), Progress Energy, Inc. (Progress Energy), Duke Energy Progress, LLC (Duke Energy Progress), Duke Energy Florida, LLC (Duke Energy Florida), Duke Energy Ohio, Inc. (Duke Energy Ohio), Duke Energy Indiana, LLC (Duke Energy Indiana) and Piedmont Natural Gas Company, Inc. (Piedmont). However, none of the registrants make any representation as to information related solely to Duke Energy or the subsidiary registrants of Duke Energy other than itself. Subsequent to Duke Energy's acquisition of Piedmont on October 3, 2016, Piedmont is a wholly owned subsidiary of Duke Energy. The financial information for Duke Energy includes results of Piedmont subsequent to October 3, 2016. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding the acquisition.

DUKE ENERGY

Duke Energy is an energy company headquartered in Charlotte, North Carolina. Duke Energy operates in the U.S. primarily through its wholly owned subsidiaries, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of the Subsidiary Registrants, which, along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Management's Discussion and Analysis should be read in conjunction with the Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

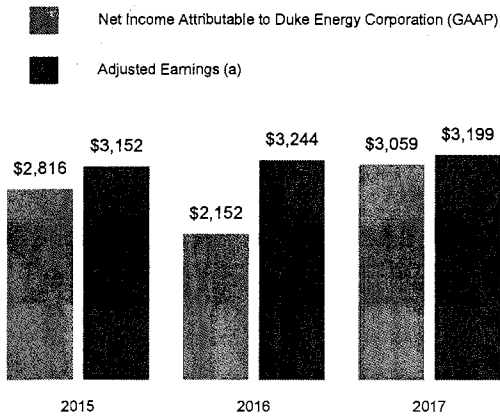
Executive Overview

With our multiyear portfolio transition complete, we operated in 2017 as a domestic, regulated energy infrastructure business. Our long-term view provides a compelling vision to advance our strategy, leveraging scale and a focused portfolio to deliver a reliable dividend with 4 to 6 percent earnings per share (EPS) growth during our five year planning horizon. We have made progress advancing our long-term strategy to invest in our growth drivers of cleaner energy, grid modernization and natural gas infrastructure, while also improving customer satisfaction.

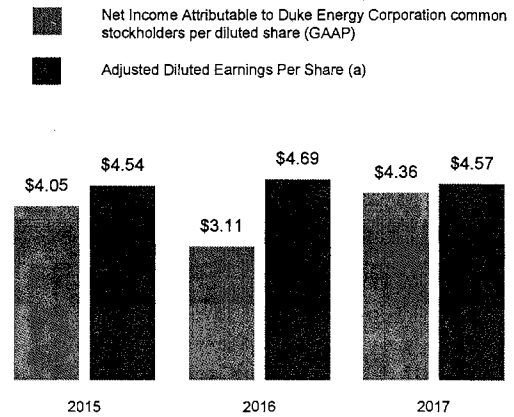
PART II

Financial Results

Annual Earnings (in millions)



Annual Earnings Per Diluted Share



(a) See Results of Operations below for Duke Energy's definition of adjusted earnings and adjusted earnings per share as well as a reconciliation of this non-GAAP financial measure to net income attributable to Duke Energy and net income attributable to Duke Energy per diluted share.

Duke Energy's 2017 GAAP reported earnings were impacted by unfavorable weather and the absence of International Energy partially offset by growth in the electric and gas businesses, including the addition of a full year's earnings contribution from Piedmont and ongoing cost management efforts. See "Results of Operations" below for a detailed discussion of the consolidated results of operations, as well as a detailed discussion of financial results for each of Duke Energy's reportable business segments, as well as Other.

2017 Areas of Focus and Accomplishments

Duke Energy advanced a number of important strategic initiatives to transform its energy future with a focus on customers, employees, operations and growth. The company has responded to an environment of changing customer demands by investing in electric and natural gas infrastructure that customers value and that provide an opportunity for sustainable growth.

Portfolio Transition. On October 3, 2016, Duke Energy completed the acquisition of Piedmont, a North Carolina corporation primarily engaged in regulated natural gas distribution to residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee. In December 2016, Duke Energy completed the sale of its Latin American generation businesses in two separate transactions. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding these transactions.

With the acquisition of Piedmont and the sale of International Energy, Duke Energy completed a multiyear portfolio transition. The Piedmont acquisition reflects the growing importance of natural gas to the future of the energy infrastructure within the company's service territory and throughout the U.S. and establishes a strategic platform for future growth in natural gas infrastructure. The growth opportunities reflected in our 10-year strategy are expected to increase the earnings contributions from the natural gas business from 8 percent to 15 percent.

Operational Excellence. Duke Energy continues to focus on the safe and efficient operation of its generation fleet. During 2017, we delivered strong overall safety and environmental performance, with our key employee safety metric, total incident case rate, and our reportable environmental events both improving from last year. Our nuclear and fossil/hydro generation fleets demonstrated strong performance, exceeding their respective reliability targets.

Storm Response and System Restoration. Hurricane Irma, in October 2017, was one of the most powerful storms ever to hit the southern U.S. During Hurricane Irma, over 1.3 million customers in Florida were without power. Our restoration efforts involved coordination and communication with more than 12,000 line and fieldworkers and our team restored power to 99 percent of customers within eight days.

Customer Satisfaction. Higher J.D. Power residential customer satisfaction scores in 2017 reflect progress in the company's efforts to meet customers' expectations. The work to improve customer satisfaction will continue, but all jurisdictions remain on track to make steady gains in the years ahead as Duke Energy continues to transform the customer experience through its Customer Connect Program.

Constructive Regulatory Outcomes. One of our long-term strategic goals is to achieve modernized regulatory constructs in all of our jurisdictions within 10 years. Modernized constructs provide a number of benefits, including improved earnings and cash flows through more timely recovery of investments, as well as stable pricing for customers. We filed several base rate cases during 2017 to recover a range of strategic investments, such as customer service technologies, coal ash costs in the Carolinas, smart meters, natural gas and solar generation. We continue to pursue additional legislative and regulatory outcomes, both in Washington and across our service territories, that make sense for our customers and investors.

PART II

Cost Management and Efficiencies. Duke Energy has a demonstrated track record of driving efficiencies and productivity, including merger integration and continuous improvement efforts. These efficiencies will help in Duke Energy's objective to keep overall customer rates below the national average, while moderating customer bill increases over time. We are on track to exceed targeted Piedmont merger cost synergies without significant disruptions to the business or culture, integrating the Piedmont and Midwest natural gas operations, and moving to a shared services model. We continue to leverage new technology and data analytics to drive additional efficiencies across the business.

Dividend Growth. In 2017, Duke Energy continued to grow the dividend payment to shareholders by approximately 4 percent. 2017 represented the 91st consecutive year Duke Energy paid a cash dividend on its common stock.

Duke Energy Objectives -- 2018 and Beyond

Duke Energy will continue to deliver exceptional value to customers, be an integral part of the communities in which it does business, and provide attractive returns to investors. Duke Energy is committed to lead the way to cleaner, smarter energy solutions that customers value through a strategy focused on:

- Transformation of the customer experience to meet changing customer expectations through enhanced convenience, control and choice in energy supply and usage.
- Modernization of the electric grid, including smart meters, storm hardening, self-healing and targeted undergrounding to ensure the system is better prepared for severe weather and to improve the system's reliability and flexibility, as well as to provide better information and services for customers.
- Generation of cleaner energy through an increased amount of natural gas, renewables generation and the continued safe and reliable operation of nuclear plants.
- Expansion of natural gas infrastructure, from midstream gas pipelines to local distribution systems.
- Operational excellence through engagement with employees and being an industry leader in safety performance and efficient operations.
- Stakeholder engagement to ensure the regulatory rules in the states in which Duke Energy operates benefit customers and allow Duke Energy to recover its significant investments in a timely manner while maintaining affordable rates.
- Engagement with regulatory commissions to determine the regulatory treatment of the impact of the Tax Act.

Primary objectives toward the implementation of this strategy include:

Growth Initiatives. Growth in the Electric Utilities and Infrastructure business is expected to be supported by the investment of significant capital in the electric transmission and distribution grid, and in cleaner, more efficient generation. Duke Energy expects to invest approximately \$30 billion in Electric Utilities and Infrastructure growth projects over the next five years (2018-2022), continuing its efforts to generate cleaner energy. Duke Energy intends to work constructively with regulators to evaluate the current regulatory construct and seek modernized recovery solutions, such as riders, rate decoupling and multiyear rate plans, that benefit both customers and shareholders.

Investment projects at Electric Utilities and Infrastructure currently underway that will support growth initiatives include:

- Duke Energy Indiana's \$1.4 billion grid modernization plan, which is aimed at improving reliability, including fewer outages and quicker restoration.
- Significant investments in combined-cycle natural gas plants, including completing the \$1.5 billion Citrus County plant in Florida, the \$600 million W.S. Lee facility in South Carolina and the \$900 million investment in the Western Carolinas Modernization Project. These investments will allow Duke Energy to replace older, less efficient coal units.
- Duke Energy expects to continue to advance other cleaner energy sources within its regulated electric jurisdictions, including hydro, wind, solar and combined heat and power projects, increasing the flexibility of the system and allowing Duke Energy to continue lowering carbon emissions.
- In North Carolina, HB 589 provides a timely cost recovery mechanism for any solar investments we are able to make through a competitive market process.
- In Florida, as part of the comprehensive multi-year rate settlement, we committed to invest in approximately 700 MW of solar capacity over the next five years and will be authorized to recover the cost of that investment through a single issue base rate increase. We also advanced our strategic priority of energy grid investment, establishing a multiyear recovery method for \$1 billion of grid investments.

Duke Energy expects to invest around \$7 billion growing its Gas Utilities and Infrastructure business over the next five years. Growth in Gas Utilities and Infrastructure will be focused on the following:

- With the acquisition of Piedmont, Duke Energy now operates natural gas distribution businesses across five states. The continued integration of Piedmont, as well as additional investments in the natural gas Local Distribution Company (LDC) system, will help maintain system integrity and expand natural gas distribution to new customers.
- Duke Energy will continue to grow its midstream pipeline business, underpinned by investments in the Atlantic Coast Pipeline, Sabal Trail and Constitution pipeline projects. These highly contracted pipelines will bring much needed, low-cost natural gas supplies to the eastern U.S., spurring economic growth and helping Duke Energy to grow its customer base in the Southeast.

For Commercial Renewables, Duke Energy will continue to pursue long-term contracted wind and solar projects that meet its return criteria.

Cost Management. Duke Energy has a demonstrated track record of driving efficiencies and productivity into the business, leveraging its scale through competitive procurement initiatives, deploying digital transformation and continuing to identify sustainable cost savings as an essential element in response to a transforming industry.

Execute on Coal Ash Management Strategy. Duke Energy will continue the company's compliance strategy with the North Carolina Coal Ash Management Act of 2014 (Coal Ash Act) and Resource Conservation and Recovery Act. Duke Energy will update ash management plans to comply with the appropriate regulations and expand excavation and other compliance work at additional sites once plans and permits are approved.

PART II

Results of Operations

Non-GAAP Measures

Management evaluates financial performance in part based on non-GAAP financial measures, including adjusted earnings and adjusted diluted EPS. These items represent income from continuing operations attributable to Duke Energy, adjusted for the dollar and per share impact of special items. As discussed below, special items include certain charges and credits, which management believes are not indicative of Duke Energy's ongoing performance. Management believes the presentation of adjusted earnings and adjusted diluted EPS provides useful information to investors, as it provides them with an additional relevant comparison of Duke Energy's performance across periods.

Management uses these non-GAAP financial measures for planning and forecasting, and for reporting financial results to the Duke Energy Board of Directors (Board of Directors), employees, stockholders, analysts and investors. Adjusted diluted EPS is also used as a basis for employee incentive bonuses. The most directly comparable GAAP measures for adjusted earnings and adjusted diluted EPS are Net Income Attributable to Duke Energy Corporation (GAAP Reported Earnings) and Diluted EPS Attributable to Duke Energy Corporation common stockholders (GAAP Reported EPS), respectively.

Special items included in the periods presented include the following, which management believes do not reflect ongoing costs:

- Costs to Achieve Mergers represents charges that result from strategic acquisitions.

- Cost Savings Initiatives represent severance charges related to company-wide initiatives, excluding merger integration, to standardize processes and systems, leverage technology and workforce optimization.
- Regulatory Settlements in 2017 represent charges related to the Levy nuclear project in Florida and the Mayo Zero Liquid Discharge and Sutton combustion turbine projects in North Carolina. The 2015 amount represents charges related to the IGCC Settlement.
- Commercial Renewables Impairments represent other-than-temporary, asset and goodwill impairments.
- Impacts of the Tax Act represent estimated amounts recognized related to the Tax Cuts and Jobs Act.
- Ash Basin Settlement and Penalties represent charges related to Plea Agreements and settlement agreements with regulators and other governmental entities.

Adjusted earnings also include the operating results of the nonregulated Midwest generation business and Duke Energy Retail Sales (collectively, the Midwest Generation Disposal Group) and the International Disposal Group, which have been classified as discontinued operations. Management believes inclusion of the operating results of the Disposal Groups within adjusted earnings and adjusted diluted EPS results in a better reflection of Duke Energy's financial performance during the period.

Duke Energy's adjusted earnings and adjusted diluted EPS may not be comparable to similarly titled measures of another company because other companies may not calculate the measures in the same manner.

Reconciliation of GAAP Reported Amounts to Adjusted Amounts

The following table presents a reconciliation of adjusted earnings and adjusted diluted EPS to the most directly comparable GAAP measures.

(in millions, except per share amounts)	Years Ended December 31,					
	2017		2016		2015	
	Earnings	EPS	Earnings	EPS	Earnings	EPS
GAAP Reported Earnings/EPS	\$ 3,059	\$ 4.36	\$ 2,152	\$ 3.11	\$ 2,816	\$ 4.05
Adjustments to Reported:						
Costs to Achieve Mergers	64	0.09	329	0.48	60	0.09
Regulatory Settlements	98	0.14	—	—	58	0.08
Commercial Renewables Impairments	74	0.11	45	0.07	—	—
Impacts of the Tax Act ^(c)	(102)	(0.14)	—	—	—	—
Cost Savings Initiatives	—	—	57	0.08	88	0.13
Ash Basin Settlement and Penalties	—	—	—	—	11	0.02
Discontinued Operations ^{(a)(b)}	6	0.01	661	0.95	119	0.17
Adjusted Earnings/Adjusted Diluted EPS	\$ 3,199	\$ 4.57	\$ 3,244	\$ 4.69	\$ 3,152	\$ 4.54

- (a) For 2016, includes a loss on sale of the International Disposal Group. Represents the GAAP reported Loss from Discontinued Operations, less the International Disposal Group operating results, which are included in adjusted earnings.
- (b) For 2015, includes the impact of a litigation reserve related to the Midwest Generation Disposal Group. Represents (i) GAAP reported Income from Discontinued Operations, less the International Disposal Group operating results and Midwest Generation Disposal Group operating results, which are included in adjusted earnings, and (ii) a state tax charge resulting from the completion of the sale of the Midwest Generation Disposal Group but not reported as discontinued operations.
- (c) The Tax Act reduced the corporate income tax rate from 35 percent to 21 percent, effective January 1, 2018. As the tax change was enacted in 2017, Duke Energy is required to remeasure its existing deferred tax assets and liabilities at the lower rate. For Duke Energy's regulated operations, where the reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability.

PART II

Year Ended December 31, 2017, as compared to 2016

Duke Energy's full-year 2017 GAAP Reported EPS was \$4.36 compared to \$3.11 for full-year 2016. In addition to the adjusted diluted EPS drivers discussed below, GAAP Reported EPS in 2017 was higher primarily due to a \$0.14 benefit per share related to the Tax Act in 2017, lower costs to achieve the Piedmont merger and a loss on sale and impairments associated with the sale of the International Disposal Group in 2016, partially offset by charges of \$0.14 related to regulatory settlements in Electric Utilities and Infrastructure.

As discussed, management also evaluates financial performance based on adjusted earnings. Duke Energy's full-year 2017 adjusted diluted EPS was \$4.57 compared to \$4.69 for full-year 2016. The decrease in adjusted diluted EPS was primarily due to:

- Lower regulated electric revenues of \$0.26 per share due to less favorable weather in the current year, including lost revenues related to Hurricane Irma;
- The prior year operating results from the International Disposal Group, which was sold in December 2016. The 2016 operating results included a benefit from the valuation of deferred income taxes. See Note 22 to the Consolidated Financial Statements, "Income Taxes," for additional information;
- Higher financing costs, primarily due to the Piedmont acquisition; and
- Higher depreciation and amortization expense at Electric Utilities and Infrastructure primarily due to higher depreciable base.

Partially offset by:

- Higher regulated electric revenues from increased pricing and riders driven by new rates in Duke Energy Progress South Carolina, base rate adjustments in Florida and energy efficiency rider revenues in North Carolina, as well as growth in weather-normal retail volumes;
- Lower operations, maintenance and other expenses, net of amounts recoverable in rates, at Electric Utilities and Infrastructure resulting from ongoing cost efficiency efforts and lower year-to-date storm costs than the prior year; and
- Additional earnings from incremental investments in Atlantic Coast Pipeline, LLC (ACP) and Sabal Trail natural gas pipelines.

Year Ended December 31, 2016, as compared to 2015

Duke Energy's full-year 2016 GAAP Reported EPS was \$3.11 compared to \$4.05 for full-year 2015. GAAP Reported EPS was lower primarily due to a \$0.93 loss on sale of the International business, which has been presented as discontinued operations. Duke Energy also recorded \$0.40 of after-tax costs to achieve the Piedmont merger in 2016, including losses on interest rate swaps related to the acquisition financing. See Note 2, "Acquisitions and Dispositions," for additional information on the Piedmont and International transactions.

As discussed, management also evaluates financial performance based on adjusted earnings. Duke Energy's full-year 2016 adjusted diluted EPS was \$4.69 compared to \$4.54 for full-year 2015. The variance in adjusted diluted EPS was primarily due to:

- More favorable weather in 2016 compared to 2015;
- Increased retail revenues from pricing and riders, including energy efficiency programs;
- Strong operations and maintenance cost control at Electric Utilities and Infrastructure; and
- Piedmont's earnings contribution subsequent to the acquisition in October 2016.

Partially offset by:

- Higher storm costs at Electric Utilities and Infrastructure due to significant 2016 storms;
- Higher interest expense related to additional debt outstanding; and
- Higher depreciation and amortization expense at Electric Utilities and Infrastructure primarily due to higher depreciable base.

SEGMENT RESULTS

The remaining information presented in this discussion of results of operations is on a GAAP basis. Management evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income includes intercompany revenues and expenses that are eliminated in the Consolidated Financial Statements.

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. See Note 3 to the Consolidated Financial Statements, "Business Segments," for additional information on Duke Energy's segment structure.

Tax Cuts and Jobs Act (the Tax Act)

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowers the corporate federal income tax rate from 35 percent to 21 percent, limits interest deductions outside of regulated utility operations, and eliminates bonus depreciation for regulated utilities, effective January 1, 2018. The Tax Act also could be amended or subject to technical correction, which could change the financial impacts that were recorded at December 31, 2017, or are expected to be recorded in future periods. See Note 22 to the Consolidated Financial Statements, "Income Taxes," for additional information on the Tax Act. The FERC and state utility commissions will determine the regulatory treatment of the impacts of the Tax Act for the Subsidiary Registrants. Duke Energy's segments' future results of operations, financial condition and cash flows could be adversely impacted by the Tax Act, subsequent amendments or corrections, or the actions of the FERC, state utility commissions or credit rating agencies related to the Tax Act. Duke Energy is reviewing orders to address the rate treatment of the Tax Act by each state utility commission in which the Subsidiary Registrants operate. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information. Beginning in January 2018, the Subsidiary Registrants will defer the estimated ongoing impacts of the Tax Act that are expected to be returned to customers. See the Credit Ratings section below for additional information on the impact of the Tax Act on the Duke Energy Registrants' credit ratings.

As a result of the Tax Act, Duke Energy revalued its existing deferred tax assets and deferred tax liabilities as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred tax amounts. For Duke Energy's regulated operations, where the net reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information on the Tax Act's impact to the regulatory asset and liability accounts.

PART II

The following table shows the expense (benefit) recorded on Duke Energy's Consolidated Statement of Operations for the year ended December 31, 2017.

(in millions)	Impacts of the Tax Act ^{(a)(b)}
Electric Utilities and Infrastructure ^(c)	\$ (231)
Gas Utilities and Infrastructure ^{(d)(e)}	(26)
Commercial Renewables	(442)
Other ^(f)	597
Total impact of the Tax Act^(d)	\$ (102)

- (a) Except where noted below, amounts are included within Income Tax Expense From Continuing Operations on the Consolidated Statement of Operations.
(b) See Note 4 and Note 22 to the Consolidated Financial Statements, "Regulatory Matters" and "Income Taxes," for information about the Tax Act's impact on Duke Energy's Consolidated Balance Sheets.
(c) Amount primarily relates to the remeasurement of net deferred tax liabilities that are excluded for ratemaking purposes related to abandoned or impaired assets and certain wholesale fixed rate contracts.
(d) Includes a \$15 million expense recorded within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations.
(e) Amount primarily relates to the remeasurement of net deferred tax liabilities that relates to equity method investments and certain wholesale fixed rate contracts.
(f) Amount primarily relates to the remeasurement of Foreign Tax Credits, federal net operating losses and non-regulated deferred tax assets.

Electric Utilities and Infrastructure

(in millions)	Years Ended December 31,				
	2017	2016	Variance 2017 vs. 2016	2015	Variance 2016 vs. 2015
Operating Revenues	\$ 21,331	\$ 21,366	\$ (35)	\$ 21,521	\$ (155)
Operating Expenses					
Fuel used in electric generation and purchased power	6,379	6,595	(216)	7,308	(713)
Operations, maintenance and other	5,196	5,292	(96)	5,138	154
Depreciation and amortization	3,010	2,897	113	2,735	162
Property and other taxes	1,079	1,021	58	1,013	8
Impairment charges	176	16	160	101	(85)
Total operating expenses	15,840	15,821	19	16,295	(474)
Gains on Sales of Other Assets and Other, net	6	—	6	5	(5)
Operating Income	5,497	5,545	(48)	5,231	314
Other Income and Expenses	308	303	5	264	39
Interest Expense	1,240	1,136	104	1,074	62
Income Before Income Taxes	4,565	4,712	(147)	4,421	291
Income Tax Expense	1,355	1,672	(317)	1,602	70
Segment Income	\$ 3,210	\$ 3,040	\$ 170	\$ 2,819	\$ 221
Duke Energy Carolinas Gigawatt-Hours (GWh) sales	87,305	88,545	(1,240)	86,950	1,595
Duke Energy Progress GWh sales	66,822	69,049	(2,227)	64,881	4,168
Duke Energy Florida GWh sales	40,591	40,404	187	40,053	351
Duke Energy Ohio GWh sales	24,639	25,163	(524)	25,439	(276)
Duke Energy Indiana GWh sales	33,145	34,368	(1,223)	33,518	850
Total Electric Utilities and Infrastructure GWh sales	252,502	257,529	(5,027)	250,841	6,688
Net proportional MW capacity in operation	48,828	49,295	(467)	50,170	(875)

Year Ended December 31, 2017, as Compared to 2016

Electric Utilities and Infrastructure's results were impacted by the Tax Act, growth from investments, lower operations and maintenance expense and higher weather-normal retail sales volumes, partially offset by less favorable weather, impairment charges due to regulatory settlements, increased depreciation and amortization, higher interest expense and higher property and other taxes. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$292 million decrease in retail sales, net of fuel revenue, due to less favorable weather in the current year; and
- a \$235 million decrease in fuel revenues driven by lower retail sales volumes, lower fuel prices included in rates and changes in the generation mix.

Partially offset by:

- a \$364 million increase in rider revenues including increased revenues related to energy efficiency programs, Duke Energy Florida's nuclear asset securitization, Midwest transmission and distribution capital investments and Duke Energy Indiana's Edwardsport Integrated Gasification Combined Cycle (IGCC) plant, as well as an increase in retail pricing due to base rate adjustments for Duke Energy Florida's Osprey acquisition and Hines Chillers and the Duke Energy Progress South Carolina rate case;
- an \$86 million increase in weather-normal sales volumes to customers; and
- a \$26 million increase in other revenues primarily due to favorable transmission revenues.

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Operating Expenses. The variance was driven primarily by:

- a \$160 million increase in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the current year at Duke Energy Florida and the disallowance from rate base of certain projects at the Mayo and Sutton plants in the current year at Duke Energy Progress related to the partial settlement in the North Carolina rate case;
- a \$113 million increase in depreciation and amortization expense primarily due to additional plant in service; and
- a \$58 million increase in property and other taxes primarily due to higher property taxes.

Partially offset by:

- a \$216 million decrease in fuel expense (including purchased power) primarily due to lower retail sales and changes in the generation mix; and
- a \$96 million decrease in operation, maintenance and other expense primarily due to lower plant outage, storm restoration and labor and benefits costs partially offset by higher operational costs that are recoverable in rates.

Interest Expense. The variance was due to higher debt outstanding in the current year and Duke Energy Florida's Crystal River 3 (CR3) regulatory asset debt return ending in June 2016 upon securitization.

Income Tax Expense. The variance was primarily due to a decrease in pretax income and the impact of the Tax Act. The effective tax rates for the years ended December 31, 2017, and 2016 were 29.7 percent and 35.5 percent, respectively. The decrease in the effective tax rate was primarily due to the impact of the Tax Act. See the Tax Cuts and Jobs Act section above for additional information on the Tax Act.

Year Ended December 31, 2016, as Compared to 2015

Electric Utilities and Infrastructure's higher earnings were primarily due to increased pricing and rider revenues, favorable weather, a prior year impairment charge associated with the 2015 Edwardsport IGCC settlement and an increase in wholesale power margins. These impacts were partially offset by increased depreciation and amortization expense, higher interest expense and higher operations and maintenance expense. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$768 million decrease in fuel revenues driven by lower fuel prices included in rates.

Partially offset by:

- a \$414 million increase in rider revenues including increased revenues related to energy efficiency programs, the additional ownership interest in generating assets acquired from NCEMPA in the third quarter of 2015 and increased revenues related to Duke Energy Indiana's clean coal equipment, and increased retail electric pricing primarily due to the expiration of the North Carolina cost of removal decrement rider;

- a \$101 million increase in retail sales, net of fuel revenue, due to favorable weather compared to the prior year; and
- a \$76 million increase in wholesale power revenues primarily due to additional volumes and capacity charges for customers served under long-term contracts, including the NCEMPA wholesale contract.

Operating Expenses. The variance was driven primarily by:

- a \$713 million decrease in fuel expense (including purchased power and natural gas purchases for resale) primarily due to lower natural gas and coal prices, and lower volumes of coal and oil, partially offset by higher volumes of natural gas; and
- an \$85 million decrease in pretax impairment charges in the prior year primarily due to the 2015 Edwardsport IGCC settlement.

Partially offset by:

- a \$162 million increase in depreciation and amortization expense primarily due to additional plant in service, including the additional ownership interest in generating assets acquired from NCEMPA, as well as the expiration of the North Carolina cost of removal decrement rider; and
- a \$154 million increase in operations and maintenance expense primarily due to higher environmental and operational costs that are recoverable in rates, increased employee benefit costs, and higher storm restoration costs, partially offset by lower costs due to effective cost control efforts.

Other Income and Expenses. The variance was primarily driven by higher AFUDC equity.

Interest Expense. The variance was due to higher debt outstanding in the current year.

Income Tax Expense. The variance was primarily due to an increase in pretax income. The effective tax rates for the years ended December 31, 2016, and 2015 were 35.5 percent and 36.2 percent, respectively.

Matters Impacting Future Electric Utilities and Infrastructure Results

An order from regulatory authorities disallowing recovery of costs related to closure of ash impoundments could have an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows. See Note 4 and Note 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively, for additional information.

On May 18, 2016, the North Carolina Department of Environmental Quality (NCDEQ) issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the North Carolina Coal Ash Management Act of 2014 (Coal Ash Act) were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, may be reassessed in the future as low risk pursuant to legislation enacted on July 14, 2016. Electric Utilities and Infrastructure's estimated asset retirement obligations (AROs) related to the closure of North Carolina ash impoundments are based upon the mandated closure method or a probability weighting of potential closure

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methods for the impoundments that may be reassessed to low risk. As the final risk ranking classifications in North Carolina are delineated, final closure plans and corrective action measures are developed and approved for each site, the closure work progresses and the closure method scope and remedial methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Electric Utilities and Infrastructure's financial position. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy is a party to multiple lawsuits and could be subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. The outcome of these lawsuits and potential fines and penalties could have an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies," for additional information.

In the fourth quarter of 2016, Hurricane Matthew caused historic flooding, extensive damage and widespread power outages within the Duke Energy Progress service territory. Duke Energy Progress filed a petition with the North Carolina Utilities Commission (NCUC) requesting an accounting order to defer incremental operation and maintenance and capital costs incurred in response to Hurricane Matthew and other significant 2016 storms. The NCUC will address this request in Duke Energy Progress' currently pending rate case. A final order from the NCUC that disallows the deferral and future recovery of all or a significant portion of the incremental storm restoration costs incurred could result in an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Duke Energy has several rate cases pending. Duke Energy Kentucky filed an electric rate case with the Kentucky Public Service Commission (KPSC)

on September 1, 2017, to recover costs of capital investments in generation, transmission and distribution systems and to recover other incremental expenses since its previous rate case. Duke Energy Carolinas and Duke Energy Progress filed general rate cases with the NCUC on August 25, 2017, and June 1, 2017, respectively, to recover costs of complying with Coal Combustion Residuals (CCR) regulations and the Coal Ash Act, as well as costs of capital investments in generation, transmission and distribution systems and any increase in expenditures subsequent to previous rate cases. In March 2017, Duke Energy Ohio filed an electric distribution base rate case application and supporting testimony with the Public Utility Commission of Ohio (PUCO). Electric Utilities and Infrastructure's earnings could be impacted adversely if these rate increases are delayed or denied by the KPSC, NCUC or PUCO. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On August 29, 2017, Duke Energy Florida filed a 2017 Second Revised and Restated Settlement Agreement (2017 Settlement) with the FPSC. On November 20, 2017, the FPSC issued an order to approve the 2017 Settlement. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information about the 2017 Settlement. In accordance with the 2017 Settlement, Duke Energy Florida will not seek recovery of any costs associated with the ongoing Westinghouse contract litigation, which is currently being appealed. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies," for additional information about the litigation. An unfavorable appeals ruling on that matter could have an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

Gas Utilities and Infrastructure

(in millions)	Years Ended December 31,				
	2017	2016	Variance 2017 vs. 2016	2015	Variance 2016 vs. 2015
Operating Revenues	\$ 1,836	\$ 901	\$ 935	\$ 541	\$ 360
Operating Expenses					
Cost of natural gas	632	265	367	141	124
Operation, maintenance and other	393	186	207	126	60
Depreciation and amortization	231	115	116	79	36
Property and other taxes	106	70	36	62	8
Total operating expenses	1,362	636	726	408	228
(Loss) Gains on Sales of Other Assets and Other, net	—	(1)	1	6	(7)
Operating Income	474	264	210	139	125
Other Income and Expenses	66	24	42	3	21
Interest Expense	105	46	59	25	21
Income Before Income Taxes	435	242	193	117	125
Income Tax Expense	116	90	26	44	46
Segment Income	\$ 319	\$ 152	\$ 167	\$ 73	\$ 79
Piedmont LDC throughput (dekatherms) ^(a)	468,259,777	120,908,508	347,351,269	—	120,908,508
Duke Energy Midwest LDC throughput (MCF)	80,934,836	81,870,489	(935,653)	84,523,814	(2,653,325)

(a) Includes throughput subsequent to Duke Energy's acquisition of Piedmont on October 3, 2016.

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Year Ended December 31, 2017, as Compared to 2016

Gas Utilities and Infrastructure's higher results were primarily due to the inclusion of Piedmont's earnings in the current year as a result of Duke Energy's acquisition of Piedmont on October 3, 2016, as well as additional equity earnings from investments in the ACP and Sabal Trail pipelines.

Operating Revenues. The variance was driven primarily by:

- a \$884 million increase in operating revenues due to the inclusion of Piedmont's operating revenues beginning in October 2016; and
- a \$47 million increase in Piedmont's fourth quarter results due to colder weather, higher natural gas prices, Integrity Management Rider (IMR) rate adjustments, customer growth and new power generation customers.

Operating Expenses. The variance was driven primarily by:

- a \$686 million increase in operating expenses due to the inclusion of Piedmont's operating expenses beginning in October 2016; and
- a \$34 million increase in Piedmont's fourth quarter results primarily due to higher natural gas costs passed through to customers due to the higher price per dekatherm of natural gas.

Other Income and Expenses. The increase was driven primarily by higher equity earnings from pipeline investments.

Interest Expense. The variance was primarily due to the inclusion of Piedmont's interest expense beginning in October 2016.

Income Tax Expense. The variance was primarily due to an increase in pretax income due to the inclusion of Piedmont's earnings beginning in October 2016, partially offset by prior period true-ups. The effective tax rates for the years ended December 31, 2017, and 2016 were 26.7 percent and 37.2 percent, respectively. The decrease in the effective tax rate was primarily due to the prior period true-ups and the impact of the Tax Act. See the Tax Cuts and Jobs Act section above for additional information on the Tax Act.

Year Ended December 31, 2016, as Compared to 2015

Gas Utilities and Infrastructure's higher results were primarily due to the inclusion of Piedmont's earnings subsequent to the merger on October 3, 2016, and higher equity earnings from pipeline investments. Piedmont's earnings included in Gas Utilities and Infrastructure's results were \$67 million for the year ended December 31, 2016.

Operating Revenues. The variance was driven primarily by:

- a \$398 million increase in operating revenues due to the inclusion of Piedmont's operating revenues beginning in October 2016,

Partially offset by:

- a \$38 million decrease in fuel revenues driven by lower natural gas prices and decreased sales volumes for Midwest operations.

Operating Expenses. The variance was driven primarily by:

- a \$276 million increase in operating expenses due to the inclusion of Piedmont's operating expenses beginning in October 2016.

Partially offset by:

- a \$38 million decrease in the cost of natural gas, primarily due to decreased volumes and lower natural gas prices for Midwest operations.

Other Income and Expenses. The increase was driven primarily by higher equity earnings from pipeline investments.

Interest Expense. The variance was primarily due to the inclusion of Piedmont's interest expenses beginning in October 2016.

Income Tax Expense. The variance was primarily due to an increase in pretax income. The effective tax rates for the years ended December 31, 2016, and 2015 were 37.2 percent and 37.6 percent, respectively.

Matters Impacting Future Gas Utilities and Infrastructure Results

Gas Utilities and Infrastructure has a 24 percent ownership interest in Constitution Pipeline Company, LLC (Constitution), a natural gas pipeline project slated to transport natural gas supplies to major northeastern markets. On April 22, 2016, the New York State Department of Environmental Conservation denied Constitution's application for a necessary water quality certification for the New York portion of the Constitution pipeline. Constitution has stopped construction and discontinued capitalization of future development costs until the project's uncertainty is resolved. As a result of the permitting delays and project uncertainty, total anticipated contributions by Duke Energy can no longer be reasonably estimated. To the extent the legal and regulatory proceedings have unfavorable outcomes, or if Constitution concludes that the project is not viable or does not go forward, an impairment charge of up to the recorded investment in the project, net of salvage value and any cash and working capital returned, may be recorded. Due to the FERC's January 2018 ruling and the resulting increase in uncertainty, Duke Energy is evaluating the potential to recognize a pretax impairment charge on its investment in Constitution during the first quarter of 2018 of up to the current carrying amount of the investment, net of salvage value and any cash and working capital returned. With the project on hold, funding of project costs has ceased until resolution of legal actions. At December 31, 2017, Duke Energy's investment in Constitution was \$81 million. See Note 4 and Note 12 to the Consolidated Financial Statements, "Regulatory Matters," and "Investments in Unconsolidated Affiliates," respectively, for additional information.

Gas Utilities and Infrastructure has a 47 percent ownership interest in ACP, which is building an approximately 600-mile interstate natural gas pipeline intended to transport diverse natural gas supplies into southeastern markets. Affected states (West Virginia, Virginia and North Carolina) have issued certain necessary permits; the project remains subject to other pending federal and state approvals, which will allow full construction activities to begin. In early 2018, the FERC issued series of Partial Notices to Proceed which authorized the project to begin limited construction-related activities along the pipeline route. The project has a targeted in-service date of late 2019. Due to delays in obtaining the required permits to commence construction and the conditions imposed upon the project by the permits, ACP's project manager estimates the project pipeline development costs have increased from a range of \$5.0 billion to \$5.5 billion to a range of \$6.0 billion to \$6.5 billion, excluding financing costs. Project construction activities, schedule and final costs are still subject to uncertainty due to potential additional permitting delays, construction productivity and other conditions and risks that could result in potential higher project costs and a potential delay in the targeted in-service date. See Note 4

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to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Rapidly rising interest rates without timely or adequate updates to the regulated allowed return on equity or failure to achieve the anticipated benefits of the Piedmont merger, including cost savings and growth targets, could significantly impact the estimated fair value of reporting units in Gas Utilities

and Infrastructure. In the event of a significant decline in the estimated fair value of the reporting units, goodwill impairment charges could be recorded. The carrying value of goodwill within Gas Utilities and Infrastructure was approximately \$1,924 million at December 31, 2017.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

Commercial Renewables

(in millions)	Years Ended December 31,				
	2017	2016	Variance 2017 vs. 2016	2015	Variance 2016 vs. 2015
Operating Revenues	\$ 460	\$ 484	\$ (24)	\$ 286	\$ 198
Operating Expenses					
Operation, maintenance and other	267	337	(70)	197	140
Depreciation and amortization	155	130	25	104	26
Property and other taxes	33	25	8	18	7
Impairment charges	99	—	99	3	(3)
Total operating expenses	554	492	62	322	170
Gains on Sales of Other Assets and Other, net	1	5	(4)	1	4
Operating Loss	(93)	(3)	(90)	(35)	32
Other Income and Expenses	(12)	(83)	71	2	(85)
Interest Expense	87	53	34	44	9
Loss Before Income Taxes	(192)	(139)	(53)	(77)	(62)
Income Tax Benefit	(628)	(160)	(468)	(128)	(32)
Less: Loss Attributable to Noncontrolling Interests	(5)	(2)	(3)	(1)	(1)
Segment Income	\$ 441	\$ 23	\$ 418	\$ 52	\$ (29)
Renewable plant production, GWh	8,260	7,446	814	5,577	1,869
Net proportional MW capacity in operation	2,907	2,892	15	1,943	949

Year Ended December 31, 2017, as Compared to 2016

Commercial Renewables' higher earnings were primarily due to the Tax Act, partially offset by pretax impairment charges. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The decrease was primarily due to lower engineering, procurement and construction revenues from REC Solar, a California-based provider of solar installations acquired by Duke Energy in 2015.

Operating Expenses. The increase was primarily due to \$99 million in pretax impairment charges in the current year related to a wholly owned non-contracted wind project and other investments and higher expenses associated with new wind and solar projects, partially offset by lower operations and maintenance expense at REC Solar due to fewer projects under construction. See Notes 10 and 11 to the Consolidated Financial Statements, "Property, Plant and Equipment" and "Goodwill and Intangible Assets," respectively, for additional information.

Other Income and Expenses. The variance was primarily due to a \$71 million pretax impairment charge in the prior year related to certain equity method investments. For additional information, see Note 12 to the Consolidated Financial Statements, "Investments in Unconsolidated Affiliates."

Interest Expense. The variance was primarily due to new project financings and less capitalized interest due to fewer projects under construction.

Income Tax Benefit. The variance was primarily due to the impact of the Tax Act and higher production tax credits (PTCs), partially offset by lower investment tax credits (ITCs). See the Tax Cuts and Jobs Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Year Ended December 31, 2016, as Compared to 2015

Commercial Renewables' lower earnings were primarily due to an impairment charge related to certain equity method investments in wind projects, partially offset by new wind and solar generation placed in service and improved wind production. The following is a detailed discussion of variance drivers by line item.

Operating Revenues. The variance was primarily due to a \$135 million increase due to growth of REC Solar and a \$66 million increase from new wind and solar generation placed in service and improved wind production.

Operating Expenses. The variance was primarily due to a \$130 million increase in operating expenses due to growth of REC Solar and a \$36 million increase in operating expenses due to new wind and solar generation placed in service.

Other Income and Expenses. The variance was due to a \$71 million pretax impairment charge related to certain equity method investments in wind projects. See Note 12 to the Consolidated Financial Statements, "Investments in Unconsolidated Affiliates," for additional information.

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Income Tax Benefit. The variance was primarily due to a decrease in pretax income and the impact of PTCs for the renewables portfolio.

Matters Impacting Future Commercial Renewables Results

Changes or variability in assumptions used in calculating the fair value of the Commercial Renewables reporting units for goodwill testing purposes, including but not limited to legislative actions related to tax credit extensions, long-term growth rates and discount rates could significantly impact the estimated fair value of the Commercial Renewables reporting units. In the

event of a significant decline in the estimated fair value of the Commercial Renewables reporting units, goodwill or other asset impairment charges could be recorded. The carrying value of goodwill within Commercial Renewables was approximately \$93 million at December 31, 2017.

Persistently low market pricing for wind resources, primarily in the Electric Reliability Council of Texas West market and the future expiration of tax incentives including ITCs and PTCs could result in adverse impacts to the future results of Commercial Renewables.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

Other

(in millions)	Years Ended December 31,				
	2017	2016	Variance 2017 vs. 2016	2015	Variance 2016 vs. 2015
Operating Revenues	\$ 138	\$ 117	\$ 21	\$ 135	\$ (18)
Operating Expenses					
Fuel used in electric generation and purchased power	58	51	7	48	3
Operation, maintenance and other	44	371	(327)	188	183
Depreciation and amortization	131	152	(21)	135	17
Property and other taxes	14	28	(14)	35	(7)
Impairment charges	7	2	5	3	(1)
Total operating expenses	254	604	(350)	409	195
Gains on Sales of Other Assets and Other, net	21	23	(2)	18	5
Operating Loss	(95)	(464)	369	(256)	(208)
Other Income and Expenses	127	75	52	98	(23)
Interest Expense	574	693	(119)	393	300
Loss Before Income Taxes	(542)	(1,082)	540	(551)	(531)
Income Tax Expense (Benefit)	353	(446)	799	(262)	(184)
Less: Income attributable to Noncontrolling Interests	10	9	1	10	(1)
Net Expense	\$ (905)	\$ (645)	\$ (260)	\$ (299)	\$ (346)

Year Ended December 31, 2017, as Compared to 2016

Other's higher net expense was driven by the Tax Act, partially offset by prior year losses on forward-starting interest rate swaps and other costs related to the Piedmont acquisition, decreased severance expenses, prior year donations to the Duke Energy Foundation and insurance proceeds resulting from settlement of the shareholder litigation related to the Progress Energy merger. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The increase was primarily due to higher OVEC (Ohio Valley Electric Corporation) revenues and prior year customer credits related to Piedmont merger commitments. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Operating Expenses. The decrease was primarily due to lower transaction and integration costs associated with the Piedmont acquisition, prior year severance expenses related to cost savings initiatives, donations to the Duke Energy Foundation in 2016 as well as prior year depreciation expense and other integration costs related to the Progress Energy merger. The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Other Income and Expenses. The increase was primarily driven by insurance proceeds resulting from settlement of the shareholder litigation related to the Progress Energy merger, higher earnings from the equity method investment in NMC and increased returns on investments that fund certain employee benefit obligations.

Interest Expense. The decrease was primarily due to prior year losses on forward-starting interest rate swaps related to Piedmont pre-acquisition financing, partially offset by higher interest costs on \$3.75 billion of debt issued in August 2016 to fund the acquisition. For additional information see Notes 2, 6 and 14 to the Consolidated Financial Statements, "Acquisitions and Dispositions," "Debt and Credit Facilities" and "Derivatives and Hedging," respectively.

Income Tax Benefit. The variance was primarily due to the impact of the Tax Act and a decrease in pretax loss. See the Tax Cuts and Jobs Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Year Ended December 31, 2016, as Compared to 2015

Other's higher net expense was driven by costs related to the Piedmont acquisition, higher charitable donations and higher interest expense related to the Piedmont acquisition financing. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The decrease was primarily due to customer credits recorded related to Piedmont merger commitments. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

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Operating Expenses. The increase was primarily due to transaction and integration costs associated with the Piedmont acquisition and increased donations to the Duke Energy Foundation, partially offset by a decrease in severance accruals.

Other Income and Expenses. The variance was primarily due to lower earnings from NMC, partially offset by higher returns on investments that support employee benefit obligations.

Interest Expense. The increase was primarily due to Piedmont acquisition financing, including bridge facility costs and losses on forward-starting interest rate swaps. For additional information see Notes 2 and 14 to the Consolidated Financial Statements, "Acquisitions and Dispositions" and "Derivatives and Hedging," respectively.

Income Tax Benefit. The variance was primarily due to an increase in pretax losses, partially offset by a decrease in the effective tax rate. The effective tax rates for the years ended December 31, 2016, and 2015 were 41.2 percent and 47.5 percent, respectively. The decrease in the effective tax rate was primarily due to the benefit from legal entity restructuring recorded in 2015.

Matters Impacting Future Other Results

Included in Other is Duke Energy Ohio's 9 percent ownership interest in the Ohio Valley Electric Corporation (OVEC), which owns 2,256 MW of coal-fired generation capacity. As a counterparty to an inter-company power agreement (ICPA), Duke Energy Ohio has a contractual arrangement to receive entitlements to capacity and energy from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization and interest expense, are allocated to counterparties to the ICPA, including Duke Energy Ohio, based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuations in power prices and changes in OVEC's costs of business. Deterioration in the credit quality or bankruptcy of one or more parties to the ICPA could increase the costs of OVEC. In addition, certain proposed environmental rulemaking costs could result in future increased cost allocations. For information on Duke Energy's regulatory filings related to OVEC, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

The retired Beckjord generating station (Beckjord), a nonregulated facility retired during 2014, is not subject to the U.S. Environmental Protection Agency (EPA) rule related to the disposal of CCR from electric utilities. However, if costs are incurred as a result of environmental regulations or to mitigate risk associated with on-site storage of coal ash, the costs could have an adverse impact on Other's financial position, results of operations and cash flows.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

(LOSS) INCOME FROM DISCONTINUED OPERATIONS, NET OF TAX

(in millions)	Years Ended December 31,				
	2017	2016	Variance 2017 vs. 2016	2015	Variance 2016 vs. 2015
(Loss) Income From Discontinued Operations, net of tax	\$ (6)	\$ (408)	\$ 402	\$ 177	\$ (585)

Year Ended December 31, 2017, as Compared to 2016

The variance was primarily driven by the prior year loss on the disposal of Duke Energy's Latin American generation business and an impairment charge related to certain assets in Central America, partially offset by a tax benefit related to historic unremitted foreign earnings and immaterial out of period tax adjustments unrelated to the Disposal Groups. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Year Ended December 31, 2016, as Compared to 2015

The variance was primarily driven by the 2016 loss on the disposal of Duke Energy's Latin American generation business and an impairment charge related to certain assets in Central America, partially offset by a tax benefit related to historic unremitted foreign earnings and immaterial out of period tax adjustments unrelated to the Disposal Groups. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

SUBSIDIARY REGISTRANTS

As a result of the Tax Act, the Subsidiary Registrants revalued their deferred tax assets and deferred tax liabilities, as of December 31, 2017, to account for the future impact of lower corporate tax rates on these deferred tax amounts. For the Subsidiary Registrants regulated operations, where the reduction is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information on the Tax Act's impact to the regulatory asset and liability

accounts. The FERC and state utility commissions will determine the regulatory treatment of the impacts of the Tax Act for the Subsidiary Registrants. The Subsidiary Registrants' future results of operations, financial condition and cash flows could be adversely impacted by the Tax Act, subsequent amendments or corrections, or the actions of the FERC, state utility commissions or credit rating agencies related to the Tax Act. The change in each Subsidiary Registrant's effective tax rate for the year ended December 31, 2017, was primarily due to the impact of the Tax Act, unless noted below.

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The following table shows the expense (benefit) recorded on the Subsidiary Registrant's Consolidated Statement of Operations and Comprehensive Income for the year ended December 31, 2017, and the effective tax rate for each Subsidiary Registrant.

(in millions)	Impacts of the Tax Act ^{(a)(b)}	Effective Tax Rate Years Ended December 31,	
		2017	2016
Duke Energy Carolinas	\$ 15	34.9%	35.2%
Progress Energy	(246) ^(c)	17.2%	33.7%
Duke Energy Progress	(40) ^(d)	29.0% ^(h)	33.4%
Duke Energy Florida	(226) ^(e)	6.1%	36.9%
Duke Energy Ohio	(23) ^(e)	23.4%	28.9%
Duke Energy Indiana	55 ^(f)	46.0%	37.1%
Piedmont	(2) ^{(d)(g)}	30.8%	38.3%

- (a) Except where noted below, amounts are included within Income Tax Expense From Continuing Operations or Income Tax Expense on the Consolidated Statement of Operations and Comprehensive Income.
(b) See Notes 4 and 22 to the Consolidated Financial Statements, "Regulatory Matters" and "Income Taxes," for information about the Tax Act's impact on Duke Energy's Consolidated Balance Sheets.
(c) Amount primarily relates to the remeasurement of deferred tax liabilities that are excluded for ratemaking purposes related to abandoned assets and certain wholesale fixed rate contracts.
(d) Amount primarily relates to the remeasurement of deferred tax liabilities of certain wholesale fixed rate contracts.
(e) Amount primarily relates to the remeasurement of deferred tax assets that are excluded for ratemaking purposes related to a prior transfer of certain electric generating assets.
(f) Amount primarily relates to the remeasurement of deferred tax liabilities that are excluded for ratemaking purposes related to impaired assets.
(g) Includes a \$16 million expense recorded within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations and Comprehensive Income.
(h) The decrease in the effective tax rate was primarily due to the impact of the Tax Act and lower North Carolina corporate tax rates.

DUKE ENERGY CAROLINAS

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Carolinas is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues	\$ 7,302	\$ 7,322	\$ (20)
Operating Expenses			
Fuel used in electric generation and purchased power	1,822	1,797	25
Operation, maintenance and other	1,961	2,106	(145)
Depreciation and amortization	1,090	1,075	15
Property and other taxes	281	276	5
Impairment charges	—	1	(1)
Total operating expenses	5,154	5,255	(101)
Gain (Loss) on Sales of Other Assets and Other, net	1	(5)	6
Operating Income	2,149	2,062	87
Other Income and Expenses, net	139	162	(23)
Interest Expense	422	424	(2)
Income Before Income Taxes	1,866	1,800	66
Income Tax Expense	652	634	18
Net Income	\$ 1,214	\$ 1,166	\$ 48

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The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Carolinas. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2017	2016
Residential sales	(4.8)%	0.1%
General service sales	(1.8)%	0.7%
Industrial sales	(0.8)%	(0.9)%
Wholesale power sales	6.3%	9.8%
Joint dispatch sales	18.2%	(2.3)%
Total sales	(1.4)%	1.8%
Average number of customers	1.5%	1.4%

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$179 million decrease in retail sales, net of fuel revenues, due to less favorable weather in the current year.

Partially offset by:

- a \$74 million increase in rider revenues and retail pricing primarily related to energy efficiency programs;
- a \$41 million increase in weather-normal sales volumes to retail customers, net of fuel revenues;
- a \$30 million increase in fuel revenues primarily due to changes in generation mix partially offset by lower retail sales; and
- a \$7 million increase in wholesale power revenues, net of sharing and fuel, primarily due to additional volumes for customers served under long-term contracts.

Operating Expenses. The variance was driven primarily by:

- a \$145 million decrease in operations, maintenance and other expense primarily due to lower expenses at generating plants, lower costs associated with merger commitments related to the Piedmont acquisition in 2016, lower severance expenses, and lower employee benefit costs, partially offset by higher energy efficiency program costs.

Partially offset by:

- a \$25 million increase in fuel expense (including purchased power) primarily due to changes in generation mix, partially offset by lower retail sales; and
- a \$15 million increase in depreciation and amortization expense primarily due to additional plant in service, partially offset by lower amortization of certain regulatory assets.

Other Income and Expenses. The variance was primarily due to a decrease in recognition of post in-service equity returns for projects that had been completed prior to being reflected in customer rates.

Income Tax Expense. The variance was primarily due to an increase in pretax income and the impact of the Tax Act, offset by the impact of research credits and the manufacturing deduction. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Results

An order from regulatory authorities disallowing recovery of costs related to closure of ash impoundments could have an adverse impact on Duke Energy Carolinas' financial position, results of operations and cash flows. See Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively, for additional information.

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, may be reassessed in the future as low risk pursuant to legislation enacted on July 14, 2016. Duke Energy Carolinas' estimated AROs related to the closure of North Carolina ash impoundments are based upon the mandated closure method or a probability weighting of potential closure methods for the impoundments that may be reassessed to low risk. As the final risk ranking classifications in North Carolina are delineated, final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Duke Energy Carolinas' financial position. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Carolinas is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. The outcome of these lawsuits, fines and penalties could have an adverse impact on Duke Energy Carolinas' financial position, results of operations and cash flows. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies," for additional information.

Duke Energy Carolinas filed a general rate case on August 25, 2017, to recover costs of complying with CCR regulations and the Coal Ash Act, as well as costs of capital investments in generation, transmission and distribution systems and any increase in expenditures subsequent to previous rate cases. Duke Energy Carolinas' earnings could be adversely impacted if the rate increase is delayed or denied by the NCUC.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

PART II

PROGRESS ENERGY

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Progress Energy is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues	\$ 9,783	\$ 9,853	\$ (70)
Operating Expenses			
Fuel used in electric generation and purchased power	3,417	3,644	(227)
Operation, maintenance and other	2,220	2,386	(166)
Depreciation and amortization	1,285	1,213	72
Property and other taxes	503	487	16
Impairment charges	156	7	149
Total operating expenses	7,581	7,737	(156)
Gains on Sales of Other Assets and Other, net	26	25	1
Operating Income	2,228	2,141	87
Other Income and Expenses, net	128	114	14
Interest Expense	824	689	135
Income From Continuing Operations Before Income Taxes	1,532	1,566	(34)
Income Tax Expense From Continuing Operations	264	527	(263)
Income from Continuing Operations	1,268	1,039	229
Income from Discontinued Operations, net of tax	—	2	(2)
Net Income	1,268	1,041	227
Less: Net Income Attributable to Noncontrolling Interests	10	10	—
Net Income Attributable to Parent	\$ 1,258	\$ 1,031	\$ 227

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$231 million decrease in fuel revenues primarily due to lower retail sales and changes in generation mix at Duke Energy Progress; and
- an \$87 million decrease in retail sales, net of fuel revenues, due to less favorable weather in the current year.

Partially offset by:

- a \$108 million increase in retail pricing primarily due to Duke Energy Florida's base rate adjustment for the Osprey Acquisition and the completion of the Hines Energy Complex Chiller Uprate Project, as well as the Duke Energy Progress South Carolina rate case;
- a \$76 million increase in rider revenues related to energy efficiency programs at Duke Energy Progress, as well as nuclear asset securitization beginning in July 2016 and extended uprate project revenues beginning in 2017 at Duke Energy Florida; and
- a \$51 million increase in weather-normal sales volumes to retail customers.

Operating Expenses. The variance was driven primarily by:

- a \$227 million decrease in fuel expense and purchased power primarily due to lower retail sales and changes in generation mix at Duke Energy Progress; and

- a \$166 million decrease in operations, maintenance and other expense primarily due to lower plant outage, storm restoration and labor costs.

Partially offset by:

- a \$149 million increase in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the current year at Duke Energy Florida and the disallowance from rate base of certain projects at the Mayo and Sutton plants in the current year at Duke Energy Progress related to the partial settlement in the North Carolina rate case; and
- a \$72 million increase in depreciation and amortization expense primarily due to additional plant in service, as well as nuclear regulatory asset amortization at Duke Energy Florida.

Interest Expense. The variance was due to higher debt outstanding, as well as interest charges on North Carolina fuel over collections at Duke Energy Progress and lower debt returns driven by the CR3 regulatory asset debt return ending in June 2016 upon securitization at Duke Energy Florida.

Income Tax Expense. The variance was primarily due to the impact of the Tax Act. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Results

An order from regulatory authorities disallowing recovery of costs related to closure of ash impoundments could have an adverse impact on Progress

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Energy's financial position, results of operations and cash flows. See Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively, for additional information.

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, may be reassessed in the future as low risk pursuant to legislation enacted on July 14, 2016. Progress Energy's estimated AROs related to the closure of North Carolina ash impoundments are based upon the mandated closure method or a probability weighting of potential closure methods for the impoundments that may be reassessed to low risk. As the final risk ranking classifications in North Carolina are delineated, final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Progress Energy's financial position. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Progress is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. The outcome of these lawsuits, fines and penalties could have an adverse impact on Progress Energy's financial position, results of operations and cash flows. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies," for additional information.

In the fourth quarter of 2016, Hurricane Matthew caused historic flooding, extensive damage and widespread power outages within the Duke Energy Progress service territory. Duke Energy Progress filed a petition with the North

Carolina Utilities Commission (NCUC) requesting an accounting order to defer incremental operation and maintenance and capital costs incurred in response to Hurricane Matthew and other significant 2016 storms. The NCUC will address this request in Duke Energy Progress' currently pending rate case. A final order from the NCUC that disallows the deferral and future recovery of all or a significant portion of the incremental storm restoration costs incurred could result in an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Duke Energy Progress filed a general rate case with the NCUC on June 1, 2017. Duke Energy Progress will seek to recover costs of complying with CCR regulations and the Coal Ash Act, as well as costs of capital investments in generation, transmission and distribution systems and any increase in expenditures subsequent to previous rate cases. Progress Energy's earnings could be adversely impacted if the rate increase is delayed or denied by the NCUC.

On August 29, 2017, Duke Energy Florida filed the 2017 Settlement with the FPSC. On November 20, 2017, the FPSC issued an order to approve the 2017 Settlement. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information about the 2017 Settlement. In accordance with the 2017 Settlement, Duke Energy Florida will not seek recovery of any costs associated with the ongoing Westinghouse contract litigation, which is currently being appealed. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies" for additional information about the litigation. An unfavorable appeals ruling on that matter could have an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

DUKE ENERGY PROGRESS

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Progress is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues	\$ 5,129	\$ 5,277	\$ (148)
Operating Expenses			
Fuel used in electric generation and purchased power	1,609	1,830	(221)
Operation, maintenance and other	1,389	1,504	(115)
Depreciation and amortization	725	703	22
Property and other taxes	156	156	—
Impairment charges	19	1	18
Total operating expenses	3,898	4,194	(296)
Gains on Sales of Other Asset and Other, net	4	3	1
Operating Income	1,235	1,086	149
Other Income and Expenses, net	65	71	(6)
Interest Expense	293	257	36
Income Before Income Taxes	1,007	900	107
Income Tax Expense	292	301	(9)
Net Income	\$ 715	\$ 599	\$ 116

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The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Progress. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2017	2016
Residential sales	(2.6)%	(1.5)%
General service sales	(1.3)%	0.2%
Industrial sales	1.1%	(0.1)%
Wholesale power sales	(2.9)%	18.4%
Joint dispatch sales	(17.1)%	17.7%
Total sales	(3.2)%	6.4%
Average number of customers	1.4%	1.3%

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$238 million decrease in fuel revenues due to lower retail sales and changes in generation mix; and
- a \$37 million decrease in retail sales, net of fuel revenues, due to less favorable weather in the current year, partially offset by lower lost revenues related to hurricanes in the current year.

Partially offset by:

- a \$40 million increase in rider revenues primarily due to energy efficiency programs;
- a \$38 million increase in retail sales due to the South Carolina rate case; and
- a \$31 million increase in wholesale power revenues, net of fuel, primarily due to higher peak demand.

Operating Expenses. The variance was driven primarily by:

- a \$221 million decrease in fuel used in electric generation and purchased power primarily due to lower retail sales and changes in generation mix; and
- a \$115 million decrease in operation, maintenance and other expense primarily due to lower nuclear outage costs and lower storm restoration costs.

Partially offset by:

- a \$22 million increase in depreciation and amortization expense primarily due to additional plant in service; and
- an \$18 million increase in impairment charges primarily due to the disallowance from rate base of certain projects at the Mayo and Sutton plants in the current year related to the partial settlement in the North Carolina rate case.

Interest Expense. The variance was due to higher debt outstanding, as well as interest charges on North Carolina fuel overcollections.

Income Tax Expense. The variance was primarily due to the impact of the Tax Act and lower North Carolina corporate tax rates, partially offset by an increase in pretax net income. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Results

An order from regulatory authorities disallowing recovery of costs related to closure of ash impoundments could have an adverse impact on Duke Energy

Progress' financial position, results of operations and cash flows. See Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively, for additional information.

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, may be reassessed in the future as low risk pursuant to legislation enacted on July 14, 2016. Duke Energy Progress' estimated AROs related to the closure of North Carolina ash impoundments are based upon the mandated closure method or a probability weighting of potential closure methods for the impoundments that may be reassessed to low risk. As the final risk ranking classifications in North Carolina are delineated, final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Duke Energy Progress' financial position. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Progress is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. The outcome of these lawsuits, fines and penalties could have an adverse impact on Duke Energy Progress' financial position, results of operations and cash flows. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies," for additional information.

In the fourth quarter of 2016, Hurricane Matthew caused historic flooding, extensive damage and widespread power outages within the Duke Energy Progress service territory. Duke Energy Progress filed a petition with the North Carolina Utilities Commission (NCUC) requesting an accounting order to defer incremental operation and maintenance and capital costs incurred in response to Hurricane Matthew and other significant 2016 storms. The NCUC will address this request in Duke Energy Progress' currently pending rate case. A final order from the NCUC that disallows the deferral and future recovery of all or a significant portion of the incremental storm restoration costs incurred could result in an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Duke Energy Progress filed a general rate case with the NCUC on June 1, 2017. Duke Energy Progress will seek to recover costs of complying with CCR regulations and the Coal Ash Act, as well as costs of capital investments in generation, transmission and distribution systems and any increase in expenditures subsequent to previous rate cases. Duke Energy Progress' earnings could be adversely impacted if the rate increase is delayed or denied by the NCUC. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

PART II

DUKE ENERGY FLORIDA

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Florida is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues	\$ 4,646	\$ 4,568	\$ 78
Operating Expenses			
Fuel used in electric generation and purchased power	1,808	1,814	(6)
Operation, maintenance and other	818	865	(47)
Depreciation and amortization	560	509	51
Property and other taxes	347	333	14
Impairment charges	138	6	132
Total operating expenses	3,671	3,527	144
Gains on Sales of Other Asset and Other, net	1	—	1
Operating Income	976	1,041	(65)
Other Income and Expenses, net	61	44	17
Interest Expense	279	212	67
Income Before Income Taxes	758	873	(115)
Income Tax Expense	46	322	(276)
Net Income	\$ 712	\$ 551	\$ 161

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Florida. The below percentages for retail customer classes represent billed sales only. Wholesale power sales include both billed and unbilled sales. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2017	2016
Residential sales	(2.3)%	1.7%
General service sales	(1.3)%	(0.1)%
Industrial sales	(2.4)%	(2.9)%
Wholesale power sales	20.1%	35.2%
Total sales	0.5%	0.9%
Average number of customers	1.6%	1.5%

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$70 million increase in retail pricing primarily due to the base rate adjustment for the Osprey acquisition and the completion of the Hines Energy Complex Chiller Uprate Project;
- a \$45 million increase in weather-normal sales volumes to retail customers in the current year; and
- a \$36 million increase in rider revenues primarily due to nuclear asset securitization beginning in July 2016 and extended power uprate project revenues beginning in 2017.

Partially offset by:

- a \$50 million decrease in retail sales, net of fuel revenues, due to less favorable weather in the current year, including lost revenues related to Hurricane Irma; and
- a \$34 million decrease in wholesale power revenues primarily due to contracts that expired in the prior year.

Operating Expenses. The variance was driven primarily by:

- a \$132 million increase in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the current year; and
- a \$51 million increase in depreciation and amortization expense primarily due to nuclear regulatory asset amortization, as well as additional plant in service.

Partially offset by:

- a \$47 million decrease in operations and maintenance expense primarily due to lower planned outage costs, lower severance expenses and lower employee benefit costs, partially offset by higher storm restoration costs in the current year.

Other Income and Expenses. The variance was primarily driven by higher AFUDC equity.

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Interest Expense. The variance was primarily due to higher debt outstanding and lower debt returns driven by the Crystal River Unit 3 regulatory asset debt return ending in June 2016 upon securitization.

Income Tax Expense. The variance was primarily due to the impact of the Tax Act and lower pretax earnings. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Results

On August 29, 2017, Duke Energy Florida filed the 2017 Settlement with the FPSC. On November 20, 2017, the FPSC issued an order to approve

the 2017 Settlement. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information about the 2017 Settlement. In accordance with the 2017 Settlement, Duke Energy Florida will not seek recovery of any costs associated with the ongoing Westinghouse contract litigation, which is currently being appealed. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies" for additional information about the litigation. An unfavorable appeals ruling on that matter could have an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

DUKE ENERGY OHIO

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Ohio is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues			
Regulated electric	\$ 1,373	\$ 1,410	\$ (37)
Nonregulated electric and other	42	31	11
Regulated natural gas	508	503	5
Total operating revenues	1,923	1,944	(21)
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	369	442	(73)
Fuel used in electric generation and purchased power – nonregulated	58	51	7
Cost of natural gas	107	103	4
Operation, maintenance and other	524	512	12
Depreciation and amortization	261	233	28
Property and other taxes	278	258	20
Impairment charges	1	—	1
Total operating expenses	1,598	1,599	(1)
Gains on Sales of Other Assets and Other, net	1	2	(1)
Operating Income	326	347	(21)
Other Income and Expenses, net	17	9	8
Interest Expense	91	86	5
Income from Continuing Operations Before Income Taxes	252	270	(18)
Income Tax Expense from Continuing Operations	59	78	(19)
Income from Continuing Operations	193	192	1
(Loss) Income from Discontinued Operations, net of tax	(1)	36	(37)
Net Income	\$ 192	\$ 228	\$ (36)

The following table shows the percent changes in GWh sales of electricity, dekatherms of natural gas delivered and average number of electric and natural gas customers for Duke Energy Ohio. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	Electric		Natural Gas	
	2017	2016	2017	2016
Residential sales	(4.0)%	0.7%	(2.6)%	(7.8)%
General service sales	(3.1)%	1.3%	0.7%	(3.6)%
Industrial sales	(2.7)%	(0.7)%	(2.8)%	(5.1)%
Wholesale electric power sales	65.7%	(53.9)%	n/a	n/a
Other natural gas sales	n/a	n/a	(0.3)%	6.2%
Total sales	(2.1)%	(1.1)%	(1.1)%	(3.1)%
Average number of customers	0.8%	0.8%	0.7%	0.5%

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Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$69 million decrease in fuel revenues primarily due to lower electric fuel costs and a decrease in electric and natural gas sales volumes; and
- a \$16 million decrease in electric retail sales, net of fuel revenues, due to less favorable weather in the current year.

Partially offset by:

- a \$38 million increase in rider revenues primarily due to growth in energy efficiency programs and a rate increase for the distribution capital investment rider, partially offset by a decrease in the percentage of income payment plan rider due to a rate decrease;
- a \$10 million increase in PJM Interconnection, LLC (PJM) transmission revenues;
- a \$9 million increase in other revenues related to OVEC; and
- a \$6 million increase in non-native sales for resale.

Operating Expenses. The variance was driven by:

- a \$66 million decrease in fuel expense, primarily due to lower sales volumes and lower electric fuel costs.

Partially offset by:

- a \$28 million increase in depreciation and amortization expense due to additional plant in service and a true-up related to SmartGrid assets in the prior year;
- a \$20 million increase in property and other taxes due to higher property taxes; and
- a \$12 million increase in operations, maintenance and other expense primarily due to higher energy efficiency program costs and higher transmission and distribution operations costs; partially offset by lower fossil/hydro operations costs due to timing of outage schedules.

Income Tax Expense. The variance was primarily due to the impact of the Tax Act. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Income from Discontinued Operations, Net of Tax. The variance was primarily driven by a prior year income tax benefit resulting from immaterial out of period deferred tax liability adjustments related to the Midwest Generation Disposal Group. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Matters Impacting Future Results

An order from regulatory authorities disallowing recovery of costs related to closure of ash basins could have an adverse impact on Duke Energy Ohio's

financial position, results of operations and cash flows. See Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively, for additional information.

Duke Energy Ohio's nonregulated Beckjord station, a facility retired during 2014, is not subject to the EPA rule related to the disposal of CCR from electric utilities. However, if costs are incurred as a result of environmental regulations or to mitigate risk associated with on-site storage of coal ash at the facility, the costs could have an adverse impact on Duke Energy Ohio's financial position, results of operations and cash flows.

Duke Energy Ohio has a 9 percent ownership interest in OVEC, which owns 2,256 MW of coal-fired generation capacity. As a counterparty to an ICPA, Duke Energy Ohio has a contractual arrangement to receive entitlements to capacity and energy from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization and interest expense, are allocated to counterparties to the ICPA, including Duke Energy Ohio, based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuations in power prices and changes in OVEC's costs of business. Deterioration in the credit quality or bankruptcy of one or more parties to the ICPA could increase the costs of OVEC. In addition, certain proposed environmental rulemaking costs could result in future increased cost allocations.

On March 2, 2017, Duke Energy Ohio filed an electric distribution base rate application with the PUCO to address recovery of electric distribution system capital investments and any increase in expenditures subsequent to previous rate cases. The application also includes requests to continue certain current riders and establish new riders related to LED Outdoor Lighting Service and regulatory mandates. Duke Energy Ohio's earnings could be adversely impacted if the rate case and requested riders are delayed or denied by the PUCO. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On September 1, 2017, Duke Energy Kentucky filed a base rate case with the KPSC to recover costs of capital investments in generation, transmission and distribution systems and to recover other incremental expenses since its last rate case filed in 2006. The application also includes request to establish new riders. Duke Energy Kentucky's earnings could be adversely impacted if the rate increase is delayed or denied by the KPSC.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

DUKE ENERGY INDIANA

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Indiana is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

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Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues	\$ 3,047	\$ 2,958	\$ 89
Operating Expenses			
Fuel used in electric generation and purchased power	966	909	57
Operation, maintenance and other	733	723	10
Depreciation and amortization	458	496	(38)
Property and other taxes	76	58	18
Impairment charges	18	8	10
Total operating expenses	2,251	2,194	57
Gains on Sales of Other Assets and Other, net	—	1	(1)
Operating Income	796	765	31
Other Income and Expenses, net	37	22	15
Interest Expense	178	181	(3)
Income Before Income Taxes	655	606	49
Income Tax Expense	301	225	76
Net Income	\$ 354	\$ 381	\$ (27)

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Indiana. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2017	2016
Residential sales	(3.8)%	(0.4)%
General service sales	(2.4)%	0.7%
Industrial sales	0.3%	0.4%
Wholesale power sales	(10.5)%	10.8%
Total sales	(3.6)%	2.5%
Average number of customers	0.8%	1.1%

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$67 million increase in rate rider revenues primarily related to the Edwardsport IGCC plant, the Transmission, Distribution and Storage System Improvement Charge (TDSIC) and energy efficiency programs; and
- a \$48 million increase in fuel revenues primarily due to higher purchased power costs passed through to customers and higher financial transmission rights (FTR) revenues.

Partially offset by:

- a \$13 million decrease in retail sales due to less favorable weather in the current year; and
- a \$13 million decrease in wholesale power revenues, net of fuel, primarily due to a decrease in demand rates and contracts that expired in the current year.

Operating Expenses. The variance was driven primarily by:

- a \$57 million increase in fuel used in electric generation and purchased power expenses, primarily due to higher purchased power volumes, partially offset by favorable fuel prices;
- an \$18 million increase in property and other taxes primarily due to higher franchise taxes;

- a \$10 million increase in operations, maintenance and other expense primarily due to growth in energy efficiency programs and higher transmission costs; and
- a \$10 million increase in impairments and other charges primarily due to the impairment of certain metering equipment not recoverable in customer rates.

Partially offset by:

- a \$38 million decrease in depreciation and amortization primarily due to the recognition of certain asset retirement obligations in 2016 that were subsequently deferred in 2017, partially offset by new IGCC rates that result in a lower deferral amount and higher depreciation due to additional plant in service.

Other Income and Expense. The variance was driven primarily by higher AFUDC equity.

Income Tax Expense. The variance was primarily due to the impact of the Tax Act and an increase in pretax income. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

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Matters Impacting Future Results

On April 17, 2015, the EPA published in the Federal Register a rule to regulate the disposal of CCR from electric utilities as solid waste. Duke Energy Indiana has interpreted the rule to identify the coal ash basin sites impacted and has assessed the amounts of coal ash subject to the rule and a method of compliance. Duke Energy Indiana's interpretation of the requirements of the CCR rule is subject to potential legal challenges and further regulatory approvals, which could result in additional ash basin closure requirements, higher costs of compliance and greater AROs. Additionally, Duke Energy Indiana has retired facilities that are not subject to the CCR rule. Duke Energy Indiana may incur costs at these facilities to comply with environmental regulations or to mitigate risks associated with on-site storage of coal ash. An order from regulatory authorities disallowing recovery of costs related to closure of ash basins

could have an adverse impact on Duke Energy Indiana's financial position, results of operations and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

In August 2016, the Indiana Utility Regulatory Commission (IURC) approved a settlement agreement between Duke Energy Indiana and multiple parties that resolves all disputes, claims and issues from the IURC proceedings related to post-commercial operating performance and recovery of ongoing operating and capital costs at the Edwardsport IGCC generating facility. The settlement agreement imposed a cost cap for retail recoverable operations and maintenance costs through 2017. An inability to manage future operating costs may result in unfavorable orders that could have an adverse impact on Duke Energy Indiana's financial position, results of operations and cash flows.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

PIEDMONT

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the year ended December 31, 2017, Piedmont's Annual Report on Form 10-K for the year ended October 31, 2016, and the Form 10-QT as of December 31, 2016, for the transition period from November 1, 2016 to December 31, 2016. The unaudited results of operations for the year ended December 31, 2016, was derived from data previously reported in the reports noted above.

Basis of Presentation

The results of operations and variance discussion for Piedmont is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues			
Regulated natural gas	\$ 1,319	\$ 1,201	\$ 118
Nonregulated natural gas and other	9	10	(1)
Total operating revenues	1,328	1,211	117
Operating Expenses			
Cost of natural gas	524	451	73
Operation, maintenance and other	315	353	(38)
Depreciation and amortization	148	138	10
Property and other taxes	48	43	5
Impairment charges	7	—	7
Total operating expenses	1,042	985	57
Operating Income	286	226	60
Equity in (losses) earnings of unconsolidated affiliates	(6)	26	(32)
Gain on sale of unconsolidated affiliates	—	132	(132)
Other income and expenses, net	—	1	(1)
Total other income and expenses	(6)	159	(165)
Interest Expense	79	69	10
Income Before Income Taxes	201	316	(115)
Income Tax Expense	62	121	(59)
Net Income	\$ 139	\$ 195	\$ (56)

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The following table shows the percent changes in dekatherms delivered and average number of customers. The percentages for all throughput deliveries represent billed and unbilled sales. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2017	2016
Residential deliveries	(8.1)%	(0.8)%
Commercial deliveries	(4.3)%	1.6%
Industrial deliveries	(2.2)%	0.5%
Power generation deliveries	(5.8)%	10.7%
For resale	(20.9)%	1.3%
Total throughput deliveries	(5.4)%	6.3%
Secondary market volumes	(4.2)%	120.6%
Average number of customers	1.7%	1.6%

Piedmont's throughput was 468,259,777 dekatherms and 495,122,794 dekatherms for the years ended December 31, 2017, and 2016, respectively. Due to the margin decoupling mechanism in North Carolina and weather normalization adjustment (WNA) mechanisms in South Carolina and Tennessee, changes in throughput deliveries do not have a material impact on Piedmont's revenues or earnings. The margin decoupling mechanism adjusts for variations in residential and commercial use per customer, including those due to weather and conservation. The WNA mechanisms mostly offset the impact of weather on bills rendered, but do not ensure full recovery of approved margin during periods when winter weather is significantly warmer or colder than normal.

- a \$32 million decrease in equity in (losses) earnings of unconsolidated affiliates primarily due to equity earnings from the investment in SouthStar in the prior year and the impacts of the Tax Act in the current year.

Income Tax Expense. The variance was primarily due to a decrease in pretax income and the impact of the Tax Act. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$74 million increase due to higher natural gas costs passed through to customers primarily due to higher natural gas prices;
- a \$34 million increase in revenues to residential and commercial customers, net of natural gas costs passed through to customers, primarily due to Integrity Management Rider (IMR) rate adjustments and customer growth. Increase is also due to new power generation customers, and is partially offset by wholesale marketing revenue; and
- a \$10 million increase in revenues due to merger-related bill credits applied to customer bills in 2016.

Operating Expenses. The variance was driven by:

- a \$73 million increase in costs of natural gas primarily due to higher natural gas costs passed through to customers due to the higher price per dekatherm of natural gas;
- a \$15 million increase in depreciation expense and property and franchise taxes due to additional plant in service; and
- a \$7 million increase due to an impairment of software resulting from planned accounting system and process integration in 2018.

Partially offset by:

- a \$38 million decrease in operations, maintenance and other related to acquisition and integration expenses recorded in the prior year from costs paid to outside parties, primarily financial and legal advisory, severance expenses, retention costs and acceleration of incentive plans, and an accrual for our commitment of charitable contributions and community support.

Other Income and Expense. The variance was driven by:

- a \$132 million decrease in gain on sale of unconsolidated affiliates recorded in the prior year due to Piedmont's sale of its 15 percent ownership interest in SouthStar Energy Services, LLC (SouthStar) on October 3, 2016; and

Matters Impacting Future Results

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Preparation of financial statements requires the application of accounting policies, judgments, assumptions and estimates that can significantly affect the reported results of operations, cash flows or the amounts of assets and liabilities recognized in the financial statements. Judgments made include the likelihood of success of particular projects, possible legal and regulatory challenges, earnings assumptions on pension and other benefit fund investments and anticipated recovery of costs, especially through regulated operations.

Management discusses these policies, estimates and assumptions with senior members of management on a regular basis and provides periodic updates on management decisions to the Audit Committee of the Board of Directors. Management believes the areas described below require significant judgment in the application of accounting policy or in making estimates and assumptions that are inherently uncertain and that may change in subsequent periods.

For further information, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulated Operations Accounting

Substantially all of Duke Energy's regulated operations meet the criteria for application of regulated operations accounting treatment. As a result, Duke Energy is required to record assets and liabilities that would not be recorded for nonregulated entities. Regulatory assets generally represent incurred costs that have been deferred because such costs are probable of future recovery in customer rates. Regulatory liabilities are recorded when it is probable that a regulator will require Duke Energy to make refunds to customers or reduce rates to customers for previous collections or deferred revenue for costs that have yet to be incurred.

Management continually assesses whether recorded regulatory assets are probable of future recovery by considering factors such as applicable regulatory environment changes, historical regulatory treatment for similar costs in Duke Energy's jurisdictions, litigation of rate orders, recent rate orders to other regulated entities, levels of actual return on equity compared to approved

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rates of return on equity and the status of any pending or potential deregulation legislation. If future recovery of costs ceases to be probable, asset write-offs would be recognized in operating income. Additionally, regulatory agencies can provide flexibility in the manner and timing of the depreciation of property, plant and equipment, recognition of asset retirement costs and amortization of regulatory assets, or may disallow recovery of all or a portion of certain assets. For further information on regulatory assets and liabilities, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

As required by regulated operations accounting rules, significant judgment can be required to determine if an otherwise recognizable incurred cost, such as closure costs for ash impoundments, qualifies to be deferred for future recovery as a regulatory asset. Significant judgment can also be required to determine if revenues previously recognized are for entity specific costs that are no longer expected to be incurred or have not yet been incurred and are therefore a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for a more in-depth discussion of Regulatory Assets and Liabilities.

Regulated operations accounting rules also require recognition of a disallowance (also called "impairment") loss if it becomes probable that part of the cost of a plant under construction (or a recently completed or an abandoned plant) will be disallowed for ratemaking purposes and a reasonable estimate of the amount of the disallowance can be made. For example, if a cost cap is set for a plant still under construction, the amount of the disallowance is a result of a judgment as to the ultimate cost of the plant. Other disallowances can require judgments on allowed future rate recovery. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for a discussion of disallowances recorded.

When it becomes probable that regulated assets will be abandoned, the cost of the asset is removed from plant in service. The value that may be retained as a regulatory asset on the balance sheet for the abandoned property is dependent upon amounts that may be recovered through regulated rates, including any return. As such, an impairment charge, if any, could be partially or fully offset by the establishment of a regulatory asset if rate recovery is probable. The impairment for a disallowance of costs for regulated plants under construction, recently completed or abandoned is based on discounted cash flows.

For further information, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Goodwill Impairment Assessments

Duke Energy allocates goodwill to reporting units, which are either the Business Segments listed in Note 3 to the Consolidated Financial Statements or one level below based on how the Business Segment is managed. Duke Energy is required to test goodwill for impairment at least annually and more frequently if it is more likely than not that the fair value is less than the carrying value. Duke Energy performs its annual impairment test as of August 31.

Application of the goodwill impairment test requires management's judgment, including determining the fair value of the reporting unit, which management estimates using a weighted combination of the income approach, which estimates fair value based on discounted cash flows, and the market approach, which estimates fair value based on market comparables within the utility and energy industries. Significant assumptions used in these fair value analyses include discount and growth rates, future rates of return expected to result from ongoing rate regulation, utility sector market performance and transactions, forecasted earnings base, projected operating and capital cash flows for Duke Energy's business and the fair value of debt.

Estimated future cash flows under the income approach are based to a large extent on Duke Energy's internal business plan, and adjusted as appropriate for Duke Energy's views of market participant assumptions. Duke Energy's internal business plan reflects management's assumptions related to customer usage and attrition based on internal data and economic data obtained from third-party sources, projected commodity pricing data and

potential changes in environmental regulations. The business plan assumes the occurrence of certain events in the future, such as the outcome of future rate filings, future approved rates of returns on equity, anticipated earnings/returns related to significant future capital investments, continued recovery of cost of service, the renewal of certain contracts and the future of renewable tax credits. Management also makes assumptions regarding operation, maintenance and general and administrative costs based on the expected outcome of the aforementioned events. In estimating cash flows, Duke Energy incorporates expected growth rates, regulatory and economic stability, the ability to renew contracts and other factors, into its revenue and expense forecasts.

One of the most significant assumptions that Duke Energy utilizes in determining the fair value of its reporting units under the income approach is the discount rate applied to the estimated future cash flows. Management determines the appropriate discount rate for each of its reporting units based on the weighted average cost of capital (WACC) for each individual reporting unit. The WACC takes into account both the after-tax cost of debt and cost of equity. A major component of the cost of equity is the current risk-free rate on 20-year U.S. Treasury bonds. In the 2017 impairment tests, Duke Energy considered implied WACCs for certain peer companies in determining the appropriate WACC rates to use in its analysis. As each reporting unit has a different risk profile based on the nature of its operations, including factors such as regulation, the WACC for each reporting unit may differ. Accordingly, the WACCs were adjusted, as appropriate, to account for company specific risk premiums. The discount rates used for calculating the fair values as of August 31, 2017, for each of Duke Energy's reporting units ranged from 5.3 percent to 6.7 percent. The underlying assumptions and estimates are made as of a point in time. Subsequent changes, particularly changes in the discount rates, authorized regulated rates of return or growth rates inherent in management's estimates of future cash flows, could result in future impairment charges.

One of the most significant assumptions utilized in determining the fair value of reporting units under the market approach is implied market multiples for certain peer companies. Management selects comparable peers based on each peer's primary business mix, operations, and market capitalization compared to the applicable reporting unit and calculates implied market multiples based on available projected earnings guidance and peer company market values as of August 31.

In December 2016, Duke Energy disposed of its International operations and no longer has goodwill associated with the International operations. For further information, see Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions."

Duke Energy primarily operates in environments that are rate-regulated. In such environments, revenue requirements are adjusted periodically by regulators based on factors including levels of costs, sales volumes and costs of capital. Accordingly, Duke Energy's regulated utilities operate to some degree with a buffer from the direct effects, positive or negative, of significant swings in market or economic conditions. However, significant changes in discount rates over a prolonged period may have a material impact on the fair value of equity.

As of August 31, 2017, all of the reporting units' estimated fair value of equity substantially exceeded the carrying value of equity, except for the Commercial Renewables reporting units. The goodwill at the Energy Management Solutions reporting unit of Commercial Renewables was evaluated for recoverability in 2017, and Duke Energy recorded impairment charges of \$29 million.

The Commercial Renewables reporting units are impacted by a multitude of factors including, legislative actions related to tax credit extensions, long-term growth rate assumptions and discount rates. As of August 31, 2017, the Renewables reporting unit's estimated fair value of equity exceeded the carrying value of equity by less than 10 percent. Management continues to monitor these assumptions for any indicators that the fair value of the reporting unit could be below the carrying value and will assess goodwill for impairment as appropriate.

For further information, see Note 11 to the Consolidated Financial Statements, "Goodwill and Intangible Assets."

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Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment. Substantially all AROs are related to regulated operations. When recording an ARO, the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made. The liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be recoverable.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. The Duke Energy Registrants receive amounts to fund the cost of the ARO for regulated operations through a combination of regulated revenues and earnings on the nuclear decommissioning trust fund (NDTF). As a result, accretion expense and depreciation of the associated ARO asset are netted and deferred as a regulatory asset or liability.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. Duke Energy Florida assumes Crystal River Unit 3 will be placed into a safe storage configuration until eventual dismantlement is completed by 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built U.S. Department of Energy (DOE) facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis.

For further information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

Long-Lived Asset Impairment Assessments, Excluding Regulated Operations, and Equity Method Investments

Property, plant and equipment, excluding plant held for sale, is stated at the lower of carrying value (historical cost less accumulated depreciation and previously recorded impairments) or fair value, if impaired. Duke Energy evaluates property, plant and equipment for impairment when events or changes in circumstances (such as a significant change in cash flow projections or the determination that it is more likely than not that an asset or asset group will be sold) indicate the carrying value of such assets may not be recoverable. The determination of whether an impairment has occurred is based on an estimate of undiscounted future cash flows attributable to the assets, as compared with their carrying value.

Performing an impairment evaluation involves a significant degree of estimation and judgment in areas such as identifying circumstances that indicate an impairment may exist, identifying and grouping affected assets and developing the undiscounted future cash flows. If an impairment has occurred, the amount of the impairment recognized is determined by estimating the fair value and recording a loss if the carrying value is greater than the fair value. Additionally, determining fair value requires probability weighting future cash flows to reflect expectations about possible variations in their amounts or timing and the selection of an appropriate discount rate. Although cash flow estimates are based on relevant information available at the time the estimates are made, estimates of future cash flows are, by nature, highly uncertain and may vary significantly from actual results.

When determining whether an asset or asset group has been impaired, management groups assets at the lowest level that has discrete cash flows.

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method. Equity method investments are assessed for impairment when conditions exist that indicate that the fair value of the investment is less than book value. If the decline in value is considered to be other than temporary, the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

For further information, see Notes 10 and 12 to the Consolidated Financial Statements, "Property, Plant and Equipment" and "Investments in Unconsolidated Affiliates," respectively.

Revenue Recognition

Revenues on sales of electricity and natural gas are recognized when service is provided or the product is delivered. As retail meters are read, invoices are prepared and the invoice amount is generally recognized as "billed" revenue. Operating revenues also include "unbilled" electric and natural gas revenues for the amount of service provided or product delivered after the last meter reading prior to the end of the accounting period. Unbilled retail revenues are estimated by applying an average revenue per kilowatt-hour (kWh), per thousand cubic feet (Mcf) or per dekatherm (dth) for all customer classes to the number of estimated kWh, Mcf or dth delivered but not yet billed.

For wholesale customers, the invoice amount is generally recognized as "billed" revenue. Although meters are read as of the end of the month, invoices have typically not been prepared. An estimate of the wholesale invoice is included in the reported amount of "unbilled" revenue.

The amount of unbilled revenues can vary significantly from period to period as a result of numerous factors that impact the change in the unbilled revenue receivable balance, including seasonality, weather, customer usage patterns, customer mix, timing of rendering customer bills, meter readings schedules and the average price in effect for customer classes.

Pension and Other Post-Retirement Benefits

The calculation of pension expense, other post-retirement benefit expense and net pension and other post-retirement assets or liabilities require the use of assumptions and election of permissible accounting alternatives. Changes in assumptions can result in different expense and reported asset or liability amounts and future actual experience can differ from the assumptions. Duke Energy believes the most critical assumptions for pension and other post-retirement benefits are the expected long-term rate of return on plan assets and the assumed discount rate applied to future projected benefit payments. Additionally, the health care cost trend rate assumption is critical to Duke Energy's estimate of other post-retirement benefits.

Duke Energy elects to amortize net actuarial gain or loss amounts that are in excess of 10 percent of the greater of the market-related value of plan assets or the plan's projected benefit obligation, into net pension or other post-retirement benefit expense over the average remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period. Prior service cost or credit, which represents an increase or decrease in a plan's pension benefit obligation resulting from plan amendment, is amortized on a straight-line basis over the average expected remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period.

Duke Energy maintains and the Subsidiary Registrants participate in, qualified, non-contributory defined benefit retirement plans. Most participants in the qualified plans earn benefits calculated using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage, which varies with age and years of service, of current eligible earnings and current interest credits. Certain plan participants earn benefits that use a final average earnings

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formula. Certain executives are participants in non-qualified, non-contributory defined benefit retirement plans. These qualified and non-qualified, non-contributory defined benefit plans are closed to new participants.

Duke Energy provides some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Certain employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans.

Assets for Duke Energy's qualified pension and other post-retirement benefits (401(h) accounts) are maintained in the Duke Energy Master Retirement Trust (Master Trust). Duke Energy also invests other post-retirement assets in Voluntary Employees' Beneficiary Association trusts. The investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants.

As of December 31, 2017, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.50 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension liability. Hedge funds, real estate and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers on investments.

In 2013, Duke Energy adopted a de-risking investment strategy for the Master Trust. As the funded status of the pension plans increase, the

targeted allocation to fixed-income assets may be increased to better manage Duke Energy's pension liability and reduce funded status volatility. The asset allocation for the Master Trust is 63 percent fixed-income assets and 37 percent return-seeking assets. Duke Energy regularly reviews its actual asset allocation and periodically rebalances its investments to the targeted allocations when considered appropriate.

Duke Energy discounted its future U.S. pension and other post-retirement obligations using a rate of 3.6 percent as of December 31, 2017. Discount rates used to measure benefit plan obligations for financial reporting purposes reflect rates at which pension benefits could be effectively settled. As of December 31, 2017, Duke Energy determined its discount rate for U.S. pension and other post-retirement obligations using a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

Future changes in plan asset returns, assumed discount rates and various other factors related to the participants in Duke Energy's pension and post-retirement plans will impact future pension expense and liabilities. Duke Energy cannot predict with certainty what these factors will be in the future. The following table presents the approximate effect on Duke Energy's 2017 pretax pension expense, pretax other post-retirement expense, pension obligation and other post-retirement benefit obligation if a 0.25 percent change in rates were to occur.

(in millions)	Qualified and Non- Qualified Pension Plans		Other Post-Retirement Plans	
	0.25%	(0.25)%	0.25%	(0.25)%
Effect on 2017 pretax pension and other post-retirement expense				
Expected long-term rate of return	\$ (21)	\$ 21	\$ (1)	\$ 1
Discount rate	(17)	19	(1)	1
Effect on pension and other post-retirement benefit obligation at December 31, 2017				
Discount rate	(223)	229	(17)	17

Duke Energy's other post-retirement plan uses a health care trend rate covering both pre- and post-age 65 retired plan participants, which is comprised of a medical care trend rate, which reflects the near- and long-term expectation of increases in medical costs, and a prescription drug trend rate, which reflects the near- and long-term expectation of increases in prescription drug costs. As of December 31, 2017, the health care trend rate was 7 percent, trending down to 4.75 percent by 2024. The following table presents the approximate effect on Duke Energy's 2017 pretax other post-retirement expense and other post-retirement benefit obligation if a 1 percentage point change in the health care trend rate were to occur. These plans are closed to new hires.

(in millions)	Other Post-Retirement Plans	
	1%	(1)%
Effect on 2017 other post-retirement expense	\$ 5	\$ (4)
Effect on other post-retirement benefit obligation at December 31, 2017	27	(24)

For further information, see Note 21 to the Consolidated Financial Statements, "Employee Benefit Plans."

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state returns. The Subsidiary Registrants entered into a tax-sharing agreement with Duke Energy. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. ITCs associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

Accumulated deferred income taxes are valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax

asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. Other impacts of the Tax Act have been recorded on a provisional basis, see Note 22, "Income Taxes," for additional information. If Duke Energy's estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, revised to incorporate new accounting principles, or changes in the expected timing or manner of the reversal then Duke Energy's results of operations could be impacted.

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LIQUIDITY AND CAPITAL RESOURCES

Sources and Uses of Cash

Duke Energy relies primarily upon cash flows from operations, debt and equity issuances and its existing cash and cash equivalents to fund its liquidity and capital requirements. Duke Energy's capital requirements arise primarily from capital and investment expenditures, repaying long-term debt and paying dividends to shareholders. Duke Energy's projected primary sources and uses for the next three fiscal years are included in the table below.

(in millions)	2018	2019	2020
Uses:			
Capital expenditures	\$ 10,950	\$ 10,975	\$ 9,050
Debt maturities and reduction in short-term debt ^(a)	3,135	3,500	2,850
Dividend payments ^(b)	2,575	2,750	2,875
Sources:			
Net cash flows from operations	\$ 7,945	\$ 9,150	\$ 9,390
Debt issuances and increase in short-term debt ^(c)	6,000	7,100	3,050
Equity issuances ^(d)	2,000	350	350

- (a) Excludes capital leases. Duke Energy projects a reduction in short-term debt in 2020.
 (b) Subject to approval by the Board of Directors.
 (c) Duke Energy projects an increase in short-term debt in 2018 and 2019.
 (d) 2018 equity issuances to be achieved through a public offering and through issuances under the Equity Distribution Agreement and the Dividend Reinvestment Program (DRIP). See Note 18 to the Consolidated Financial Statements, "Common Stock" for additional information.

Among other provisions, the Tax Act lowers the corporate federal income tax rate from 35 percent to 21 percent and eliminates bonus depreciation for regulated utilities. For Duke Energy's regulated operations, the reduction in federal income taxes is expected to result in lower regulated customer rates. However, due to its existing NOL (Net operating loss) position and other tax credits, Duke Energy does not expect to be a significant federal cash tax payer through at least 2022. As a result, any reduction in customer rates could cause a material reduction in consolidated cash flows from operations in the short-term. Over time, the reduction in deferred tax liabilities resulting from the Tax Act will increase Duke Energy's regulated rate base investments and customer rates. See the Credit Ratings section below for additional information on the impact of the Tax Act on the Duke Energy Registrants' credit ratings. Impacts of Tax Act to Duke Energy's cash flows and credit metrics are subject to the regulatory actions of its state commissions and the FERC, which are currently pending. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

In order to strengthen its balance sheet and credit metrics and bolster cash flows, Duke Energy plans to issue \$2 billion of common stock equity during 2018, including its previous plan to issue \$350 million annually through its DRIP beginning in 2018, as well as reduce its capital expenditures during 2018-2022 by approximately \$1 billion.

The Subsidiary Registrants generally maintain minimal cash balances and use short-term borrowings to meet their working capital needs and other cash requirements. The Subsidiary Registrants, excluding Progress Energy, support their short-term borrowing needs through participation with Duke Energy and certain of its other subsidiaries in a money pool arrangement. The companies with short-term funds may provide short-term loans to affiliates participating under this arrangement. See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for additional discussion of the money pool arrangement.

Duke Energy and the Subsidiary Registrants, excluding Progress Energy, may also use short-term debt, including commercial paper and the money pool, as a bridge to long-term debt financings. The levels of borrowing may vary significantly over the course of the year due to the timing of long-term debt financings and the impact of fluctuations in cash flows from operations. From time to time, Duke Energy's current liabilities exceed current assets

resulting from the use of short-term debt as a funding source to meet scheduled maturities of long-term debt, as well as cash needs, which can fluctuate due to the seasonality of its businesses.

Credit Facilities and Registration Statements

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding credit facilities and shelf registration statements available to Duke Energy and the Duke Energy Registrants.

CAPITAL EXPENDITURES

Duke Energy continues to focus on reducing risk and positioning its business for future success and will invest principally in its strongest business sectors. Duke Energy's projected capital and investment expenditures for the next three fiscal years are included in the table below.

(in millions)	2018	2019	2020
New generation	\$ 780	\$ 260	\$ 135
Regulated renewables	155	415	365
Environmental	610	35	30
Nuclear fuel	500	410	455
Major nuclear	390	335	230
Customer additions	490	485	515
Grid modernization and other transmission and distribution projects	2,585	3,515	3,415
Maintenance and other	2,665	2,445	2,230
Total Electric Utilities and Infrastructure	8,175	7,900	7,375
Gas Utilities and Infrastructure	2,350	2,275	950
Commercial Renewables and Other	425	800	725
Total projected capital and investment expenditures	\$ 10,950	\$ 10,975	\$ 9,050

DEBT MATURITIES

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant components of Current Maturities of Long-Term Debt on the Consolidated Balance Sheets.

DIVIDEND PAYMENTS

In 2017, Duke Energy paid quarterly cash dividends for the 91st consecutive year and expects to continue its policy of paying regular cash dividends in the future. There is no assurance as to the amount of future dividends because they depend on future earnings, capital requirements, financial condition and are subject to the discretion of the Board of Directors.

Duke Energy targets a dividend payout ratio of between 70 percent and 75 percent, based upon adjusted diluted EPS. In 2016 and 2017, Duke Energy increased the dividend by approximately 4 percent annually. Through 2022, the annual dividend growth rate is expected to be between approximately 4 to 6 percent.

Dividend and Other Funding Restrictions of Duke Energy Subsidiaries

As discussed in Note 4 to the Consolidated Financial Statements, "Regulatory Matters," Duke Energy's wholly owned public utility operating companies have restrictions on the amount of funds that can be transferred to Duke Energy through dividends, advances or loans as a result of conditions imposed by various regulators in conjunction with merger transactions. Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures and Articles of Incorporation, which, in certain circumstances, limit their ability to make cash dividends or distributions

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on common stock. Additionally, certain other Duke Energy subsidiaries have other restrictions, such as minimum working capital and tangible net worth requirements pursuant to debt and other agreements that limit the amount of funds that can be transferred to Duke Energy. At December 31, 2017, the amount of restricted net assets of wholly owned subsidiaries of Duke Energy that may not be distributed to Duke Energy in the form of a loan or dividend is less than 25 percent of Duke Energy's net assets. Duke Energy does not have any legal or other restrictions on paying common stock dividends to shareholders out of its consolidated equity accounts. Although these restrictions cap the amount of funding the various operating subsidiaries can provide to Duke Energy, management does not believe these restrictions will have a significant impact on Duke Energy's ability to access cash to meet its payment of dividends on common stock and other future funding obligations.

CASH FLOWS FROM OPERATING ACTIVITIES

Cash flows from operations of Electric Utilities and Infrastructure and Gas Utilities and Infrastructure are primarily driven by sales of electricity and natural gas, respectively, and costs of operations. These cash flows from operations are relatively stable and comprise a substantial portion of Duke Energy's operating cash flows. Weather conditions, working capital and commodity price fluctuations and unanticipated expenses including unplanned plant outages, storms, legal costs and related settlements can affect the timing and level of cash flows from operations.

Duke Energy believes it has sufficient liquidity resources through the commercial paper markets, and ultimately, the Master Credit Facility, to support these operations. Cash flows from operations are subject to a number of other factors, including, but not limited to, regulatory constraints, economic trends and market volatility (see Item 1A, "Risk Factors," for additional information).

At December 31, 2017, Duke Energy had cash and cash equivalents and short-term investments of \$358 million.

DEBT ISSUANCES

Depending on availability based on the issuing entity, the credit rating of the issuing entity, and market conditions, the Subsidiary Registrants prefer to issue first mortgage bonds and secured debt, followed by unsecured debt. This preference is the result of generally higher credit ratings for first mortgage bonds and secured debt, which typically result in lower interest costs. Duke Energy Corporation primarily issues unsecured debt.

See to Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant debt issuances.

Duke Energy's capitalization is balanced between debt and equity as shown in the table below.

	Projected 2018	Actual 2017	Actual 2016
Equity	44%	43%	45%
Debt	56%	57%	55%

Duke Energy's fixed charges coverage ratio, calculated using Securities and Exchange Commission (SEC) guidelines, was 2.9 times for 2017, 2.7 times for 2016 and 3.1 times for 2015.

Restrictive Debt Covenants

Duke Energy's debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio to not exceed 65 percent for each borrower, excluding Piedmont, and 70 percent for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements or sublimits thereto. As of December 31, 2017, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Credit Ratings

Moody's Investors Service, Inc. (Moody's), Standard & Poor's Rating Services (S&P) and Fitch Ratings, Inc. provide credit ratings for various Duke Energy Registrants. The following table includes Duke Energy and certain subsidiaries' credit ratings and ratings outlook as of February 2018.

	Moody's	S&P	Fitch
Duke Energy Corporation	Negative ^(a)	Stable	Negative
Issuer Credit Rating	Baa1	A-	BBB+
Senior Unsecured Debt	Baa1	BBB+	BBB+
Commercial Paper	P-2	A-2	F-2
Duke Energy Carolinas	Stable	Stable	N/A
Senior Secured Debt	Aa2	A	N/A
Senior Unsecured Debt	A1	A-	N/A
Progress Energy	Stable	Stable	N/A
Senior Unsecured Debt	Baa2	BBB+	N/A
Duke Energy Progress	Stable	Stable	N/A
Senior Secured Debt	Aa3	A	N/A
Duke Energy Florida	Stable	Stable	N/A
Senior Secured Debt	A1	A	N/A
Senior Unsecured Debt	A3	A-	N/A
Duke Energy Ohio	Positive	Stable	N/A
Senior Secured Debt	A2	A	N/A
Senior Unsecured Debt	Baa1	A-	N/A
Duke Energy Indiana	Stable	Stable	N/A
Senior Secured Debt	Aa3	A	N/A
Senior Unsecured Debt	A2	A-	N/A
Duke Energy Kentucky	Stable	Stable	N/A
Senior Unsecured Debt	Baa1	A-	N/A
Piedmont Natural Gas	Negative ^(a)	Stable	N/A
Senior Unsecured	A2	A-	N/A

(a) In January 2018, Moody's revised the ratings outlook for Duke Energy Corporation and Piedmont from stable to negative, principally due to risk of deterioration in credit metrics resulting from the Tax Act. See the Tax Cuts and Jobs Act section above for additional information on the Tax Act.

Credit ratings are intended to provide credit lenders a framework for comparing the credit quality of securities and are not a recommendation to buy, sell or hold. The Duke Energy Registrants' credit ratings are dependent on the rating agencies' assessments of their ability to meet their debt principal and interest obligations when they come due. If, as a result of market conditions or other factors, the Duke Energy Registrants are unable to maintain current balance sheet strength, or if earnings and cash flow outlook materially deteriorates, credit ratings could be negatively impacted.

Cash Flow Information

The following table summarizes Duke Energy's cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Cash flows provided by (used in):			
Operating activities	\$ 6,634	\$ 6,817	\$ 6,700
Investing activities	(8,450)	(11,533)	(5,277)
Financing activities	1,782	4,251	(2,602)
Changes in cash and cash equivalents included in assets held for sale	—	474	1,099
Net (decrease) increase in cash and cash equivalents	(34)	9	(80)
Cash and cash equivalents at beginning of period	392	383	463
Cash and cash equivalents at end of period	\$ 358	\$ 392	\$ 383

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OPERATING CASH FLOWS

The following table summarizes key components of Duke Energy's operating cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Net income	\$ 3,064	\$ 2,170	\$ 2,831
Non-cash adjustments to net income	5,380	5,305	4,800
Contributions to qualified pension plans	(19)	(155)	(302)
Payments for AROs	(571)	(608)	(346)
Working capital	(1,220)	105	(283)
Net cash provided by operating activities	\$ 6,634	\$ 6,817	\$ 6,700

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$1,325 million decrease in working capital due to weather, payment of merger transaction and integration related costs and increased property tax payments in 2017.

Offset by:

- a \$969 million increase in net income after non-cash adjustments primarily due to the inclusion of Piedmont's earnings for a full year, favorable pricing and weather-normal retail volumes driven by the residential class in the Electric Utilities and Infrastructure Segment combined with continued strong cost control;
- a \$136 million decrease in contributions to qualified pension plans; and
- a \$37 million decrease in payments to AROs.

For the year ended December 31, 2016, compared to 2015, the variance was driven primarily by:

- a \$388 million increase in cash flows from working capital primarily due to the sale of the International business; and
- a \$147 million decrease in contributions to qualified pension plans.

Offset by:

- a \$262 million increase in payments for AROs; and
- a \$156 million decrease in net income after non-cash adjustments due to higher storm costs offset by favorable weather, increased rider revenues, higher wholesale margins and strong cost control.

INVESTING CASH FLOWS

The following table summarizes key components of Duke Energy's investing cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Capital, investment and acquisition expenditures	\$ (8,198)	\$ (13,215)	\$ (8,363)
Available for sale securities, net	27	83	3
Net proceeds from the sales of discontinued operations and other assets, net of cash divested	—	1,418	2,968
Other investing items	(279)	181	115
Net cash used in investing activities	\$ (8,450)	\$ (11,533)	\$ (5,277)

The primary use of cash related to investing activities is capital, investment and acquisition expenditures, detailed by reportable business segment in the following table.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Electric Utilities and Infrastructure	\$ 7,024	\$ 6,649	\$ 6,852
Gas Utilities and Infrastructure	907	5,519	234
Commercial Renewables	92	857	1,019
Other	175	190	258
Total capital, investment and acquisition expenditures	\$ 8,198	\$ 13,215	\$ 8,363

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$5,017 million decrease in capital, investment and acquisition expenditures mainly due to the Piedmont acquisition in the prior year.

Partially offset by:

- a \$1,418 million decrease in net proceeds from sales of discontinued operations due to the prior year sale of the International business.

For the year ended December 31, 2016, compared to 2015, the variance was driven primarily by:

- a \$4,852 million increase in capital, investment and acquisition expenditures mainly due to the Piedmont acquisition; and
- a \$1,550 million decrease in net proceeds from sales of discontinued operations mainly due to the variance in proceeds between the 2015 sale of the Midwest generation business and the 2016 sale of the International business.

FINANCING CASH FLOWS

The following table summarizes key components of Duke Energy's financing cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Issuance of common stock	\$ —	\$ 731	\$ 17
Issuances (Repayments) of long-term debt, net	4,593	7,315	(74)
Notes payable and commercial paper	(362)	(1,447)	1,245
Dividends paid	(2,450)	(2,332)	(2,254)
Repurchase of common shares	—	—	(1,500)
Other financing items	1	(16)	(36)
Net cash provided by (used in) financing activities	\$ 1,782	\$ 4,251	\$ (2,602)

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$2,722 million net decrease in proceeds from issuances of long-term debt driven principally by the prior year \$3,750 million of senior unsecured notes used to fund a portion of the Piedmont acquisition, offset primarily by \$900 million of first mortgage bonds issued by Duke Energy Florida in the current year to fund capital expenditures for ongoing construction and capital maintenance and for general corporate purposes;
- a \$731 million decrease in proceeds from stock issuances used to fund a portion of the Piedmont acquisition in 2016; and
- a \$118 million current year increase in dividends paid.

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Partially offset by:

- a \$1,085 million decrease in net borrowings from notes payable and commercial paper primarily due to the use of proceeds from \$1,294 million nuclear asset-recovery bonds issued at Duke Energy Florida in 2016 to pay down outstanding commercial paper.

For the year ended December 31, 2016, compared to 2015, the variance was driven primarily by:

- a \$7,389 million increase in proceeds from net issuances of long-term debt mainly due to the issuances of \$3,750 million of senior unsecured notes used to fund a portion of the Piedmont acquisition, \$1,294 million of nuclear asset-recovery bonds and other issuances primarily used to fund capital expenditures, pay down outstanding commercial paper and repay debt maturities;

- a \$1,500 million decrease in cash outflows due to the 2015 repurchase of 19.8 million common shares under the ASR; and

- a \$714 million increase in proceeds resulting from the issuance of common stock to fund the acquisition of Piedmont.

Partially offset by:

- a \$2,692 million increase in cash outflows for the net payments of notes payable and commercial paper primarily through the use of proceeds from \$1,294 million nuclear asset-recovery bonds issued at Duke Energy Florida, further increased by the use of short-term debt in 2015 to repay long-term debt maturities at Duke Energy Florida in advance of the 2016 proceeds from the nuclear asset-recovery bonds.

Off-Balance Sheet Arrangements

Duke Energy and certain of its subsidiaries enter into guarantee arrangements in the normal course of business to facilitate commercial transactions with third parties. These arrangements include performance guarantees, stand-by letters of credit, debt guarantees, surety bonds and indemnifications.

Most of the guarantee arrangements entered into by Duke Energy enhance the credit standing of certain subsidiaries, non-consolidated entities or less than wholly owned entities, enabling them to conduct business. As such, these guarantee arrangements involve elements of performance and credit risk, which are not always included on the Consolidated Balance Sheets. The possibility of Duke Energy, either on its own or on behalf of Spectra Energy Capital, LLC (Spectra Capital) through indemnification agreements entered into as part of the January 2, 2007, spin-off of Spectra Energy Corp, having to honor its contingencies is largely dependent upon the future operations of the subsidiaries, investees and other third parties, or the occurrence of certain future events.

Duke Energy performs ongoing assessments of its respective guarantee obligations to determine whether any liabilities have been incurred as a result of potential increased non-performance risk by third parties for which Duke Energy has issued guarantees.

See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further details of the guarantee arrangements.

Issuance of these guarantee arrangements is not required for the majority of Duke Energy's operations. Thus, if Duke Energy discontinued issuing these guarantees, there would not be a material impact to the consolidated results of operations, cash flows or financial position.

Other than the guarantee arrangements discussed above, normal operating lease arrangements and off-balance sheet debt related to non-consolidated VIEs, Duke Energy does not have any material off-balance sheet financing entities or structures. For additional information, see Notes 5, 7 and 17 to the Consolidated Financial Statements, "Commitments and Contingencies," "Guarantees and Indemnifications" and "Variable Interest Entities," respectively.

Contractual Obligations

Duke Energy enters into contracts that require payment of cash at certain specified periods, based on certain specified minimum quantities and prices. The following table summarizes Duke Energy's contractual cash obligations as of December 31, 2017.

(in millions)	Total	Payments Due By Period			
		Less than 1 year (2018)	2-3 years (2019 & 2020)	4-5 years (2021 & 2022)	More than 5 years (2023 & beyond)
Long-term debt ^(a)	\$ 49,962	\$ 3,127	\$ 7,062	\$ 6,541	\$ 33,232
Interest payments on long-term debt ^(b)	30,943	2,014	3,590	3,144	22,195
Capital leases ^(c)	1,601	168	343	345	745
Operating leases ^(c)	1,786	233	386	285	882
Purchase obligations: ^(d)					
Fuel and purchased power ^{(e)(f)}	30,956	4,506	6,085	4,474	15,891
Other purchase obligations ^(d)	8,726	6,642	1,406	121	557
Nuclear decommissioning trust annual funding ^(b)	285	14	28	28	215
Total contractual cash obligations^{(d)(f)}	\$ 124,259	\$ 16,704	\$ 18,900	\$ 14,938	\$ 73,717

(a) See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities."

(b) Interest payments on variable rate debt instruments were calculated using December 31, 2017, interest rates and holding them constant for the life of the instruments.

(c) See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies." Amounts in the table above include the interest component of capital leases based on the interest rates stated in the lease agreements and exclude certain related executory costs. Amounts exclude contingent lease obligations.

(d) Current liabilities, except for current maturities of long-term debt, and purchase obligations reflected on the Consolidated Balance Sheets have been excluded from the above table.

(e) Includes firm capacity payments that provide Duke Energy with uninterrupted firm access to electricity transmission capacity and natural gas transportation contracts, as well as undesignated contracts and contracts that qualify as normal purchase/normal sale (NPNS). For contracts where the price paid is based on an index, the amount is based on market prices at December 31, 2017, or the best projections of the index. For certain of these amounts, Duke Energy may settle on a net cash basis since Duke Energy has entered into payment netting arrangements with counterparties that permit Duke Energy to offset receivables and payables with such counterparties.

(f) Amounts exclude obligations under the OVEC purchase power agreement. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities," for additional information.

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- (g) Includes contracts for software, telephone, data and consulting or advisory services. Amount also includes contractual obligations for engineering, procurement and construction costs for new generation plants, wind and solar facilities, plant refurbishments, maintenance and day-to-day contract work and commitments to buy certain products. Amount excludes certain open purchase orders for services that are provided on demand, for which the timing of the purchase cannot be determined.
- (h) Related to future annual funding obligations to NDTF through nuclear power stations' relicensing dates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."
- (i) Unrecognized tax benefits of \$25 million are not reflected in this table as Duke Energy cannot predict when open income tax years will close with completed examinations. See Note 22 to the Consolidated Financial Statements, "Income Taxes."
- (j) The table above excludes reserves for litigation, environmental remediation, asbestos-related injuries and damages claims and self-insurance claims (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies") because Duke Energy is uncertain as to the timing and amount of cash payments that will be required. Additionally, the table above excludes annual insurance premiums that are necessary to operate the business, including nuclear insurance (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies"), funding of pension and other post-retirement benefit plans (see Note 21 to the Consolidated Financial Statements, "Employee Benefit Plans"), AROs, including ash management expenditures (see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations") and regulatory liabilities (see Note 4 to the Consolidated Financial Statements, "Regulatory Matters") because the amount and timing of the cash payments are uncertain. Also excluded are Deferred Income Taxes and ITCs recorded on the Consolidated Balance Sheets since cash payments for income taxes are determined based primarily on taxable income for each discrete fiscal year.

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Risk Management Policies

The Enterprise Risk Management policy framework at Duke Energy includes strategy, operational, project execution and financial or transaction related risks. Enterprise Risk Management includes market risk as part of the financial and transaction related risks in its framework.

Duke Energy is exposed to market risks associated with commodity prices, interest rates and equity prices. Duke Energy has established comprehensive risk management policies to monitor and manage these market risks. Duke Energy's Chief Executive Officer and Chief Financial Officer are responsible for the overall approval of market risk management policies and the delegation of approval and authorization levels. The Finance and Risk Management Committee of the Board of Directors receives periodic updates from the Chief Risk Officer and other members of management on market risk positions, corporate exposures and overall risk management activities. The Chief Risk Officer is responsible for the overall governance of managing commodity price risk, including monitoring exposure limits.

The following disclosures about market risk contain forward-looking statements that involve estimates, projections, goals, forecasts, assumptions, risks and uncertainties that could cause actual results or outcomes to differ materially from those expressed in the forward-looking statements. Please review Item 1A, "Risk Factors," and "Cautionary Statement Regarding Forward-Looking Information" for a discussion of the factors that may impact any such forward-looking statements made herein.

Commodity Price Risk

Duke Energy is exposed to the impact of market fluctuations in the prices of electricity, coal, natural gas and other energy-related products marketed and purchased as a result of its ownership of energy-related assets. Duke Energy's exposure to these fluctuations is limited by the cost-based regulation of its regulated operations as these operations are typically allowed to recover substantially all of these costs through various cost-recovery clauses, including fuel clauses, formula based contracts, or other cost-sharing mechanisms. While there may be a delay in timing between when these costs are incurred and when they are recovered through rates, changes from year to year generally do not have a material impact on operating results of these regulated operations.

Price risk represents the potential risk of loss from adverse changes in the market price of electricity or other energy commodities. Duke Energy's exposure to commodity price risk is influenced by a number of factors, including contract size, length, market liquidity, location and unique or specific contract terms. Duke Energy employs established policies and procedures to manage risks associated with these market fluctuations, which may include using various commodity derivatives, such as swaps, futures, forwards and options. For additional information, see Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging."

The inputs and methodologies used to determine the fair value of contracts are validated by an internal group separate from Duke Energy's deal origination function. While Duke Energy uses common industry practices to develop its valuation techniques, changes in its pricing methodologies or the

underlying assumptions could result in significantly different fair values and income recognition.

Hedging Strategies

Duke Energy closely monitors risks associated with commodity price changes on its future operations and, where appropriate, uses various commodity instruments such as electricity, coal and natural gas forward contracts and options to mitigate the effect of such fluctuations on operations. Duke Energy's primary use of energy commodity derivatives is to hedge against exposure to the prices of power, fuel for generation and natural gas for customers.

The majority of instruments used to manage Duke Energy's commodity price exposure are either not designated as hedges or do not qualify for hedge accounting. These instruments are referred to as undesignated contracts. Mark-to-market changes for undesignated contracts entered into by regulated businesses are reflected as regulatory assets or liabilities on the Consolidated Balance Sheets. Undesignated contracts entered into by unregulated businesses are marked-to-market each period, with changes in the fair value of the derivative instruments reflected in earnings.

Duke Energy may also enter into other contracts that qualify for the NPNS exception. When a contract meets the criteria to qualify as NPNS, Duke Energy applies such exception. Income recognition and realization related to NPNS contracts generally coincide with the physical delivery of the commodity. For contracts qualifying for the NPNS exception, no recognition of the contract's fair value in the Consolidated Financial Statements is required until settlement of the contract as long as the transaction remains probable of occurring.

Generation Portfolio Risks

The Duke Energy Registrants optimize the value of their generation portfolios, which include generation assets, fuel and emission allowances. Modeled forecasts of future generation output and fuel requirements are based on forward power and fuel markets. The component pieces of the portfolio are bought and sold based on models and forecasts of generation in order to manage the economic value of the portfolio in accordance with the strategies of the business units.

For the Electric Utilities segment, the generation portfolio not utilized to serve retail operations or committed load is subject to commodity price fluctuations. However, the impact on the Consolidated Statements of Operations is partially offset by mechanisms in these regulated jurisdictions that result in the sharing of net profits from these activities with retail customers.

Interest Rate Risk

Duke Energy is exposed to risk resulting from changes in interest rates as a result of its issuance of variable and fixed-rate debt and commercial paper. Duke Energy manages interest rate exposure by limiting variable-rate exposures to a percentage of total debt and by monitoring the effects of market changes in interest rates. Duke Energy also enters into financial derivative instruments, which may include instruments such as, but not limited to, interest rate swaps, swaptions and U.S. Treasury lock agreements to manage and mitigate interest rate risk exposure. See Notes 1, 6, 14 and 16 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," "Debt and Credit Facilities," "Derivatives and Hedging," and "Fair Value Measurements."

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At December 31, 2017, Duke Energy had \$687 million notional amount of floating-to-fixed swaps outstanding, \$500 million notional amount of fixed-to-floating swaps outstanding and \$400 million forward-starting swaps outstanding. Duke Energy had \$6.1 billion of unhedged long- and short-term floating interest rate exposure at December 31, 2017. The impact of a 100 basis point change in interest rates on pretax income is approximately \$61 million at December 31, 2017. This amount was estimated by considering the impact of the hypothetical interest rates on variable-rate securities outstanding, adjusted for interest rate hedges as of December 31, 2017.

See Note 14, "Derivatives and Hedging," to the Consolidated Financial Statements for additional information about the forward-starting interest rate swaps related to the Piedmont acquisition.

Credit Risk

Credit risk represents the loss that the Duke Energy Registrants would incur if a counterparty fails to perform under its contractual obligations. Where exposed to credit risk, the Duke Energy Registrants analyze the counterparty's financial condition prior to entering into an agreement and monitor exposure on an ongoing basis. The Duke Energy Registrants establish credit limits where appropriate in the context of contractual arrangements and monitor such limits.

To reduce credit exposure, the Duke Energy Registrants seek to include netting provisions with counterparties, which permit the offset of receivables and payables with such counterparties. The Duke Energy Registrants also frequently use master agreements with credit support annexes to further mitigate certain credit exposures. The master agreements provide for a counterparty to post cash or letters of credit to the exposed party for exposure in excess of an established threshold. The threshold amount represents a negotiated unsecured credit limit for each party to the agreement, determined in accordance with the Duke Energy Registrants' internal corporate credit practices and standards. Collateral agreements generally also provide that the inability to post collateral is sufficient cause to terminate contracts and liquidate all positions.

The Duke Energy Registrants also obtain cash or letters of credit from certain counterparties to provide credit support outside of collateral agreements, where appropriate, based on a financial analysis of the counterparty and the regulatory or contractual terms and conditions applicable to each transaction. See Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging," for additional information regarding credit risk related to derivative instruments.

The Duke Energy Registrants' principal counterparties for its electric and natural gas businesses are regional transmission organizations, distribution companies, municipalities, electric cooperatives and utilities located throughout the U.S. The Duke Energy Registrants have concentrations of receivables from such entities throughout these regions. These concentrations of receivables may affect the Duke Energy Registrants' overall credit risk in that risk factors can negatively impact the credit quality of the entire sector.

The Duke Energy Registrants are also subject to credit risk from transactions with their suppliers that involve prepayments in conjunction with outsourcing arrangements, major construction projects and certain commodity purchases. The Duke Energy Registrants' credit exposure to such suppliers may take the form of increased costs or project delays in the event of non-performance. The Duke Energy Registrants' frequently require guarantees or letters of credit from suppliers to mitigate this credit risk.

Credit risk associated with the Duke Energy Registrants' service to residential, commercial and industrial customers is generally limited to outstanding accounts receivable. The Duke Energy Registrants mitigate this credit risk by requiring customers to provide a cash deposit, letter of credit or surety bond until a satisfactory payment history is established, subject to the rules and regulations in effect in each retail jurisdiction, at which time the deposit is typically refunded. Charge-offs for retail customers have historically been insignificant to the operations of the Duke Energy Registrants and are typically recovered through retail rates. Management continually monitors customer charge-offs and payment patterns to ensure the adequacy of bad debt reserves. Duke Energy Ohio and Duke Energy Indiana sell certain of their

accounts receivable and related collections through Cinergy Receivables Company LLC (CRC), a Duke Energy consolidated variable interest entity. Losses on collection are first absorbed by the equity of CRC and next by the subordinated retained interests held by Duke Energy Ohio, Duke Energy Kentucky and Duke Energy Indiana. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities."

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. Duke Energy Carolinas' cumulative payments began to exceed the self-insurance retention in 2008. Future payments up to the policy limit will be reimbursed by the third-party insurance carrier. The insurance policy limit for potential future insurance recoveries indemnification and medical cost claim payments is \$797 million in excess of the self-insured retention. Receivables for insurance recoveries were \$489 million and \$587 million at December 31, 2017, and 2016, respectively. These amounts are classified in Other within Other Noncurrent Assets on the Consolidated Balance Sheets. Duke Energy Carolinas is not aware of any uncertainties regarding the legal sufficiency of insurance claims. Duke Energy Carolinas believes the insurance recovery asset is probable of recovery as the insurance carrier continues to have a strong financial strength rating.

The Duke Energy Registrants also have credit risk exposure through issuance of performance and financial guarantees, letters of credit and surety bonds on behalf of less than wholly owned entities and third parties. Where the Duke Energy Registrants have issued these guarantees, it is possible that they could be required to perform under these guarantee obligations in the event the obligor under the guarantee fails to perform. Where the Duke Energy Registrants have issued guarantees related to assets or operations that have been disposed of via sale, they attempt to secure indemnification from the buyer against all future performance obligations under the guarantees. See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further information on guarantees issued by the Duke Energy Registrants.

Based on the Duke Energy Registrants' policies for managing credit risk, their exposures and their credit and other reserves, the Duke Energy Registrants do not currently anticipate a materially adverse effect on their consolidated financial position or results of operations as a result of non-performance by any counterparty.

Marketable Securities Price Risk

As described further in Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," Duke Energy invests in debt and equity securities as part of various investment portfolios to fund certain obligations. The vast majority of investments in equity securities are within the NDTF and assets of the various pension and other post-retirement benefit plans.

Pension Plan Assets

Duke Energy maintains investments to facilitate funding the costs of providing non-contributory defined benefit retirement and other post-retirement benefit plans. These investments are exposed to price fluctuations in equity markets and changes in interest rates. The equity securities held in these pension plans are diversified to achieve broad market participation and reduce the impact of any single investment, sector or geographic region. Duke Energy has established asset allocation targets for its pension plan holdings, which take into consideration the investment objectives and the risk profile with respect to the trust in which the assets are held. See Note 21 to the Consolidated Financial Statements, "Employee Benefit Plans," for additional information regarding investment strategy of pension plan assets.

A significant decline in the value of plan asset holdings could require Duke Energy to increase funding of its pension plans in future periods, which could adversely affect cash flows in those periods. Additionally, a decline in the fair value of plan assets, absent additional cash contributions to the plan, could increase the amount of pension cost required to be recorded in future periods, which could adversely affect Duke Energy's results of operations in those periods.

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Nuclear Decommissioning Trust Funds

As required by the NRC, NCUC, PSCSC and FPSC, subsidiaries of Duke Energy maintain trust funds to fund the costs of nuclear decommissioning. As of December 31, 2017, these funds were invested primarily in domestic and international equity securities, debt securities, cash and cash equivalents and short-term investments. Per the NRC, Internal Revenue Code, NCUC, PSCSC and FPSC requirements, these funds may be used only for activities related to nuclear decommissioning. These investments are exposed to price fluctuations in equity markets and changes in interest rates. Duke Energy actively monitors its portfolios by benchmarking the performance of its investments against certain indices and by maintaining, and periodically reviewing, target allocation percentages for various asset classes.

Accounting for nuclear decommissioning recognizes that costs are recovered through retail and wholesale rates; therefore, fluctuations in investment prices do not materially affect the Consolidated Statements of Operations, as changes in the fair value of these investments are primarily deferred as regulatory assets or regulatory liabilities pursuant to Orders by the NCUC, PSCSC, FPSC and FERC. Earnings or losses of the fund will ultimately impact the amount of costs recovered through retail and wholesale rates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information regarding nuclear decommissioning costs. See Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," for additional information regarding NDTF assets.

OTHER MATTERS

Ratios of Earnings to Fixed Charges

The Duke Energy Registrants' ratios of earnings to fixed charges, as calculated using SEC guidelines, are included in the tables below.

	Years Ended December 31,		
	2017	2016	2015
Duke Energy	2.9	2.7	3.1
Duke Energy Carolinas	4.8	4.7	4.7
Progress Energy	2.7	3.0	2.9
Duke Energy Progress	4.1	4.0	3.7
Duke Energy Florida	3.3	4.3	4.3
Duke Energy Ohio	3.4	3.8	3.6
Duke Energy Indiana	4.4	4.1	3.6

	Year Ended	Two Months Ended	Years Ended October 31,	
	December 31, 2017	December 31, 2016	2016	2015
Piedmont	3.3	6.6	4.7	3.7

Environmental Regulations

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters. These regulations can be changed from time to time and result in new obligations of the Duke Energy Registrants.

The following sections outline various proposed and recently enacted legislation and regulations that may impact the Duke Energy Registrants. Refer to Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for further information regarding potential plant retirements and regulatory filings related to the Duke Energy Registrants.

Coal Combustion Residuals

In April 2015, EPA published a rule to regulate the disposal of CCR from electric utilities as solid waste. The federal regulation classifies CCR as nonhazardous waste and allows for beneficial use of CCR with some restrictions. The regulation applies to all new and existing landfills, new and existing surface impoundments receiving CCR and existing surface impoundments that are no longer receiving CCR but contain liquid located at stations currently generating electricity (regardless of fuel source). The rule establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures to ensure the safe disposal and management of CCR. Various industry and environmental parties have appealed EPA's CCR rule in the U.S. Court of Appeals for the District of Columbia (D.C. Circuit Court). On April 18, 2016, EPA filed a motion with the federal court to settle five issues raised in litigation. On June 14, 2016, the court approved the motion with respect to

all of those issues. Duke Energy does not expect a material impact from the settlement or that it will result in additional ARO adjustments. On September 13, 2017, EPA responded to a petition by the Utility Solid Waste Activities Group that the agency would reconsider certain provisions of the final rule, and asked the D.C. Circuit Court to suspend the litigation. The D.C. Circuit Court denied EPA's petition to suspend the litigation and oral argument was held on November 20, 2017. The court has not issued an order in the matter. Duke Energy cannot predict the outcome of the litigation.

In a November 15, 2017, status report filed with the D.C. Circuit Court, EPA listed the provisions it intends to reconsider, including provisions that warrant revision due to passage of the Water Infrastructure Improvements for the Nation Act, which allows for implementation of the CCR rule through state or federal permit programs. EPA has indicated it will issue a proposed rule in early 2018 that includes provisions from the June 2016 settlement with petitioners and additional provisions under reconsideration. The reconsideration would not repeal the CCR rule; rather, it would modify some requirements to align with the implementation of the rule through permit programs. At this time, Duke Energy does not expect a reconsideration rulemaking to have a material impact on its coal ash basin closure plans or compliance requirements under the CCR rule.

In addition to the requirements of the federal CCR regulation, CCR landfills and surface impoundments will continue to be independently regulated by most states. Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions and via wholesale contracts, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. For more information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

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Coal Ash Management Act of 2014

AROs recorded on the Duke Energy Carolinas and Duke Energy Progress Consolidated Balance Sheets at December 31, 2017, and December 31, 2016, include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of the Coal Ash Act, the EPA CCR rule and other agreements. The Coal Ash Act requires Duke Energy to undertake dam improvement projects and to provide access to a permanent alternative drinking water source to certain residents within a half-mile of coal ash basin compliance boundaries and to certain other potentially impacted residents. The legislation requires excavation of the Sutton, Riverbend and Dan River basins by August 1, 2019, and Asheville basins by August 1, 2022. Excavation at these sites may include a combination of transfer of coal ash to an engineered landfill or conversion for beneficial use. Basins at the H.F. Lee, Cape Fear and Weatherspoon sites are required to be closed through excavation no later than August 1, 2028. Excavation at these sites can include conversion of the basin to a lined industrial landfill, transfer of ash to an engineered landfill or conversion for beneficial use. The remaining basins are required to be closed no later than December 31, 2024, through conversion to a lined industrial landfill, transfer to an engineered landfill or conversion for beneficial use, unless certain dam improvement projects and alternative drinking water source projects are completed by October 15, 2018. Upon satisfactory completion of these projects, the closure deadline would be extended to December 31, 2029, and could include closure through the combination of a cap system and a groundwater monitoring system.

Additionally, the Coal Ash Act requires the installation and operation of three large-scale coal ash beneficiation projects to produce reprocessed ash for use in the concrete industry. Duke Energy selected the Buck, H.F. Lee and Cape Fear plants for these projects. Closure at these sites is required to be completed no later than December 31, 2029.

The Coal Ash Act includes a variance procedure for compliance deadlines and other issues surrounding the management of CCR and CCR surface impoundments and prohibits cost recovery in customer rates for unlawful discharge of ash impoundment waters occurring after January 1, 2014. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of ash impoundments to the normal ratemaking processes before utility regulatory commissions. Consistent with the requirements of the Coal Ash Act, Duke Energy has submitted comprehensive site assessments and groundwater corrective plans to NCDEQ and will submit to NCDEQ site-specific coal ash impoundment closure plans in advance of closure. These plans and all associated permits must be approved by NCDEQ before closure work can begin.

For further information on AROs, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

Clean Water Act 316(b)

EPA published the final 316(b) cooling water intake structure rule on August 15, 2014, with an effective date of October 14, 2014. The rule applies to 26 of the electric generating facilities the Duke Energy Registrants own and operate. The rule allows for several options to demonstrate compliance and provides flexibility to the state environmental permitting agencies to make determinations on controls, if any, that will be required for cooling water intake structures. Any required intake structure modifications and/or retrofits are expected to be installed in the 2019 to 2023 time frame. Petitions challenging the rule have been filed by several groups. Oral argument was held on September 14, 2017. It is unknown when the courts will rule on the petitions. The Duke Energy Registrants cannot predict the outcome of these matters.

Steam Electric Effluent Limitations Guidelines

On January 4, 2016, the final Steam Electric Effluent Limitations Guidelines (ELG) rule became effective. The rule establishes new requirements for wastewater streams associated with steam electric power generation and includes more stringent controls for any new coal plants that may be built in the future. As originally written, affected facilities were required to comply

between 2018 and 2023, depending on the timing of Clean Water Act (CWA) discharge permits. Most of the steam electric generating facilities the Duke Energy Registrants own are affected sources. The Duke Energy Registrants are well-positioned to meet the majority of the requirements of the rule due to current efforts to convert to dry ash handling. Petitions challenging the rule have been filed by several groups. On March 16, 2015, Duke Energy Indiana filed its own legal challenge to the rule with the Seventh Circuit Court of Appeals specific to the ELG rule focused on the limits imposed on IGCC facilities (gasification wastewater). All challenges to the rule were consolidated in the Fifth Circuit Court of Appeals. On August 22, 2017, the Fifth Circuit Court of Appeals granted EPA's Motion to Govern Further Proceedings, thereby severing and suspending the claims related to flue gas desulfurization wastewater, bottom ash transport water and gasification wastewater. Claims regarding gasification wastewater were stayed, pending the issuance of the variance to Duke Energy Indiana. The litigation will continue as to claims related to other waste streams.

On August 7, 2017, EPA issued a public notice regarding its proposed decision to grant a variance to Duke Energy Indiana for mercury and total dissolved solids for gasification wastewater at its Edwardsport facility. The public comment period has ended, but EPA has not finalized its decision. Separate from the litigation, EPA finalized a rule on September 18, 2017, postponing the earliest applicability date for bottom ash transport water and flue gas desulfurization wastewater from 2018 to 2020 and retaining the end applicability date of 2023. Also, as part of the rule, EPA reiterated its intent to review the limitation guidelines for bottom ash transport water and flue gas desulfurization wastewater and potentially to conduct a new rulemaking to revise those guidelines.

The Duke Energy Registrants cannot predict the outcome of these matters.

Estimated Cost and Impacts of Rulemakings

Duke Energy will incur capital expenditures to comply with the environmental regulations and rules discussed above. The following table provides five-year estimated costs, excluding AFUDC, of new control equipment that may need to be installed on existing power plants primarily to comply with the Coal Ash Act requirements for conversion to dry disposal of bottom ash and fly ash, CWA 316(b) and ELGs through December 31, 2022. The table excludes ash basin closure costs recorded in Asset retirement obligations on the Consolidated Balance Sheets. For more information related to AROs, see Note 9 to the Consolidated Financial Statements.

(in millions)	Five-Year Estimated Costs
Duke Energy	\$ 920
Duke Energy Carolinas	380
Progress Energy	360
Duke Energy Progress	230
Duke Energy Florida	130
Duke Energy Ohio	70
Duke Energy Indiana	110

The Duke Energy Registrants also expect to incur increased fuel, purchased power, operation and maintenance and other expenses, in addition to costs for replacement generation for potential coal-fired power plant retirements, as a result of these regulations. Actual compliance costs incurred may be materially different from these estimates due to reasons such as the timing and requirements of EPA regulations and the resolution of legal challenges to the rules. The Duke Energy Registrants intend to seek rate recovery of necessary and prudently incurred costs associated with regulated operations to comply with these regulations.

Cross-State Air Pollution Rule

On December 3, 2015, EPA proposed a rule to lower the Cross-State Air Pollution Rule (CSAPR) Phase 2 state ozone season nitrogen oxide (NO_x) emission budgets for 23 eastern states, including North Carolina, Ohio, Kentucky

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and Indiana. EPA also proposed to eliminate the CSAPR Phase 2 ozone season state NO_x budgets for Florida and South Carolina. On September 7, 2016, EPA finalized a CSAPR Update Rule that reduces the CSAPR Phase 2 state ozone season NO_x emission budgets for 22 eastern states, including Ohio, Kentucky and Indiana. In the final CSAPR Update Rule, EPA removed Florida, South Carolina and North Carolina from the ozone season NO_x program. Beginning in 2017, Duke Energy Registrants in these states will not be subject to any CSAPR ozone season NO_x emission limitations. For the states that remain in the program, the reduced state ozone season NO_x emission budgets took effect on May 1, 2017. In Kentucky and Indiana, where Duke Energy Registrants own and operate coal-fired electric generating units (EGUs) subject to the final rule requirements, near-term responses include changing unit dispatch to run certain generating units less frequently and/or purchasing NO_x allowances from the trading market. Longer term, upgrading the performance of existing NO_x controls is an option. The Indiana Utility Group and the Indiana Energy Association jointly filed a petition for reconsideration asking that EPA correct errors it made in calculating the Indiana budget and increase the budget accordingly. EPA has yet to act on the petition. Numerous parties have filed petitions with the D.C. Circuit Court challenging various aspects of the CSAPR Update Rule. Final briefs in the case are due April 9, 2018. The date for oral argument has not been established. The Duke Energy Registrants cannot predict the outcome of these matters.

Carbon Pollution Standards for New, Modified and Reconstructed Power Plants

On October 23, 2015, EPA published a final rule in the Federal Register establishing carbon dioxide (CO₂) emissions limits for new, modified and reconstructed power plants. The requirements for new plants apply to plants that commenced construction after January 8, 2014. EPA set an emissions standard for coal units of 1,400 pounds of CO₂ per gross MWh, which would require the application of partial carbon capture and storage (CCS) technology for a coal unit to be able to meet the limit. Utility-scale CCS is not currently a demonstrated and commercially available technology for coal-fired EGUs, and therefore the final standard effectively prevents the development of new coal-fired generation. EPA set a final standard of 1,000 pounds of CO₂ per gross MWh for new natural gas combined-cycle units.

On March 28, 2017, President Trump signed an executive order directing EPA to review the rule and determine whether to suspend, revise or rescind it. On the same day, the Department of Justice (DOJ) filed a motion with the D.C. Circuit Court requesting that the court stay the litigation of the rule while it is reviewed by EPA. Subsequent to the DOJ motion, the D.C. Circuit Court canceled oral argument in the case. On August 10, 2017, the court ordered that the litigation be suspended indefinitely. The rule remains in effect pending the outcome of litigation and EPA's review. EPA has not announced a schedule for completing its review. The Duke Energy Registrants cannot predict the outcome of these matters, but do not expect the impacts of the current final standards will be material to Duke Energy's financial position, results of operations or cash flows.

Clean Power Plan

On October 23, 2015, EPA published in the Federal Register the final Clean Power Plan (CPP) rule that regulates CO₂ emissions from existing fossil fuel-fired EGUs. The CPP established CO₂ emission rates and mass cap goals that apply to existing fossil fuel-fired EGUs. Petitions challenging the rule were filed by several groups and on February 9, 2016, the Supreme Court issued a stay of the final CPP rule, halting implementation of the rule until legal challenges are resolved. States in which the Duke Energy Registrants operate have suspended work on the CPP in response to the stay. Oral arguments before 10 of the 11 judges on D.C. Circuit Court were heard on September 27, 2016. The court has not issued its opinion in the case.

On March 28, 2017, President Trump signed an executive order directing EPA to review the CPP and determine whether to suspend, revise or rescind the rule. On the same day, the DOJ filed a motion with the D.C. Circuit Court

requesting that the court stay the litigation of the rule while it is reviewed by EPA. On April 28, 2017, the court issued an order to suspend the litigation for 60 days. On August 8, 2017, the court, on its own motion, extended the suspension of the litigation for an additional 60 days. On October 16, 2017, EPA issued a Notice of Proposed Rulemaking (NPR) to repeal the CPP based on a change to EPA's legal interpretation of the section of the Clean Air Act (CAA) on which the CPP was based. In the proposal, EPA indicates that it has not determined whether it will issue a rule to replace the CPP, and if it will do so, when and what form that rule will take. The comment period on EPA's NPR ends April 26, 2018. On December 28, 2017, EPA issued an Advance Notice of Proposed Rulemaking (ANPRM) in which it seeks public comment on various aspects of a potential CPP replacement rule. The comment period on the ANPRM ends February 26, 2018. If EPA decides to move forward with a CPP replacement rule, it will need to issue a formal proposal for public comment. Litigation of the CPP remains on hold in the D.C. Circuit Court and the February 2016 U.S. Supreme Court stay of the CPP remains in effect. The Duke Energy Registrants cannot predict the outcome of these matters.

Global Climate Change

The Duke Energy Registrants' greenhouse gas (GHG) emissions consist primarily of CO₂ and result primarily from operating a fleet of coal-fired and natural gas-fired power plants. In 2017, the Duke Energy Registrants' power plants emitted approximately 105 million tons of CO₂. Future levels of CO₂ emissions will be influenced by variables that include fuel prices, compliance with new or existing regulations, economic conditions that affect electricity demand and the technologies deployed to generate the electricity necessary to meet the customer demand.

The Duke Energy Registrants have taken actions that have resulted in a reduction of CO₂ emissions over time. Actions have included the retirement of 47 coal-fired EGUs with a combined generating capacity of 5,425 MW. Much of that capacity has been replaced with state-of-the-art highly efficient natural gas-fired generation that produces far fewer CO₂ emissions per unit of electricity generated. Duke Energy also has made investments to expand its portfolio of wind and solar projects, increase energy efficiency offerings and invest in its zero-CO₂ emissions hydropower and nuclear plants. These efforts have diversified its system and significantly reduced CO₂ emissions. Between 2005 and 2017, the Duke Energy Registrants have collectively lowered the CO₂ emissions from their electricity generation by more than 31 percent, which lowers the exposure to any future mandatory CO₂ emission reduction requirements or carbon tax, whether as a result of federal legislation, EPA regulation, state regulation or other as yet unknown emission reduction requirement. Duke Energy will continue to explore the use of currently-available and commercially-demonstrated technology to reduce CO₂ emissions, including energy efficiency, wind, solar, storage, nuclear and carbon sequestration. Duke Energy will adjust to evolving and innovative technologies in a way that balances the reliability and affordability that customers expect. Under any future scenario involving mandatory CO₂ limitations, the Duke Energy Registrants would plan to seek recovery of their compliance costs through appropriate regulatory mechanisms.

The Duke Energy Registrants recognize certain groups associate severe weather events with increasing levels of GHGs in the atmosphere and forecast the possibility these weather events could have a material impact on future results of operations should they occur more frequently and with greater severity. However, the uncertain nature of potential changes in extreme weather events (such as increased frequency, duration and severity), the long period of time over which any potential changes might take place and the inability to predict potential changes with any degree of accuracy, make estimating any potential future financial risk to the Duke Energy Registrants' operations impossible. The Duke Energy Registrants have historically planned and prepared for extreme weather events, such as ice storms, tornadoes, hurricanes, severe thunderstorms, high winds and droughts they occasionally experience.

The Duke Energy Registrants annually, biannually or triennially prepare lengthy, forward-looking "integrated resource plans" (IRPs). These detailed, highly technical plans are based on the company's thorough analysis of

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numerous factors that can impact the cost of producing and delivering electricity that influence long-term resource planning decisions. The IRP process helps to evaluate a range of options, taking into account forecasts of future electricity demand, fuel prices, transmission improvements, new generating capacity, integration of renewables, energy storage, energy efficiency and demand response initiatives. The IRP process also helps evaluate potential environmental and regulatory scenarios to better mitigate policy and economic risks. The IRPs we file with regulators look out 10 to 20 years depending on the jurisdiction.

For a number of years, the Duke Energy Registrants have included a price on CO₂ emissions in their IRP planning process to account for the potential regulation of CO₂ emissions. Incorporating a price on CO₂ emissions in the IRP allows for the evaluation of existing and future resource needs against potential climate change policy risk in the absence of policy certainty. One of the challenges with using a CO₂ price, especially in the absence of a clear and certain policy, is determining the appropriate price to use. To address this uncertainty and ensure the company remains agile, the Duke Energy Registrants typically use a range of potential CO₂ prices to reflect a range of potential policy outcomes.

The Duke Energy Registrants routinely take steps to reduce the potential impact of severe weather events on their electric distribution systems. The Duke Energy Registrants' electric generating facilities are designed to withstand extreme weather events without significant damage. The Duke Energy Registrants maintain an inventory of coal and oil on-site to mitigate the effects of any potential short-term disruption in fuel supply so they can continue to provide customers with an uninterrupted supply of electricity.

North Carolina Legislation

In July 2017, the North Carolina General Assembly passed House Bill 589 and it was subsequently enacted into law by the governor. The law includes, among other things, overall reform of the application of Public Utility Regulatory Policies Act of 1978 (PURPA) for new solar projects in the state, a requirement for the utility to procure approximately 2,600 MW of renewable energy through a competitive bidding process and recovery of costs related to the competitive bidding process through the fuel clause and a competitive procurement rider.

The law stipulated certain deadlines for Duke Energy to file for NCUC approval of programs required under the law. Duke Energy has made some regulatory filings since the passage of the law and will continue to implement the requirements of House Bill 589.

Nuclear Matters

Following the events at the Fukushima Daiichi nuclear power station in Japan, in March 2011, the NRC formed a task force to conduct a comprehensive review of processes and regulations to determine whether the agency should make additional improvements to the nuclear regulatory system. Subsequently, the NRC targeted a set of improvements designed to enhance accident mitigation, strengthen emergency preparedness and improve efficiency of NRC programs. Pursuant to the findings of the task force, in March 2012, the NRC issued three regulatory orders requiring safety enhancements related to mitigation strategies to respond to extreme natural events resulting in the loss of power at a plant, ensuring reliable hardened containment vents and enhancing spent fuel pool instrumentation. Duke Energy is committed to compliance with all safety enhancements ordered by the NRC and has completed actions on two of the three NRC orders, as required. The remaining order is focused only on enhancements to boiling water reactor designs which, for Duke Energy, is unique to Brunswick Steam Electric Plant. Actions associated with this third order will be completed by March 2019. With the NRC's continuing review of this matter, Duke Energy cannot predict to what extent the NRC will impose additional licensing and safety-related requirements or the costs of complying with such requirements. Upon receipt of additional guidance from the NRC and a collaborative industry review, Duke Energy will be able to determine an implementation plan and associated costs. See Item 1A, "Risk Factors," for further discussion of applicable risk factors.

New Accounting Standards

See Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," for a discussion of the impact of new accounting standards.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

See "Management's Discussion and Analysis of Results of Operations and Financial Condition – Quantitative and Qualitative Disclosures About Market Risk."

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ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of
Duke Energy Corporation

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations, comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2017, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 21, 2018, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina

February 21, 2018

We have served as the Company's auditor since 1947.

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF OPERATIONS

(in millions, except per share amounts)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues			
Regulated electric	\$21,177	\$21,221	\$21,379
Regulated natural gas	1,734	863	536
Nonregulated electric and other	654	659	456
Total operating revenues	23,565	22,743	22,371
Operating Expenses			
Fuel used in electric generation and purchased power	6,350	6,625	7,355
Cost of natural gas	632	265	141
Operation, maintenance and other	5,788	6,085	5,539
Depreciation and amortization	3,527	3,294	3,053
Property and other taxes	1,233	1,142	1,129
Impairment charges	282	18	106
Total operating expenses	17,812	17,429	17,323
Gains on Sales of Other Assets and Other, net	28	27	30
Operating Income	5,781	5,341	5,078
Other Income and Expenses			
Equity in earnings (losses) of unconsolidated affiliates	119	(15)	69
Other income and expenses, net	352	324	290
Total other income and expenses	471	309	359
Interest Expense	1,986	1,916	1,527
Income From Continuing Operations Before Income Taxes	4,266	3,734	3,910
Income Tax Expense From Continuing Operations	1,196	1,156	1,256
Income From Continuing Operations	3,070	2,578	2,654
(Loss) Income From Discontinued Operations, net of tax	(6)	(408)	177
Net Income	3,064	2,170	2,831
Less: Net Income Attributable to Noncontrolling Interests	5	18	15
Net Income Attributable to Duke Energy Corporation	\$ 3,059	\$ 2,152	\$ 2,816
Earnings Per Share – Basic and Diluted			
Income from continuing operations attributable to Duke Energy Corporation common stockholders			
Basic	\$ 4.37	\$ 3.71	\$ 3.80
Diluted	\$ 4.37	\$ 3.71	\$ 3.80
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders			
Basic	\$ (0.01)	\$ (0.60)	\$ 0.25
Diluted	\$ (0.01)	\$ (0.60)	\$ 0.25
Net income attributable to Duke Energy Corporation common stockholders			
Basic	\$ 4.36	\$ 3.11	\$ 4.05
Diluted	\$ 4.36	\$ 3.11	\$ 4.05
Weighted average shares outstanding			
Basic	700	691	694
Diluted	700	691	694

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Net Income	\$ 3,064	\$2,170	\$2,831
Other Comprehensive Income (Loss), net of tax			
Foreign currency translation adjustments	—	694	(264)
Pension and OPEB adjustments	3	(11)	(13)
Net unrealized gains on cash flow hedges	2	17	—
Reclassification into earnings from cash flow hedges	8	13	9
Unrealized gains (losses) on available-for-sale securities	13	2	(6)
Other Comprehensive Income (Loss), net of tax	26	715	(274)
Comprehensive Income	3,090	2,885	2,557
Less: Comprehensive Income Attributable to Noncontrolling Interests	5	20	4
Comprehensive Income Attributable to Duke Energy Corporation	\$ 3,085	\$2,865	\$2,553

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION
CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 358	\$ 392
Receivables (net of allowance for doubtful accounts of \$14 at 2017 and 2016)	779	751
Receivables of VIEs (net of allowance for doubtful accounts of \$54 at 2017 and 2016)	1,995	1,893
Inventory	3,250	3,522
Regulatory assets (includes \$51 at 2017 and \$50 at 2016 related to VIEs)	1,437	1,023
Other	634	458
Total current assets	8,453	8,039
Property, Plant and Equipment		
Cost	127,507	121,397
Accumulated depreciation and amortization	(41,537)	(39,406)
Generation facilities to be retired, net	421	529
Net property, plant and equipment	86,391	82,520
Other Noncurrent Assets		
Goodwill	19,396	19,425
Regulatory assets (includes \$1,091 at 2017 and \$1,142 at 2016 related to VIEs)	12,442	12,878
Nuclear decommissioning trust funds	7,097	6,205
Investments in equity method unconsolidated affiliates	1,175	925
Other	2,960	2,769
Total other noncurrent assets	43,070	42,202
Total Assets	\$137,914	\$132,761

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED BALANCE SHEETS – (Continued)

(in millions)	December 31,	
	2017	2016
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 3,043	\$ 2,994
Notes payable and commercial paper	2,163	2,487
Taxes accrued	551	384
Interest accrued	525	503
Current maturities of long-term debt (includes \$225 at 2017 and \$260 at 2016 related to VIEs)	3,244	2,319
Asset retirement obligations	689	411
Regulatory liabilities	402	409
Other	1,865	2,044
Total current liabilities	12,482	11,551
Long-Term Debt (includes \$4,306 at 2017 and \$3,587 at 2016 related to VIEs)	49,035	45,576
Other Noncurrent Liabilities		
Deferred income taxes	6,621	14,155
Asset retirement obligations	9,486	10,200
Regulatory liabilities	15,330	6,881
Accrued pension and other post-retirement benefit costs	1,103	1,111
Investment tax credits	539	493
Other	1,581	1,753
Total other noncurrent liabilities	34,660	34,593
Commitments and Contingencies		
Equity		
Common stock, \$0.001 par value, 2 billion shares authorized; 700 million shares outstanding at 2017 and 2016	1	1
Additional paid-in capital	38,792	38,741
Retained earnings	3,013	2,384
Accumulated other comprehensive loss	(67)	(93)
Total Duke Energy Corporation stockholders' equity	41,739	41,033
Noncontrolling interests	(2)	8
Total equity	41,737	41,041
Total Liabilities and Equity	\$137,914	\$132,761

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 3,064	\$ 2,170	\$ 2,831
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	4,046	3,880	3,613
Equity component of AFUDC	(237)	(200)	(164)
(Gains) Losses on sales of other assets	(33)	477	(48)
Impairment charges	282	212	153
Deferred income taxes	1,433	900	1,244
Equity in (earnings) losses of unconsolidated affiliates	(119)	15	(69)
Accrued pension and other post-retirement benefit costs	8	21	71
Contributions to qualified pension plans	(19)	(155)	(302)
Payments for asset retirement obligations	(571)	(608)	(346)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	18	34	(29)
Receivables	(83)	(372)	383
Inventory	268	272	(237)
Other current assets	(388)	(220)	(65)
Increase (decrease) in			
Accounts payable	(204)	296	(6)
Taxes accrued	149	236	(38)
Other current liabilities	(482)	182	168
Other assets	(438)	(186)	(216)
Other liabilities	(60)	(137)	(243)
Net cash provided by operating activities	6,634	6,817	6,700
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(8,052)	(7,901)	(6,766)
Contributions to equity method investments	(414)	(307)	(263)
Acquisitions, net of cash acquired	(13)	(4,778)	(1,334)
Return of investment capital	281	1	3
Purchases of available-for-sale securities	(4,071)	(5,153)	(4,037)
Proceeds from sales and maturities of available-for-sale securities	4,098	5,236	4,040
Proceeds from the sales of discontinued operations and other assets, net of cash divested	—	1,418	2,968
Change in restricted cash	(10)	(4)	191
Other	(269)	(45)	(79)
Net cash used in investing activities	(8,450)	(11,533)	(5,277)

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS -- (Continued)

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the:			
Issuance of long-term debt	\$ 6,909	\$ 9,238	\$ 2,955
Issuance of common stock	—	731	17
Payments for the redemption of long-term debt	(2,316)	(1,923)	(3,029)
Proceeds from the issuance of short-term debt with original maturities greater than 90 days	319	2,081	379
Payments for the redemption of short-term debt with original maturities greater than 90 days	(272)	(2,166)	(931)
Notes payable and commercial paper	(409)	(1,362)	1,797
Dividends paid	(2,450)	(2,332)	(2,254)
Repurchase of common shares	—	—	(1,500)
Other	1	(16)	(36)
Net cash provided by (used in) financing activities	1,782	4,251	(2,602)
Changes in cash and cash equivalents included in assets held for sale	—	474	1,099
Net (decrease) increase in cash and cash equivalents	(34)	9	(80)
Cash and cash equivalents at beginning of period	392	383	463
Cash and cash equivalents at end of period	\$ 358	\$ 392	\$ 383
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 1,963	\$ 1,794	\$ 1,607
Cash paid for income taxes	4	229	170
Significant non-cash transactions:			
Accrued capital expenditures	1,032	1,000	771

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Duke Energy Corporation Stockholders' Accumulated Other Comprehensive Loss										
	Common Stock Shares	Common Stock	Additional Paid-in Capital	Retained Earnings	Foreign Currency Translation Adjustments	Net Losses on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available- for-Sale- Securities	Pension and OPEB Adjustments	Total Duke Energy Corporation Stockholders' Equity	Noncontrolling Interests	Total Equity
Balance at December 31, 2014	707	\$ 1	\$ 39,405	\$ 2,012	\$ (439)	\$ (59)	\$ 3	\$ (48)	\$ 40,875	\$ 24	\$ 40,899
Net income	—	—	—	2,816	—	—	—	—	2,816	15	2,831
Other comprehensive (loss) income	—	—	—	—	(253)	9	(6)	(13)	(263)	(11)	(274)
Common stock issuances, including dividend reinvestment and employee benefits	1	—	63	—	—	—	—	—	63	—	63
Stock repurchase	(20)	—	(1,500)	—	—	—	—	—	(1,500)	—	(1,500)
Common stock dividends	—	—	—	(2,254)	—	—	—	—	(2,254)	—	(2,254)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(9)	(9)
Other ^(a)	—	—	—	(10)	—	—	—	—	(10)	25	15
Balance at December 31, 2015	688	\$ 1	\$ 37,968	\$ 2,564	\$ (692)	\$ (50)	\$ (3)	\$ (61)	\$ 39,727	\$ 44	\$ 39,771
Net income	—	—	—	2,152	—	—	—	—	2,152	18	2,170
Other comprehensive (loss) income ^(b)	—	—	—	—	692	30	2	(11)	713	2	715
Common stock issuances, including dividend reinvestment and employee benefits	12	—	773	—	—	—	—	—	773	—	773
Common stock dividends	—	—	—	(2,332)	—	—	—	—	(2,332)	—	(2,332)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(6)	(6)
Other ^(c)	—	—	—	—	—	—	—	—	—	(50)	(50)
Balance at December 31, 2016	700	\$ 1	\$ 38,741	\$ 2,384	\$ —	\$ (20)	\$ (1)	\$ (72)	\$ 41,033	\$ 8	\$ 41,041
Net income	—	—	—	3,059	—	—	—	—	3,059	5	3,064
Other comprehensive income (loss)	—	—	—	—	—	10	13	3	26	—	26
Common stock issuances, including dividend reinvestment and employee benefits	—	—	51	—	—	—	—	—	51	—	51
Common stock dividends	—	—	—	(2,450)	—	—	—	—	(2,450)	—	(2,450)
Distributions to noncontrolling interests in subsidiaries	—	—	—	—	—	—	—	—	—	(2)	(2)
Other ^(d)	—	—	—	20	—	—	—	—	20	(13)	7
Balance at December 31, 2017	700	\$ 1	\$ 38,792	\$ 3,013	\$ —	\$ (10)	\$ 12	\$ (69)	\$ 41,739	\$ (2)	\$ 41,737

- (a) Noncontrolling Interests amount is primarily related to the acquisitions of a majority interest in a provider of energy management systems and services for commercial customers and a solar company.
- (b) Foreign Currency Translation Adjustments amount includes \$620 million of cumulative adjustment realized as a result of the sale of the Latin American generation business. See Note 2 to the Consolidated Financial Statements.
- (c) Noncontrolling Interests amount is primarily related to the sale of the Latin American generation business. See Note 2 to the Consolidated Financial Statements.
- (d) Retained Earnings relates to a cumulative-effect adjustment due to implementation of a new accounting standard related to stock-based compensation and the associated income taxes. See Note 1 to the Consolidated Financial Statements for additional information. Noncontrolling Interests relates to the purchase of remaining interest in REC Solar.

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Carolinas, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Carolinas, LLC and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 1947.

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues	\$ 7,302	\$ 7,322	\$ 7,229
Operating Expenses			
Fuel used in electric generation and purchased power	1,822	1,797	1,881
Operation, maintenance and other	1,961	2,106	2,066
Depreciation and amortization	1,090	1,075	1,051
Property and other taxes	281	276	269
Impairment charges	—	1	1
Total operating expenses	5,154	5,255	5,268
Gain (Loss) on Sales of Other Assets and Other, net	1	(5)	(1)
Operating Income	2,149	2,062	1,960
Other Income and Expenses, net	139	162	160
Interest Expense	422	424	412
Income Before Income Taxes	1,866	1,800	1,708
Income Tax Expense	652	634	627
Net Income	\$ 1,214	\$ 1,166	\$ 1,081
Other Comprehensive Income, net of tax			
Reclassification into earnings from cash flow hedges	2	2	1
Unrealized gains on available-for-sale securities	—	—	1
Other Comprehensive Income, net of tax	2	2	2
Comprehensive Income	\$ 1,216	\$ 1,168	\$ 1,083

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 16	\$ 14
Receivables (net of allowance for doubtful accounts of \$2 at 2017 and 2016)	200	160
Receivables of VIEs (net of allowance for doubtful accounts of \$7 at 2017 and 2016)	640	645
Receivables from affiliated companies	95	163
Notes receivable from affiliated companies	—	66
Inventory	971	1,055
Regulatory assets	299	238
Other	19	37
Total current assets	2,240	2,378
Property, Plant and Equipment		
Cost	42,939	41,127
Accumulated depreciation and amortization	(15,063)	(14,365)
Net property, plant and equipment	27,876	26,762
Other Noncurrent Assets		
Regulatory assets	2,853	3,159
Nuclear decommissioning trust funds	3,772	3,273
Other	979	943
Total other noncurrent assets	7,604	7,375
Total Assets	\$ 37,720	\$ 36,515
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 842	\$ 833
Accounts payable to affiliated companies	209	247
Notes payable to affiliated companies	104	—
Taxes accrued	234	143
Interest accrued	108	102
Current maturities of long-term debt	1,205	116
Asset retirement obligations	337	222
Regulatory liabilities	126	161
Other	486	468
Total current liabilities	3,651	2,292
Long-Term Debt	8,598	9,187
Long-Term Debt Payable to Affiliated Companies	300	300
Other Noncurrent Liabilities		
Deferred income taxes	3,413	6,544
Asset retirement obligations	3,273	3,673
Regulatory liabilities	6,231	2,840
Accrued pension and other post-retirement benefit costs	95	97
Investment tax credits	232	203
Other	566	607
Total other noncurrent liabilities	13,810	13,964
Commitments and Contingencies		
Equity		
Member's equity	11,368	10,781
Accumulated other comprehensive loss	(7)	(9)
Total equity	11,361	10,772
Total Liabilities and Equity	\$ 37,720	\$ 36,515

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,214	\$ 1,166	\$ 1,081
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,409	1,382	1,361
Equity component of AFUDC	(106)	(102)	(96)
(Gains) Losses on sales of other assets	(1)	5	1
Impairment charges	—	1	1
Deferred income taxes	410	470	397
Accrued pension and other post-retirement benefit costs	(4)	4	15
Contributions to qualified pension plans	—	(43)	(91)
Payments for asset retirement obligations	(271)	(287)	(167)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	9	5	—
Receivables	(9)	(76)	42
Receivables from affiliated companies	68	(56)	(32)
Inventory	78	215	(157)
Other current assets	7	67	(51)
Increase (decrease) in			
Accounts payable	23	(69)	(4)
Accounts payable to affiliated companies	(38)	18	75
Taxes accrued	86	187	(128)
Other current liabilities	(161)	63	127
Other assets	(49)	20	76
Other liabilities	(31)	6	(77)
Net cash provided by operating activities	2,634	2,976	2,373
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,524)	(2,220)	(1,933)
Purchases of available-for-sale securities	(2,124)	(2,832)	(2,555)
Proceeds from sales and maturities of available-for-sale securities	2,128	2,832	2,555
Notes receivable from affiliated companies	66	97	(13)
Other	(109)	(83)	(35)
Net cash used in investing activities	(2,563)	(2,206)	(1,981)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	569	1,587	516
Payments for the redemption of long-term debt	(116)	(356)	(506)
Notes payable to affiliated companies	104	—	—
Distributions to parent	(625)	(2,000)	(401)
Other	(1)	—	(1)
Net cash used in financing activities	(69)	(769)	(392)
Net increase in cash and cash equivalents	2	1	—
Cash and cash equivalents at beginning of period	14	13	13
Cash and cash equivalents at end of period	\$ 16	\$ 14	\$ 13
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 398	\$ 393	\$ 389
Cash paid for (received from) income taxes	193	(60)	342
Significant non-cash transactions:			
Accrued capital expenditures	315	347	239

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity	Accumulated Other Comprehensive Loss		Total Equity
		Net Losses on Cash Flow Hedges	Net Losses Available- for-Sale Securities	
Balance at December 31, 2014	\$10,937	\$ (12)	\$ (1)	\$10,924
Net income	1,081	—	—	1,081
Other comprehensive income	—	1	1	2
Distributions to parent	(401)	—	—	(401)
Balance at December 31, 2015	\$11,617	\$ (11)	\$ —	\$11,606
Net income	1,166	—	—	1,166
Other comprehensive income	—	2	—	2
Distributions to parent	(2,000)	—	—	(2,000)
Other	(2)	—	—	(2)
Balance at December 31, 2016	\$10,781	\$ (9)	\$ —	\$10,772
Net income	1,214	—	—	1,214
Other comprehensive income	—	2	—	2
Distributions to parent	(625)	—	—	(625)
Other	(2)	—	—	(2)
Balance at December 31, 2017	\$11,368	\$ (7)	\$ —	\$11,361

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Progress Energy, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Progress Energy, Inc. and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 1930.

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues	\$ 9,783	\$ 9,853	\$10,277
Operating Expenses			
Fuel used in electric generation and purchased power	3,417	3,644	4,224
Operation, maintenance and other	2,220	2,386	2,298
Depreciation and amortization	1,285	1,213	1,116
Property and other taxes	503	487	492
Impairment charges	156	7	12
Total operating expenses	7,581	7,737	8,142
Gains on Sales of Other Assets and Other, net	26	25	25
Operating Income	2,228	2,141	2,160
Other Income and Expenses, net	128	114	97
Interest Expense	824	689	670
Income From Continuing Operations Before Income Taxes	1,532	1,566	1,587
Income Tax Expense From Continuing Operations	264	527	522
Income From Continuing Operations	1,268	1,039	1,065
Income (Loss) From Discontinued Operations, net of tax	—	2	(3)
Net Income	1,268	1,041	1,062
Less: Net Income Attributable to Noncontrolling Interests	10	10	11
Net Income Attributable to Parent	\$ 1,258	\$ 1,031	\$ 1,051
Net Income	\$ 1,268	\$ 1,041	\$ 1,062
Other Comprehensive Income (Loss), net of tax			
Pension and OPEB adjustments	4	1	(10)
Net unrealized gain on cash flow hedges	5	—	—
Reclassification into earnings from cash flow hedges	—	8	4
Unrealized gains (losses) on available-for-sale securities	4	1	(1)
Other Comprehensive Income (Loss), net of tax	13	10	(7)
Comprehensive Income	1,281	1,051	1,055
Less: Comprehensive Income Attributable to Noncontrolling Interests	10	10	11
Comprehensive Income Attributable to Parent	\$ 1,271	\$ 1,041	\$ 1,044

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 40	\$ 46
Receivables (net of allowance for doubtful accounts of \$4 at 2017 and \$6 at 2016)	123	114
Receivables of VIEs (net of allowance for doubtful accounts of \$7 at 2017 and 2016)	780	692
Receivables from affiliated companies	31	106
Notes receivable from affiliated companies	240	80
Inventory	1,592	1,717
Regulatory assets (includes \$51 at 2017 and \$50 at 2016 related to VIEs)	741	401
Other	334	148
Total current assets	3,881	3,304
Property, Plant and Equipment		
Cost	47,323	44,864
Accumulated depreciation and amortization	(15,857)	(15,212)
Generation facilities to be retired, net	421	529
Net property, plant and equipment	31,887	30,181
Other Noncurrent Assets		
Goodwill	3,655	3,655
Regulatory assets (includes \$1,091 at 2017 and \$1,142 at 2016 related to VIEs)	6,010	5,722
Nuclear decommissioning trust funds	3,324	2,932
Other	931	856
Total other noncurrent assets	13,920	13,165
Total Assets	\$ 49,688	\$ 46,650

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED BALANCE SHEETS -- (Continued)

(in millions)	December 31,	
	2017	2016
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 1,006	\$ 1,003
Accounts payable to affiliated companies	251	348
Notes payable to affiliated companies	805	729
Taxes accrued	101	83
Interest accrued	212	201
Current maturities of long-term debt (includes \$53 at 2017 and \$62 at 2016 related to VIEs)	771	778
Asset retirement obligations	295	189
Regulatory liabilities	213	189
Other	729	745
Total current liabilities	4,383	4,265
Long-Term Debt (includes \$1,689 at 2017 and \$1,741 at 2016 related to VIEs)	16,916	15,590
Long-Term Debt Payable to Affiliated Companies	150	1,173
Other Noncurrent Liabilities		
Deferred income taxes	3,502	5,246
Asset retirement obligations	5,119	5,286
Regulatory liabilities	5,306	2,395
Accrued pension and other post-retirement benefit costs	545	547
Other	302	341
Total other noncurrent liabilities	14,774	13,815
Commitments and Contingencies		
Equity		
Common stock, \$0.01 par value, 100 shares authorized and outstanding at 2017 and 2016	—	—
Additional paid-in capital	9,143	8,094
Retained earnings	4,350	3,764
Accumulated other comprehensive loss	(25)	(38)
Total Progress Energy, Inc. stockholder's equity	13,468	11,820
Noncontrolling interests	(3)	(13)
Total equity	13,465	11,807
Total Liabilities and Equity	\$ 49,688	\$ 46,650

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,268	\$ 1,041	\$ 1,062
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	1,516	1,435	1,312
Equity component of AFUDC	(92)	(76)	(54)
Gains on sales of other assets	(28)	(34)	(31)
Impairment charges	156	7	12
Deferred income taxes	703	532	714
Accrued pension and other post-retirement benefit costs	(28)	(24)	(5)
Contributions to qualified pension plans	—	(43)	(83)
Payments for asset retirement obligations	(248)	(270)	(156)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	—	42	(6)
Receivables	(89)	7	105
Receivables from affiliated companies	71	211	(316)
Inventory	125	35	(67)
Other current assets	(384)	3	553
Increase (decrease) in			
Accounts payable	(260)	252	(193)
Accounts payable to affiliated companies	(97)	37	108
Taxes accrued	17	15	(63)
Other current liabilities	(166)	(42)	136
Other assets	(301)	(248)	(167)
Other liabilities	(98)	(36)	(112)
<hr/>			
Net cash provided by operating activities	2,065	2,844	2,749
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(3,152)	(3,306)	(2,698)
Asset Acquisitions	—	(10)	(1,249)
Purchases of available-for-sale securities	(1,806)	(2,143)	(1,174)
Proceeds from sales and maturities of available-for-sale securities	1,824	2,187	1,211
Proceeds from insurance	7	58	—
Proceeds from the sale of nuclear fuel	20	20	102
Notes receivable from affiliated companies	(160)	(80)	220
Change in restricted cash	5	(6)	—
Other	(86)	47	(34)
<hr/>			
Net cash used in investing activities	(3,348)	(3,233)	(3,622)

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS -- (Continued)

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	\$ 2,118	\$ 2,375	\$ 1,186
Payments for the redemption of long-term debt	(813)	(327)	(1,553)
Notes payable to affiliated companies	100	444	623
Capital contribution from parent	—	—	625
Dividends to parent	(124)	(2,098)	—
Other	(4)	(3)	(6)
Net cash provided by financing activities	1,277	391	875
Net (decrease) increase in cash and cash equivalents	(6)	2	2
Cash and cash equivalents at beginning of period	46	44	42
Cash and cash equivalents at end of period	\$ 40	\$ 46	\$ 44
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 773	\$ 673	\$ 649
Cash (received from) paid for income taxes	(146)	(187)	(426)
Significant non-cash transactions:			
Accrued capital expenditures	391	317	329
Equitization of certain notes payable to affiliates	1,047	—	—
Dividend to parent related to a legal entity restructuring	547	—	—

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Accumulated Other Comprehensive Loss						Total Progress Energy, Inc. Stockholder's Equity	Noncontrolling Interests	Total Equity
	Additional Paid-in Capital	Retained Earnings	Net Losses on Cash Flow Hedges	Net Unrealized Gains on Available-for-Sale Securities	Pension and OPEB Adjustments				
Balance at December 31, 2014	\$ 7,467	\$ 3,782	\$ (35)	\$ 1	\$ (7)	\$ 11,208	\$ (32)	\$ 11,176	
Net income	—	1,051	—	—	—	1,051	11	1,062	
Other comprehensive income (loss)	—	—	4	(1)	(10)	(7)	—	(7)	
Distributions to noncontrolling interests	—	—	—	—	—	—	(4)	(4)	
Capital contribution from parent	625	—	—	—	—	625	—	625	
Other	—	(2)	—	—	—	(2)	3	1	
Balance at December 31, 2015	\$ 8,092	\$ 4,831	\$ (31)	\$ —	\$ (17)	\$ 12,875	\$ (22)	\$ 12,853	
Net income	—	1,031	—	—	—	1,031	10	1,041	
Other comprehensive income	—	—	8	1	1	10	—	10	
Distributions to noncontrolling interests	—	—	—	—	—	—	(1)	(1)	
Dividends to parent	—	(2,098)	—	—	—	(2,098)	—	(2,098)	
Other	2	—	—	—	—	2	—	2	
Balance at December 31, 2016	\$ 8,094	\$ 3,764	\$ (23)	\$ 1	\$ (16)	\$ 11,820	\$ (13)	\$ 11,807	
Net income	—	1,258	—	—	—	1,258	10	1,268	
Other comprehensive income	—	—	5	4	4	13	—	13	
Dividends to parent ^(a)	—	(672)	—	—	—	(672)	—	(672)	
Equitization of certain notes payable to affiliates	1,047	—	—	—	—	1,047	—	1,047	
Other	2	—	—	—	—	2	—	2	
Balance at December 31, 2017	\$ 9,143	\$ 4,350	\$ (18)	\$ 5	\$ (12)	\$ 13,468	\$ (3)	\$ 13,465	

(a) Includes a \$547 million non-cash dividend related to a legal entity restructuring.

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Progress, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Progress, LLC and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 1930.

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues	\$5,129	\$5,277	\$5,290
Operating Expenses			
Fuel used in electric generation and purchased power	1,609	1,830	2,029
Operation, maintenance and other	1,389	1,504	1,452
Depreciation and amortization	725	703	643
Property and other taxes	156	156	140
Impairment charges	19	1	5
Total operating expenses	3,898	4,194	4,269
Gains on Sales of Other Assets and Other, net	4	3	3
Operating Income	1,235	1,086	1,024
Other Income and Expenses, net	65	71	71
Interest Expense	293	257	235
Income Before Income Taxes	1,007	900	860
Income Tax Expense	292	301	294
Net Income and Comprehensive Income	\$ 715	\$ 599	\$ 566

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 20	\$ 11
Receivables (net of allowance for doubtful accounts of \$1 at 2017 and \$4 at 2016)	56	51
Receivables of VIEs (net of allowance for doubtful accounts of \$5 at 2017 and 2016)	459	404
Receivables from affiliated companies	3	5
Notes receivable from affiliated companies	—	165
Inventory	1,017	1,076
Regulatory assets	352	188
Other	97	57
Total current assets	2,004	1,957
Property, Plant and Equipment		
Cost	29,583	28,419
Accumulated depreciation and amortization	(10,903)	(10,561)
Generation facilities to be retired, net	421	529
Net property, plant and equipment	19,101	18,387
Other Noncurrent Assets		
Regulatory assets	3,507	3,243
Nuclear decommissioning trust funds	2,588	2,217
Other	599	525
Total other noncurrent assets	6,694	5,985
Total Assets	\$ 27,799	\$ 26,329
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 402	\$ 589
Accounts payable to affiliated companies	179	227
Notes payable to affiliated companies	240	—
Taxes accrued	64	104
Interest accrued	102	102
Current maturities of long-term debt	3	452
Asset retirement obligations	295	189
Regulatory liabilities	139	158
Other	376	365
Total current liabilities	1,800	2,186
Long-Term Debt	7,204	6,409
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	1,883	3,323
Asset retirement obligations	4,378	4,508
Regulatory liabilities	3,999	1,946
Accrued pension and other post-retirement benefit costs	248	252
Investment tax credits	143	146
Other	45	51
Total other noncurrent liabilities	10,696	10,226
Commitments and Contingencies		
Equity		
Member's Equity	7,949	7,358
Total Liabilities and Equity	\$ 27,799	\$ 26,329

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 715	\$ 599	\$ 566
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	936	907	821
Equity component of AFUDC	(47)	(50)	(47)
Gains on sales of other assets	(5)	(6)	(7)
Impairment charges	19	1	5
Deferred income taxes	384	384	354
Accrued pension and other post-retirement benefit costs	(20)	(32)	(14)
Contributions to qualified pension plans	—	(24)	(42)
Payments for asset retirement obligations	(192)	(212)	(109)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(4)	4	(3)
Receivables	(58)	(17)	43
Receivables from affiliated companies	2	11	(6)
Inventory	59	12	(50)
Other current assets	(75)	84	185
Increase (decrease) in			
Accounts payable	(230)	181	(65)
Accounts payable to affiliated companies	(48)	37	70
Taxes accrued	(39)	90	(34)
Other current liabilities	(131)	114	76
Other assets	(53)	(163)	(83)
Other liabilities	(18)	12	(66)
Net cash provided by operating activities	1,195	1,932	1,594
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,715)	(1,733)	(1,669)
Asset acquisition	—	—	(1,249)
Purchases of available-for-sale securities	(1,249)	(1,658)	(727)
Proceeds from sales and maturities of available-for-sale securities	1,207	1,615	672
Proceeds from insurance	4	—	—
Notes receivable from affiliated companies	165	(165)	237
Other	(55)	26	(30)
Net cash used in investing activities	(1,643)	(1,915)	(2,766)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	812	505	1,186
Payments for the redemption of long-term debt	(470)	(15)	(991)
Notes payable to affiliated companies	240	(209)	359
Capital contribution from parent	—	—	626
Distributions to parent	(124)	(300)	—
Other	(1)	(2)	(2)
Net cash provided by (used in) financing activities	457	(21)	1,178
Net increase (decrease) in cash and cash equivalents	9	(4)	6
Cash and cash equivalents at beginning of period	11	15	9
Cash and cash equivalents at end of period	\$ 20	\$ 11	\$ 15
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 291	\$ 248	\$ 218
Cash paid for (received from) income taxes	59	(287)	(197)
Significant non-cash transactions:			
Accrued capital expenditures	191	147	143

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Retained Earnings	Member's Equity	Total Equity
Balance at December 31, 2014	\$ 2,159	\$ 3,708	\$ —	\$5,867
Net income	—	355	211	566
Transfer to Member's Equity	(2,159)	(4,063)	6,222	—
Capital contribution from parent	—	—	626	626
Balance at December 31, 2015	\$ —	\$ —	\$7,059	\$7,059
Net income	—	—	599	599
Distribution to parent	—	—	(300)	(300)
Balance at December 31, 2016	\$ —	\$ —	\$7,358	\$7,358
Net income	—	—	715	715
Distribution to parent	—	—	(124)	(124)
Balance at December 31, 2017	\$ —	\$ —	\$7,949	\$7,949

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Florida, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Florida, LLC and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 2001.

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues	\$ 4,646	\$ 4,568	\$ 4,977
Operating Expenses			
Fuel used in electric generation and purchased power	1,808	1,814	2,195
Operation, maintenance and other	818	865	835
Depreciation and amortization	560	509	473
Property and other taxes	347	333	352
Impairment charges	138	6	7
Total operating expenses	3,671	3,527	3,862
Gains on Sales of Other Assets and Other, net	1	—	—
Operating Income	976	1,041	1,115
Other Income and Expenses, net	61	44	24
Interest Expense	279	212	198
Income Before Income Taxes	758	873	941
Income Tax Expense	46	322	342
Net Income	\$ 712	\$ 551	\$ 599
Other Comprehensive Income, net of tax			
Unrealized gains on available-for-sale securities	3	1	—
Other Comprehensive Income, net of tax	3	1	—
Comprehensive Income	\$ 715	\$ 552	\$ 599

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 13	\$ 16
Receivables (net of allowance for doubtful accounts of \$3 at 2017 and \$2 at 2016)	65	61
Receivables of VIEs (net of allowance for doubtful accounts of \$2 at 2017 and 2016)	321	288
Receivables from affiliated companies	2	5
Notes receivable from affiliated companies	313	—
Inventory	574	641
Regulatory assets (includes \$51 at 2017 and \$50 at 2016 related to VIEs)	389	213
Other (includes \$40 at 2017 and \$53 at 2016 related to VIEs)	86	125
Total current assets	1,763	1,349
Property, Plant and Equipment		
Cost	17,730	16,434
Accumulated depreciation and amortization	(4,947)	(4,644)
Net property, plant and equipment	12,783	11,790
Other Noncurrent Assets		
Regulatory assets (includes \$1,091 at 2017 and \$1,142 at 2016 related to VIEs)	2,503	2,480
Nuclear decommissioning trust funds	736	715
Other	284	278
Total other noncurrent assets	3,523	3,473
Total Assets	\$ 18,069	\$ 16,612
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 602	\$ 413
Accounts payable to affiliated companies	74	125
Notes payable to affiliated companies	—	297
Taxes accrued	34	33
Interest accrued	56	49
Current maturities of long-term debt (includes \$53 at 2017 and \$62 at 2016 related to VIEs)	768	326
Regulatory liabilities	74	31
Other	334	352
Total current liabilities	1,942	1,626
Long-Term Debt (includes \$1,389 at 2017 and \$1,442 at 2016 related to VIEs)	6,327	5,799
Other Noncurrent Liabilities		
Deferred income taxes	1,761	2,694
Asset retirement obligations	742	778
Regulatory liabilities	1,307	448
Accrued pension and other post-retirement benefit costs	264	262
Other	108	105
Total other noncurrent liabilities	4,182	4,287
Commitments and Contingencies		
Equity		
Member's equity	5,614	4,899
Accumulated other comprehensive income	4	1
Total equity	5,618	4,900
Total Liabilities and Equity	\$ 18,069	\$ 16,612

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 712	\$ 551	\$ 599
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	570	516	480
Equity component of AFUDC	(45)	(26)	(7)
Gains on sales of other assets	(1)	—	—
Impairment charges	138	6	7
Deferred income taxes	245	224	348
Accrued pension and other post-retirement benefit costs	(13)	2	5
Contributions to qualified pension plans	—	(20)	(40)
Payments for asset retirement obligations	(56)	(58)	(47)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	5	38	(3)
Receivables	(38)	23	61
Receivables from affiliated companies	—	21	(44)
Inventory	66	23	(17)
Other current assets	(125)	(133)	116
Increase (decrease) in			
Accounts payable	(32)	71	(127)
Accounts payable to affiliated companies	(51)	9	46
Taxes accrued	1	(117)	67
Other current liabilities	(37)	(149)	57
Other assets	(229)	(84)	(84)
Other liabilities	(82)	(53)	(44)
Net cash provided by operating activities	1,028	844	1,373
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,437)	(1,583)	(1,029)
Purchases of available-for-sale securities	(557)	(485)	(447)
Proceeds from sales and maturities of available-for-sale securities	617	572	538
Proceeds from insurance	4	58	—
Proceeds from the sale of nuclear fuel	20	20	102
Notes receivable from affiliated companies	(313)	—	—
Change in restricted cash	—	(6)	—
Other	(31)	21	(3)
Net cash used in investing activities	(1,697)	(1,403)	(839)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,306	1,870	—
Payments for the redemption of long-term debt	(342)	(12)	(562)
Notes payable to affiliated companies	(297)	(516)	729
Dividends to parent	—	—	(350)
Distribution to parent	—	(775)	(350)
Other	(1)	—	(1)
Net cash provided by (used in) financing activities	666	567	(534)
Net (decrease) increase in cash and cash equivalents	(3)	8	—
Cash and cash equivalents at beginning of period	16	8	8
Cash and cash equivalents at end of period	\$ 13	\$ 16	\$ 8
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 274	\$ 208	\$ 205
Cash (received from) paid for income taxes	(197)	216	(229)
Significant non-cash transactions:			
Accrued capital expenditures	199	170	186

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Accumulated Other Comprehensive Income				
	Common Stock	Retained Earnings	Member's Equity	Net Unrealized Gains on Available-for-Sale Securities	Total Equity
Balance at December 31, 2014	\$ 1,762	\$ 3,460	\$ —	\$ —	\$ 5,222
Net income	—	351	248	—	599
Transfer to Member's Equity	(1,762)	(3,461)	5,223	—	—
Dividends to parent	—	(350)	—	—	(350)
Distribution to parent	—	—	(350)	—	(350)
Balance at December 31, 2015	\$ —	\$ —	\$ 5,121	\$ —	\$ 5,121
Net income	—	—	551	—	551
Other comprehensive income	—	—	—	1	1
Distribution to parent	—	—	(775)	—	(775)
Other	—	—	2	—	2
Balance at December 31, 2016	\$ —	\$ —	\$ 4,899	\$ 1	\$ 4,900
Net income	—	—	712	—	712
Other comprehensive income	—	—	—	3	3
Other	—	—	3	—	3
Balance at December 31, 2017	\$ —	\$ —	\$ 5,614	\$ 4	\$ 5,618

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Ohio, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Ohio, Inc. and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina

February 21, 2018

We have served as the Company's auditor since 2002.

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues			
Regulated electric	\$1,373	\$1,410	\$1,331
Nonregulated electric and other	42	31	33
Regulated natural gas	508	503	541
Total operating revenues	1,923	1,944	1,905
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	369	442	446
Fuel used in electric generation and purchased power – nonregulated	58	51	47
Cost of natural gas	107	103	141
Operation, maintenance and other	524	512	495
Depreciation and amortization	261	233	227
Property and other taxes	278	258	254
Impairment charges	1	—	—
Total operating expenses	1,598	1,599	1,610
Gains on Sales of Other Assets and Other, net	1	2	8
Operating Income	326	347	303
Other Income and Expenses, net	17	9	6
Interest Expense	91	86	79
Income From Continuing Operations Before Income Taxes	252	270	230
Income Tax Expense From Continuing Operations	59	78	81
Income From Continuing Operations	193	192	149
(Loss) Income From Discontinued Operations, net of tax	(1)	36	23
Net Income and Comprehensive Income	\$ 192	\$ 228	\$ 172

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 12	\$ 13
Receivables (net of allowance for doubtful accounts of \$3 at 2017 and \$2 at 2016)	68	71
Receivables from affiliated companies	133	129
Notes receivable from affiliated companies	14	94
Inventory	133	137
Regulatory assets	49	37
Other	39	37
Total current assets	448	518
Property, Plant and Equipment		
Cost	8,732	8,126
Accumulated depreciation and amortization	(2,691)	(2,579)
Net property, plant and equipment	6,041	5,547
Other Noncurrent Assets		
Goodwill	920	920
Regulatory assets	445	520
Other	21	23
Total other noncurrent assets	1,386	1,463
Total Assets	\$ 7,875	\$ 7,528
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 313	\$ 282
Accounts payable to affiliated companies	62	63
Notes payable to affiliated companies	29	16
Taxes accrued	190	178
Interest accrued	21	19
Current maturities of long-term debt	3	1
Asset retirement obligations	3	—
Regulatory liabilities	36	21
Other	71	91
Total current liabilities	728	671
Long-Term Debt	2,039	1,858
Long-Term Debt Payable to Affiliated Companies	25	25
Other Noncurrent Liabilities		
Deferred income taxes	781	1,443
Asset retirement obligations	81	77
Regulatory liabilities	891	236
Accrued pension and other post-retirement benefit costs	59	56
Other	108	166
Total other noncurrent liabilities	1,920	1,978
Commitments and Contingencies		
Equity		
Common stock, \$8.50 par value, 120 million shares authorized; 90 million shares outstanding at 2017 and 2016	762	762
Additional paid-in capital	2,670	2,695
Accumulated deficit	(269)	(461)
Total equity	3,163	2,996
Total Liabilities and Equity	\$ 7,875	\$ 7,528

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 192	\$ 228	\$ 172
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	265	237	230
Equity component of AFUDC	(11)	(6)	(3)
Gains on sales of other assets	(1)	(2)	(8)
Impairment charges	1	—	40
Deferred income taxes	90	55	206
Accrued pension and other post-retirement benefit costs	2	6	9
Contributions to qualified pension plans	(4)	(5)	(8)
Payments for asset retirement obligations	(7)	(5)	(4)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	—	(2)	(10)
Receivables	2	(4)	23
Receivables from affiliated companies	(4)	(36)	23
Inventory	6	(32)	—
Other current assets	(22)	79	—
Increase (decrease) in			
Accounts payable	12	19	(1)
Accounts payable to affiliated companies	(1)	10	(21)
Taxes accrued	11	3	(21)
Other current liabilities	(19)	(54)	88
Other assets	(28)	(35)	25
Other liabilities	(5)	(31)	(73)
Net cash provided by operating activities	479	425	667
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(686)	(476)	(399)
Notes receivable from affiliated companies	80	(94)	145
Other	(41)	(30)	(15)
Net cash used in investing activities	(647)	(600)	(269)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	182	341	—
Payments for the redemption of long-term debt	(2)	(53)	(157)
Notes payable to affiliated companies	13	(87)	(95)
Dividends to parent	(25)	(25)	(150)
Other	(1)	(2)	(2)
Net cash provided by (used in) financing activities	167	174	(404)
Net decrease in cash and cash equivalents	(1)	(1)	(6)
Cash and cash equivalents at beginning of period	13	14	20
Cash and cash equivalents at end of period	\$ 12	\$ 13	\$ 14
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 85	\$ 81	\$ 76
Cash (received from) paid for income taxes	(8)	(46)	410
Significant non-cash transactions:			
Accrued capital expenditures	82	83	20
Distribution of membership interest of Duke Energy SAM, LLC to parent	—	—	1,912

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Accumulated Deficit	Total Equity
Balance at December 31, 2014	\$762	\$ 4,782	\$(870)	\$ 4,674
Net income	—	—	172	172
Dividends to parent	—	(150)	—	(150)
Distribution of membership interest of Duke Energy SAM, LLC to parent	—	(1,912)	—	(1,912)
Balance at December 31, 2015	\$762	\$ 2,720	\$(698)	\$ 2,784
Net income	—	—	228	228
Contribution from parent	—	—	9	9
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2016	\$762	\$ 2,695	\$(461)	\$ 2,996
Net income	—	—	192	192
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2017	\$762	\$ 2,670	\$(269)	\$ 3,163

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Indiana, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Indiana, LLC and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 2002.

PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues	\$ 3,047	\$ 2,958	\$ 2,890
Operating Expenses			
Fuel used in electric generation and purchased power	966	909	982
Operation, maintenance and other	733	723	682
Depreciation and amortization	458	496	434
Property and other taxes	76	58	61
Impairment charges	18	8	88
Total operating expenses	2,251	2,194	2,247
Gains on Sales of Other Assets and Other, net	—	1	1
Operating Income	796	765	644
Other Income and Expenses, net	37	22	11
Interest Expense	178	181	176
Income Before Income Taxes	655	606	479
Income Tax Expense	301	225	163
Net Income	\$ 354	\$ 381	\$ 316
Other Comprehensive Loss, net of tax			
Reclassification into earnings from cash flow hedges	—	(1)	(2)
Comprehensive Income	\$ 354	\$ 380	\$ 314

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 9	\$ 17
Receivables (net of allowance for doubtful accounts of \$2 at 2017 and \$1 at 2016)	57	105
Receivables from affiliated companies	125	114
Notes receivable from affiliated companies	—	86
Inventory	450	504
Regulatory assets	165	149
Other	30	45
Total current assets	836	1,020
Property, Plant and Equipment		
Cost	14,948	14,241
Accumulated depreciation and amortization	(4,662)	(4,317)
Net property, plant and equipment	10,286	9,924
Other Noncurrent Assets		
Regulatory assets	978	1,073
Other	189	147
Total other noncurrent assets	1,167	1,220
Total Assets	\$ 12,289	\$ 12,164
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 196	\$ 263
Accounts payable to affiliated companies	78	74
Notes payable to affiliated companies	161	—
Taxes accrued	95	31
Interest accrued	57	61
Current maturities of long-term debt	3	3
Asset retirement obligations	54	—
Regulatory liabilities	24	40
Other	104	93
Total current liabilities	772	565
Long-Term Debt	3,630	3,633
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	925	1,900
Asset retirement obligations	727	866
Regulatory liabilities	1,723	748
Accrued pension and other post-retirement benefit costs	76	71
Investment tax credits	147	137
Other	18	27
Total other noncurrent liabilities	3,616	3,749
Commitments and Contingencies		
Equity		
Member's Equity	4,121	4,067
Total Liabilities and Equity	\$ 12,289	\$ 12,164

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 354	\$ 381	\$ 316
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization	462	499	439
Equity component of AFUDC	(28)	(16)	(11)
Gains on sales of other assets	—	—	(1)
Impairment charges	18	8	88
Deferred income taxes	152	213	262
Accrued pension and other post-retirement benefit costs	2	8	13
Contributions to qualified pension plans	—	(9)	(19)
Payments for asset retirement obligations	(45)	(46)	(19)
(Increase) decrease in			
Receivables	59	(2)	(7)
Receivables from affiliated companies	(11)	(43)	44
Inventory	54	66	(21)
Other current assets	28	(67)	90
Increase (decrease) in			
Accounts payable	(86)	8	33
Accounts payable to affiliated companies	4	(9)	25
Taxes accrued	64	(4)	35
Other current liabilities	(10)	(81)	26
Other assets	(28)	(27)	(82)
Other liabilities	(20)	(8)	(35)
Net cash provided by operating activities	969	871	1,176
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(840)	(755)	(690)
Purchases of available-for-sale securities	(20)	(14)	(9)
Proceeds from sales and maturities of available-for-sale securities	7	11	11
Proceeds from the sales of other assets	—	—	17
Notes receivable from affiliated companies	86	(3)	(83)
Other	(65)	32	(17)
Net cash used in investing activities	(832)	(729)	(771)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	—	494	—
Payments for the redemption of long-term debt	(5)	(478)	(5)
Notes payable to affiliated companies	161	—	(71)
Dividends to parent	—	—	(326)
Distributions to parent	(300)	(149)	—
Other	(1)	(1)	—
Net cash used in financing activities	(145)	(134)	(402)
Net (decrease) increase in cash and cash equivalents	(8)	8	3
Cash and cash equivalents at beginning of period	17	9	6
Cash and cash equivalents at end of period	\$ 9	\$ 17	\$ 9
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 179	\$ 171	\$ 175
Cash paid for (received from) income taxes	117	(7)	(253)
Significant non-cash transactions:			
Accrued capital expenditures	125	99	64

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive Income		Total Equity
				Member's Equity	Net Gains on Cash Flow Hedges	
Balance at December 31, 2014	\$ 1	\$ 1,384	\$ 2,460	\$ —	\$ 3	\$3,848
Net income	—	—	316	—	—	316
Other comprehensive loss	—	—	—	—	(2)	(2)
Dividends to parent	—	—	(326)	—	—	(326)
Balance at December 31, 2015	\$ 1	\$ 1,384	\$ 2,450	\$ —	\$ 1	\$3,836
Net income	—	—	—	381	—	381
Other comprehensive loss	—	—	—	—	(1)	(1)
Distributions to parent	—	—	—	(149)	—	(149)
Transfer to Member's Equity	(1)	(1,384)	(2,450)	3,835	—	—
Balance at December 31, 2016	\$ —	\$ —	\$ —	\$ 4,067	\$ —	\$ 4,067
Net income	—	—	—	354	—	354
Distributions to parent	—	—	—	(300)	—	(300)
Balance at December 31, 2017	\$ —	\$ —	\$ —	\$ 4,121	\$ —	\$ 4,121

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Piedmont Natural Gas Company, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Piedmont Natural Gas Company, Inc. and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the periods ended December 31, 2017, October 31, 2016, October 31, 2015 and for the 2 months ended December 31, 2016 and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the periods ended December 31, 2017, October 31, 2016, October 31, 2015 and for the 2 months ended December 31, 2016, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Emphasis of Matter

As discussed in Note 1 to the financial statements, effective for fiscal year 2016, the Company changed its fiscal year end from October 31 to December 31. This resulted in a 2-month transition period beginning November 1, 2016 through December 31, 2016.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 1951.

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Year Ended	Two Months Ended	Years Ended October 31,	
	December 31, 2017	December 31, 2016	2016	2015
Operating Revenues				
Regulated natural gas	\$ 1,319	\$ 320	\$ 1,139	\$ 1,372
Nonregulated natural gas and other	9	2	10	11
Total operating revenues	1,328	322	1,149	1,383
Operating Expenses				
Cost of natural gas	524	144	391	644
Operation, maintenance and other	315	52	353	305
Depreciation and amortization	148	23	137	129
Property and other taxes	48	7	43	42
Impairment charges	7	—	—	—
Total operating expenses	1,042	226	924	1,120
Operating Income				
	286	96	225	263
Equity in (losses) earnings of unconsolidated affiliates	(6)	2	29	34
Gain on sale of unconsolidated affiliates	—	—	133	—
Other income and expense, net	—	—	(1)	(1)
Total other income and expenses	(6)	2	161	33
Interest Expense				
	79	12	69	69
Income Before Income Taxes				
	201	86	317	227
Income Tax Expense				
	62	32	124	90
Net Income				
	\$ 139	\$ 54	\$ 193	\$ 137
Other Comprehensive Income (Loss), net of tax				
Unrealized loss from hedging activities of equity method investments	—	—	(3)	(2)
Reclassification into earnings from hedging activities of equity method investments	—	—	4	1
Other Comprehensive Income (Loss), net of tax				
	—	—	1	(1)
Comprehensive Income				
	\$ 139	\$ 54	\$ 194	\$ 136

See Notes to Consolidated Financial Statements

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 19	\$ 25
Receivables (net of allowance for doubtful accounts of \$2 at 2017 and \$3 at 2016)	275	232
Receivables from affiliated companies	7	7
Inventory	66	66
Regulatory assets	95	124
Other	52	21
Total current assets	514	475
Property, Plant and Equipment		
Cost	6,725	6,174
Accumulated depreciation and amortization	(1,479)	(1,360)
Net property, plant and equipment	5,246	4,814
Other Noncurrent Assets		
Goodwill	49	49
Regulatory assets	283	373
Investments in equity method unconsolidated affiliates	61	212
Other	65	21
Total other noncurrent assets	458	655
Total Assets	\$ 6,218	\$ 5,944
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 125	\$ 155
Accounts payable to affiliated companies	13	8
Notes payable and commercial paper	—	330
Notes payable to affiliated companies	364	—
Taxes accrued	19	67
Interest accrued	31	33
Current maturities of long-term debt	250	35
Regulatory liabilities	3	—
Other	69	102
Total current liabilities	874	730
Long-Term Debt	1,787	1,786
Other Noncurrent Liabilities		
Deferred income taxes	564	931
Asset retirement obligations	15	14
Regulatory liabilities	1,141	608
Accrued pension and other post-retirement benefit costs	5	14
Other	170	189
Total other noncurrent liabilities	1,895	1,756
Commitments and Contingencies		
Equity		
Common stock, no par value: 100 shares authorized and outstanding at 2017 and 2016	860	860
Retained earnings	802	812
Total equity	1,662	1,672
Total Liabilities and Equity	\$ 6,218	\$ 5,944

See Notes to Consolidated Financial Statements

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Year Ended	Two Months Ended	Years Ended October 31,	
	December 31, 2017	December 31, 2016	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES				
Net income	\$ 139	\$ 54	\$ 193	\$ 137
Adjustments to reconcile net income to net cash provided by operating activities:				
Depreciation and amortization	151	25	148	140
Gains on sales of other assets	—	—	(133)	—
Impairment charges	7	—	—	—
Deferred income taxes	154	26	74	73
Equity in losses (earnings) from unconsolidated affiliates	6	(2)	(29)	(34)
Accrued pension and other post-retirement benefit costs	23	5	3	8
Contributions to qualified pension plans	(11)	(10)	(14)	(13)
Payments for asset retirement obligations	—	(1)	(6)	(6)
(Increase) decrease in				
Receivables	(40)	(157)	12	3
Receivables from affiliated companies	—	—	(7)	—
Inventory	—	(11)	14	16
Other current assets	(20)	8	(98)	46
Increase (decrease) in				
Accounts payable	(13)	35	6	(5)
Accounts payable to affiliated companies	5	4	6	—
Taxes accrued	(48)	(2)	38	4
Other current liabilities	(9)	2	28	(21)
Other assets	7	(7)	(107)	(5)
Other liabilities	(2)	5	180	29
Net cash provided by (used in) operating activities	349	(26)	308	372
CASH FLOWS FROM INVESTING ACTIVITIES				
Capital expenditures	(585)	(113)	(522)	(444)
Contributions to equity method investments	(12)	(12)	(47)	(30)
Proceeds from the sales of other assets	—	—	175	—
Other	(6)	1	21	(5)
Net cash used in investing activities	(603)	(124)	(373)	(479)
CASH FLOWS FROM FINANCING ACTIVITIES				
Proceeds from the:				
Issuance of long-term debt	250	—	295	148
Issuance of common stock	—	—	122	81
Payments for the redemption of long-term debt	(35)	—	(40)	—
Notes payable and commercial paper	(330)	185	(195)	(15)
Notes payable to affiliated companies	364	—	—	—
Dividends to parent	—	(27)	—	—
Dividends paid	—	—	(114)	(103)
Other	(1)	—	—	—
Net cash provided by financing activities	248	158	68	111
Net (decrease) increase in cash and cash equivalents	(6)	8	3	4
Cash and cash equivalents at beginning of period	25	17	14	10
Cash and cash equivalents at end of period	\$ 19	\$ 25	\$ 17	\$ 14
Supplemental Disclosures:				
Cash paid for interest, net of amount capitalized	\$ 78	\$ 11	\$ 81	\$ 72
Cash (received from) paid for income taxes	(12)	—	(25)	3
Significant non-cash transactions:				
Accrued capital expenditures	34	48	63	59
Transfer of ownership interest of certain equity method investees to parent	149	—	—	—

See Notes to Consolidated Financial Statements

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Accumulated Other Comprehensive Income (Loss)			Total Equity
	Common Stock	Retained Earnings	Net Loss on Hedging Activities of Unconsolidated Affiliates	
Balance at October 31, 2014	\$ 637	\$ 672	\$ —	\$ 1,309
Net income	—	137	—	137
Other comprehensive loss	—	—	(1)	(1)
Common stock issuances, including dividend reinvestment and employee benefits	85	—	—	85
Expenses from issuance of common stock	(1)	—	—	(1)
Common stock dividends	—	(103)	—	(103)
Balance at October 31, 2015	\$ 721	\$ 706	\$ (1)	\$ 1,426
Net income	—	193	—	193
Other comprehensive income	—	—	1	1
Common stock issuances, including dividend reinvestment and employee benefits	139	—	—	139
Common stock dividends	—	(114)	—	(114)
Balance at October 31, 2016	\$ 860	\$ 785	\$ —	\$ 1,645
Net income	—	54	—	54
Dividends to parent	—	(27)	—	(27)
Balance at December 31, 2016	\$ 860	\$ 812	\$ —	\$ 1,672
Net income	—	139	—	139
Transfer of ownership interest of certain equity method investees to parent	—	(149)	—	(149)
Balance at December 31, 2017	\$ 860	\$ 802	\$ —	\$ 1,662

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements

For the Years Ended December 31, 2017, 2016 and 2015

Index to Combined Notes to Consolidated Financial Statements

The notes to the consolidated financial statements are a combined presentation. The following table indicates the registrants to which the notes apply.

Registrant	Applicable Notes																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Duke Energy Corporation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Duke Energy Carolinas, LLC	•		•	•	•	•		•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•
Progress Energy, Inc.	•		•	•	•	•	•		•	•	•	•		•	•	•	•		•	•	•	•	•	•	•
Duke Energy Progress, LLC	•		•	•	•	•			•	•	•	•		•	•	•	•		•	•	•	•	•	•	•
Duke Energy Florida, LLC	•		•	•	•	•			•	•	•	•		•	•	•	•		•	•	•	•	•	•	•
Duke Energy Ohio, Inc.	•	•	•	•	•	•		•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Indiana, LLC	•		•	•	•	•		•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•
Piedmont Natural Gas Company, Inc.	•	•	•	•	•	•			•	•	•	•		•	•	•	•		•	•	•	•	•	•	•

Tables within the notes may not sum across due to (i) Progress Energy's consolidation of Duke Energy Progress, Duke Energy Florida and other subsidiaries that are not registrants and (ii) subsidiaries that are not registrants but included in the consolidated Duke Energy balances.

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

NATURE OF OPERATIONS AND BASIS OF CONSOLIDATION

Duke Energy Corporation (collectively with its subsidiaries, Duke Energy) is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the Federal Energy Regulatory Commission (FERC). Duke Energy operates in the United States (U.S.) primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas, LLC (Duke Energy Carolinas); Progress Energy, Inc. (Progress Energy); Duke Energy Progress, LLC (Duke Energy Progress); Duke Energy Florida, LLC (Duke Energy Florida); Duke Energy Ohio, Inc. (Duke Energy Ohio); Duke Energy Indiana, LLC (Duke Energy Indiana) and Piedmont Natural Gas Company, Inc. (Piedmont). When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its seven separate subsidiary registrants (collectively referred to as the Subsidiary Registrants), which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

In October 2016, Duke Energy completed the acquisition of Piedmont. Duke Energy's consolidated financial statements include Piedmont's results of operations and cash flows activity subsequent to the acquisition date. Effective November 1, 2016, Piedmont's fiscal year-end was changed from October 31 to December 31, the year-end of Duke Energy. A transition report was filed on Form 10-Q (Form 10-QT) as of December 31, 2016, for the transition period from November 1, 2016, to December 31, 2016. See Note 2 for additional information regarding the acquisition.

In December 2016, Duke Energy completed an exit of the Latin American market to focus on its domestic regulated business, which was further bolstered by the acquisition of Piedmont. The sale of the International Energy business segment, excluding an equity method investment in National Methanol Company (NMC), was completed through two transactions including a sale of assets in Brazil to China Three Gorges (Luxembourg) Energy S.à.r.l. (CTG) and a sale of Duke Energy's remaining Latin American assets in Peru, Chile, Ecuador, Guatemala, El Salvador and Argentina to ISQ Enerlam Aggregator, L.P. and Enerlam (UK) Holding Ltd. (I Squared) (collectively, the International Disposal Group). See Note 2 for additional information on the sale of International Energy.

The information in these combined notes relates to each of the Duke Energy Registrants as noted in the Index to Combined Notes to Consolidated Financial Statements. However, none of the Subsidiary Registrants make any representation as to information related solely to Duke Energy or the Subsidiary Registrants of Duke Energy other than itself.

These Consolidated Financial Statements include, after eliminating intercompany transactions and balances, the accounts of the Duke Energy Registrants and subsidiaries where the respective Duke Energy Registrants have control. These Consolidated Financial Statements also reflect the Duke Energy Registrants' proportionate share of certain jointly owned generation and transmission facilities. Substantially all of the Subsidiary Registrants' operations qualify for regulatory accounting.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas is subject to the regulatory provisions of the North Carolina Utilities Commission (NCUC), Public Service Commission of South Carolina (PSCSC), U.S. Nuclear Regulatory Commission (NRC) and FERC.

Progress Energy is a public utility holding company headquartered in Raleigh, North Carolina, subject to regulation by FERC. Progress Energy conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida.

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida is subject to the regulatory provisions of the Florida Public Service Commission (FPSC), NRC and FERC.

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio conducts competitive auctions for retail electricity supply in Ohio whereby the energy price is recovered from retail customers and recorded in Operating Revenues on the Consolidated Statements of Operations and Comprehensive Income. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky, Inc. (Duke Energy Kentucky). References herein to Duke Energy Ohio collectively include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the Public Utilities Commission of Ohio (PUCO), Kentucky Public Service Commission (KPSC) and FERC. On April 2, 2015, Duke Energy completed the sale of its nonregulated Midwest generation business, which sold power into wholesale energy markets, to a subsidiary of Dynegy Inc. (Dynegy). For further information about the sale of the Midwest Generation business, refer to Note 2. Substantially all of Duke Energy Ohio's operations that remain after the sale qualify for regulatory accounting.

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana is subject to the regulatory provisions of the Indiana Utility Regulatory Commission (IURC) and FERC.

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas in portions of North Carolina, South Carolina and Tennessee. Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, Tennessee Public Utility Commission (TPUC) and FERC.

Certain prior year amounts have been reclassified to conform to the current year presentation.

Other Current Assets and Liabilities

The following table provides a description of amounts included in Other within Current Assets or Current Liabilities that exceed 5 percent of total Current Assets or Current Liabilities on the Duke Energy Registrants' Consolidated Balance Sheets at either December 31, 2017, or 2016.

(in millions)	Location	December 31,	
		2017	2016
Duke Energy			
Accrued compensation	Current Liabilities	\$ 757	\$ 765
Duke Energy Carolinas			
Accrued compensation	Current Liabilities	\$ 252	\$ 248
Customer deposits	Current Liabilities	121	155
Progress Energy			
Income taxes receivable	Current Assets	\$ 278	\$ 19
Customer deposits	Current Liabilities	338	363
Duke Energy Progress			
Customer deposits	Current Liabilities	\$ 129	\$ 141
Accrued compensation	Current Liabilities	132	135
Duke Energy Florida			
Customer deposits	Current Liabilities	\$ 208	\$ 222
Duke Energy Ohio			
Income taxes receivable	Current Assets	\$ 36	\$ 16
Customer deposits	Current Liabilities	46	62
Duke Energy Indiana			
Customer deposits	Current Liabilities	\$ 45	\$ 44
Piedmont			
Income taxes receivable	Current Assets	\$ 43	\$ 9

Discontinued Operations

The results of operations of the International Disposal Group as well as Duke Energy Ohio's nonregulated Midwest Generation business and Duke Energy Retail Sales, LLC (collectively, Midwest Generation Disposal Group) have been classified as Discontinued Operations on Duke Energy's Consolidated Statements of Operations. Duke Energy has elected to present cash flows of discontinued operations combined with cash flows of continuing operations. Unless otherwise noted, the notes to these consolidated financial statements exclude amounts related to discontinued operations for all periods presented. See Note 2 for additional information.

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Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Attributable to Controlling Interests

For the year ended December 31, 2017, the Loss From Discontinued Operations, net of tax on Duke Energy's Consolidated Statement of Operations is entirely attributable to controlling interest. The following table presents Net Income Attributable to Duke Energy Corporation for continuing operations and discontinued operations for the years ended December 31, 2016, and 2015.

(in millions)	Year ended December 31,	
	2016	2015
Income from Continuing Operations	\$ 2,578	\$ 2,654
Income from Continuing Operations Attributable to Noncontrolling Interests	7	9
Income from Continuing Operations Attributable to Duke Energy Corporation	\$ 2,571	\$ 2,645
(Loss) Income From Discontinued Operations, net of tax	\$ (408)	\$ 177
Income from Discontinued Operations Attributable to Noncontrolling Interests, net of tax	11	6
(Loss) Income From Discontinued Operations Attributable to Duke Energy Corporation, net of tax	\$ (419)	\$ 171
Net Income	\$ 2,170	\$ 2,831
Net Income Attributable to Noncontrolling Interests	18	15
Net Income Attributable to Duke Energy Corporation	\$ 2,152	\$ 2,816

SIGNIFICANT ACCOUNTING POLICIES

Use of Estimates

In preparing financial statements that conform to generally accepted accounting principles (GAAP) in the U.S., the Duke Energy Registrants must make estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses and the disclosure of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Regulatory Accounting

The majority of the Duke Energy Registrants' operations are subject to price regulation for the sale of electricity and natural gas by state utility commissions or FERC. When prices are set on the basis of specific costs of the regulated operations and an effective franchise is in place such that sufficient natural gas or electric services can be sold to recover those costs, the Duke Energy Registrants apply regulatory accounting. Regulatory accounting changes the timing of the recognition of costs or revenues relative to a company that does not apply regulatory accounting. As a result, regulatory assets and regulatory liabilities are recognized on the Consolidated Balance Sheets. Regulatory assets and liabilities are amortized consistent with the treatment of the related cost in the ratemaking process. See Note 4 for further information.

Regulatory accounting rules also require recognition of a disallowance (also called "impairment") loss if it becomes probable that part of the cost of a plant under construction (or a recently completed plant or an abandoned plant) will be disallowed for ratemaking purposes and a reasonable estimate of the amount of the disallowance can be made. These disallowances can require judgments on allowed future rate recovery.

When it becomes probable that regulated generation, transmission or distribution assets will be abandoned, the cost of the asset is removed from plant in service. The value that may be retained as a regulatory asset on the

balance sheet for the abandoned property is dependent upon amounts that may be recovered through regulated rates, including any return. As such, an impairment charge could be partially or fully offset by the establishment of a regulatory asset if rate recovery is probable. The impairment for a disallowance of costs for regulated plants under construction, recently completed or abandoned is based on discounted cash flows.

Regulated Fuel and Purchased Gas Adjustment Clauses

The Duke Energy Registrants utilize cost-tracking mechanisms, commonly referred to as fuel adjustment clauses or purchased gas adjustment clauses (PGA). These clauses allow for the recovery of fuel and fuel-related costs, portions of purchased power, natural gas costs and hedging costs through surcharges on customer rates. The difference between the costs incurred and the surcharge revenues is recorded either as an adjustment to Operating Revenues, Operating Expenses – Fuel used in electric generation or Operating Expenses – Cost of natural gas on the Consolidated Statements of Operations, with an off-setting impact on regulatory assets or liabilities.

Cash and Cash Equivalents

All highly liquid investments with maturities of three months or less at the date of acquisition are considered cash equivalents.

Restricted Cash

The Duke Energy Registrants have restricted cash related primarily to collateral assets, escrow deposits and variable interest entities (VIEs). Restricted cash balances are reflected in Other within Current Assets and in Other within Other Noncurrent Assets on the Consolidated Balance Sheets. At December 31, 2017, and 2016, Duke Energy had restricted cash totaling \$147 million and \$137 million, respectively.

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Combined Notes to Consolidated Financial Statements – (Continued)

Inventory

Inventory is used for operations and is recorded primarily using the average cost method. Inventory related to regulated operations is valued at historical cost. Inventory related to nonregulated operations is valued at the lower of cost or market. Materials and supplies are recorded as inventory when purchased and subsequently charged to expense or capitalized to property, plant and equipment when installed. Inventory, including excess or obsolete inventory, is written-down to the lower of cost or market value. Once inventory has been written-down, it creates a new cost basis for the inventory that is not subsequently written-up. Provisions for inventory write-offs were not material at December 31, 2017, and 2016. The components of inventory are presented in the tables below.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,293	\$ 744	\$ 1,118	\$ 774	\$ 343	\$ 82	\$ 309	\$ 2
Coal	603	192	255	139	116	17	139	—
Natural gas, oil and other	354	35	219	104	115	34	2	64
Total inventory	\$ 3,250	\$ 971	\$ 1,592	\$ 1,017	\$ 574	\$ 133	\$ 450	\$ 66

(in millions)	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,374	\$ 767	\$ 1,167	\$ 813	\$ 354	\$ 84	\$ 312	\$ 1
Coal	774	251	314	148	166	19	190	—
Natural gas, oil and other	374	37	236	115	121	34	2	65
Total inventory	\$ 3,522	\$ 1,055	\$ 1,717	\$ 1,076	\$ 641	\$ 137	\$ 504	\$ 66

Investments in Debt and Equity Securities

The Duke Energy Registrants classify investments into two categories – trading and available-for-sale. Both categories are recorded at fair value on the Consolidated Balance Sheets. Realized and unrealized gains and losses on trading securities are included in earnings. For certain investments of regulated operations, such as substantially all of the Nuclear Decommissioning Trust Funds (NDF), realized and unrealized gains and losses (including any other-than-temporary impairments (OTTIs)) on available-for-sale securities are recorded as a regulatory asset or liability. Otherwise, unrealized gains and losses are included in Accumulated Other Comprehensive Income (AOCI), unless other-than-temporarily impaired. OTTIs for equity securities and the credit loss portion of debt securities of nonregulated operations are included in earnings. Investments in debt and equity securities are classified as either current or noncurrent based on management's intent and ability to sell these securities, taking into consideration current market liquidity. See Note 15 for further information.

Goodwill and Intangible Assets

Goodwill

Effective with Piedmont's change in fiscal year end to December 31, as discussed above, Piedmont changed the date of its annual impairment testing of goodwill from October 31 to August 31 to align with the other Duke Energy Registrants.

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont perform annual goodwill impairment tests as of August 31 each year at the reporting unit level, which is determined to be an operating segment or one level below. Duke

Energy, Progress Energy, Duke Energy Ohio and Piedmont update these tests between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value.

Intangible Assets

Intangible assets are included in Other in Other Noncurrent Assets on the Consolidated Balance Sheets. Generally, intangible assets are amortized using an amortization method that reflects the pattern in which the economic benefits of the intangible asset are consumed or on a straight-line basis if that pattern is not readily determinable. Amortization of intangibles is reflected in Depreciation and amortization on the Consolidated Statements of Operations. Intangible assets are subject to impairment testing and if impaired, the carrying value is accordingly reduced.

Emission allowances permit the holder of the allowance to emit certain gaseous byproducts of fossil fuel combustion, including sulfur dioxide (SO₂) and nitrogen oxide (NO_x). Allowances are issued by the U.S. Environmental Protection Agency (EPA) at zero cost and may also be bought and sold via third-party transactions. Allowances allocated to or acquired by the Duke Energy Registrants are held primarily for consumption. Carrying amounts for emission allowances are based on the cost to acquire the allowances or, in the case of a business combination, on the fair value assigned in the allocation of the purchase price of the acquired business. Emission allowances are expensed to Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

Renewable energy certificates are used to measure compliance with renewable energy standards and are held primarily for consumption. See Note 11 for further information.

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Combined Notes to Consolidated Financial Statements – (Continued)

Long-Lived Asset Impairments

The Duke Energy Registrants evaluate long-lived assets, excluding goodwill, for impairment when circumstances indicate the carrying value of those assets may not be recoverable. An impairment exists when a long-lived asset's carrying value exceeds the estimated undiscounted cash flows expected to result from the use and eventual disposition of the asset. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. If the carrying value of the long-lived asset is not recoverable based on these estimated future undiscounted cash flows, the carrying value of the asset is written-down to its then-current estimated fair value and an impairment charge is recognized.

The Duke Energy Registrants assess fair value of long-lived assets using various methods, including recent comparable third-party sales, internally developed discounted cash flow analysis and analysis from outside advisors. Triggering events to reassess cash flows may include, but are not limited to, significant changes in commodity prices, the condition of an asset or management's interest in selling the asset.

Property, Plant and Equipment

Property, plant and equipment are stated at the lower of depreciated historical cost net of any disallowances or fair value, if impaired. The Duke Energy Registrants capitalize all construction-related direct labor and material costs, as well as indirect construction costs such as general engineering, taxes and financing costs. See "Allowance for Funds Used During Construction (AFUDC) and Interest Capitalized" for information on capitalized financing costs. Costs of renewals and betterments that extend the useful life of property, plant and equipment are also capitalized. The cost of repairs, replacements and major maintenance projects, which do not extend the useful life or increase the expected output of the asset, are expensed as incurred. Depreciation is generally computed over the estimated useful life of the asset using the composite straight-line method. Depreciation studies are conducted periodically to update composite rates and are approved by state utility commissions and/or the FERC when required. The composite weighted average depreciation rates, excluding nuclear fuel, are included in the table that follows.

	Years Ended December 31,		
	2017	2016	2015
Duke Energy	2.8%	2.8%	2.9%
Duke Energy Carolinas	2.8%	2.8%	2.8%
Progress Energy	2.6%	2.7%	2.6%
Duke Energy Progress	2.6%	2.6%	2.6%
Duke Energy Florida	2.8%	2.8%	2.7%
Duke Energy Ohio	2.8%	2.6%	2.7%
Duke Energy Indiana	3.0%	3.1%	3.0%
Piedmont ^(a)	2.3%		

(a) Piedmont's weighted average depreciation rate was 2.4 percent, 2.4 percent, and 2.5 percent for the annualized two months ended December 31, 2016 and for the years ended October 31, 2016 and 2015, respectively.

In general, when the Duke Energy Registrants retire regulated property, plant and equipment, the original cost plus the cost of retirement, less salvage value, is charged to accumulated depreciation. However, when it becomes

probable the asset will be retired substantially in advance of its original expected useful life or is abandoned, the cost of the asset and the corresponding accumulated depreciation is recognized as a separate asset. If the asset is still in operation, the net amount is classified as Generation facilities to be retired, net on the Consolidated Balance Sheets. If the asset is no longer operating, the net amount is classified in Regulatory assets on the Consolidated Balance Sheets if deemed recoverable (see discussion of long-lived asset impairments above). When it becomes probable an asset will be abandoned, the cost of the asset and accumulated depreciation is reclassified to Regulatory assets on the Consolidated Balance Sheets for amounts recoverable in rates. The carrying value of the asset is based on historical cost if the Duke Energy Registrants are allowed to recover the remaining net book value and a return equal to at least the incremental borrowing rate. If not, an impairment is recognized to the extent the net book value of the asset exceeds the present value of future revenues discounted at the incremental borrowing rate.

When the Duke Energy Registrants sell entire regulated operating units, or retire or sell nonregulated properties, the original cost and accumulated depreciation and amortization balances are removed from Property, Plant and Equipment on the Consolidated Balance Sheets. Any gain or loss is recorded in earnings, unless otherwise required by the applicable regulatory body.

See Note 10 for further information.

Nuclear Fuel

Nuclear fuel is classified as Property, Plant and Equipment on the Consolidated Balance Sheets, except for Duke Energy Florida. Nuclear fuel amounts at Duke Energy Florida were reclassified to Regulatory assets pursuant to the Revised and Restated Stipulation and Settlement Agreement approved in November 2013 among Duke Energy Florida, the Florida Office of Public Counsel (Florida OPC) and other customer advocates (the 2013 Settlement).

Nuclear fuel in the front-end fuel processing phase is considered work in progress and not amortized until placed in service. Amortization of nuclear fuel is included within Fuel used in electric generation and purchased power on the Consolidated Statements of Operations. Amortization is recorded using the units-of-production method.

Allowance for Funds Used During Construction and Interest Capitalized

For regulated operations, the debt and equity costs of financing the construction of property, plant and equipment are reflected as AFUDC and capitalized as a component of the cost of property, plant and equipment. AFUDC equity is reported on the Consolidated Statements of Operations as non-cash income in Other income and expenses, net. AFUDC debt is reported as a non-cash offset to Interest Expense. After construction is completed, the Duke Energy Registrants are permitted to recover these costs through their inclusion in rate base and the corresponding subsequent depreciation or amortization of those regulated assets.

AFUDC equity, a permanent difference for income taxes, reduces the effective tax rate (ETR) when capitalized and increases the ETR when depreciated or amortized. See Note 22 for additional information.

For nonregulated operations, interest is capitalized during the construction phase with an offsetting non-cash credit to Interest Expense on the Consolidated Statements of Operations.

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Asset Retirement Obligations

Asset retirement obligations (AROs) are recognized for legal obligations associated with the retirement of property, plant and equipment. Substantially all AROs are related to regulated operations. When recording an ARO, the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made. The liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be recoverable.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. The Duke Energy Registrants receive amounts to fund the cost of the ARO for regulated operations through a combination of regulated revenues and earnings on the NDTF. As a result, amounts recovered in regulated revenues, earnings on the NDTF, accretion expense and depreciation of the associated asset are netted and deferred as a regulatory asset or liability.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. Duke Energy Florida assumes Crystal River Unit 3 Nuclear Plant (Crystal River Unit 3) will be placed into a safe storage configuration until eventual dismantlement is completed by 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built U.S. Department of Energy (DOE) facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis. See Note 9 for additional information.

Revenue Recognition and Unbilled Revenue

Revenues on sales of electricity and natural gas are recognized when service is provided or the product is delivered. Unbilled revenues are recognized by applying customer billing rates to the estimated volumes of energy or natural gas delivered but not yet billed. Unbilled revenues can vary significantly from period to period as a result of seasonality, weather, customer usage patterns, customer mix, average price in effect for customer classes, timing of rendering customer bills and meter reading schedules, and the impact of weather normalization or margin decoupling mechanisms.

Unbilled revenues are included within Receivables and Receivables of VIEs on the Consolidated Balance Sheets as shown in the following table.

(in millions)	December 31,	
	2017	2016
Duke Energy	\$ 944	\$ 831
Duke Energy Carolinas	342	313
Progress Energy	228	161
Duke Energy Progress	143	102
Duke Energy Florida	85	59
Duke Energy Ohio	4	2
Duke Energy Indiana	21	32
Piedmont	86	77

Additionally, Duke Energy Ohio and Duke Energy Indiana sell, on a revolving basis, nearly all of their retail accounts receivable, including receivables for unbilled revenues, to an affiliate, Cinergy Receivables Company LLC (CRC) and account for the transfers of receivables as sales. Accordingly, the receivables sold are not reflected on the Consolidated Balance Sheets of Duke Energy Ohio and Duke Energy Indiana. See Note 17 for further information. These receivables for unbilled revenues are shown in the table below.

(in millions)	December 31,	
	2017	2016
Duke Energy Ohio	\$ 104	\$ 97
Duke Energy Indiana	132	123

Allowance for Doubtful Accounts

Allowances for doubtful accounts are presented in the following table.

(in millions)	December 31,		
	2017	2016	2015
Allowance for Doubtful Accounts			
Duke Energy	\$ 14	\$ 14	\$ 12
Duke Energy Carolinas	2	2	3
Progress Energy	4	6	6
Duke Energy Progress	1	4	4
Duke Energy Florida	3	2	2
Duke Energy Ohio	3	2	2
Duke Energy Indiana	2	1	1
Piedmont ^(a)	2	3	
Allowance for Doubtful Accounts – VIEs			
Duke Energy	\$ 54	\$ 54	\$ 53
Duke Energy Carolinas	7	7	7
Progress Energy	7	7	8
Duke Energy Progress	5	5	5
Duke Energy Florida	2	2	3

(a) Piedmont's allowance for doubtful accounts was \$2 million as of October 31, 2016, and 2015.

Derivatives and Hedging

Derivative and non-derivative instruments may be used in connection with commodity price and interest rate activities, including swaps, futures, forwards and options. All derivative instruments, except those that qualify for the normal purchase/normal sale (NPNS) exception, are recorded on the Consolidated Balance Sheets at fair value. Qualifying derivative instruments may be designated as either cash flow hedges or fair value hedges. Other derivative instruments (undesignated contracts) either have not been designated or do not qualify as hedges. The effective portion of the change in the fair value of cash flow hedges is recorded in AOCI. The effective portion of the change in the fair value of a fair value hedge is offset in net income by changes in the hedged item. For activity subject to regulatory accounting, gains and losses on derivative contracts are reflected as regulatory assets or liabilities and not as other comprehensive income or current period income. As a result, changes in fair value of these derivatives have no immediate earnings impact.

Formal documentation, including transaction type and risk management strategy, is maintained for all contracts accounted for as a hedge. At inception and at least every three months thereafter, the hedge contract is assessed to see if it is highly effective in offsetting changes in cash flows or fair values of hedged items. See Note 14 for further information.

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Captive Insurance Reserves

Duke Energy has captive insurance subsidiaries that provide coverage, on an indemnity basis, to the Subsidiary Registrants as well as certain third parties, on a limited basis, for financial losses, primarily related to property, workers' compensation and general liability. Liabilities include provisions for estimated losses incurred but not yet reported (IBNR), as well as estimated provisions for known claims. IBNR reserve estimates are primarily based upon historical loss experience, industry data and other actuarial assumptions. Reserve estimates are adjusted in future periods as actual losses differ from experience.

Duke Energy, through its captive insurance entities, also has reinsurance coverage with third parties for certain losses above a per occurrence and/or aggregate retention. Receivables for reinsurance coverage are recognized when realization is deemed probable.

Unamortized Debt Premium, Discount and Expense

Premiums, discounts and expenses incurred with the issuance of outstanding long-term debt are amortized over the term of the debt issue. The gain or loss on extinguishment associated with refinancing higher-cost debt obligations in the regulated operations is amortized. Amortization expense is recorded as Interest Expense in the Consolidated Statements of Operations and is reflected as Depreciation, amortization and accretion within Net cash provided by operating activities on the Consolidated Statements of Cash Flows.

Premiums, discounts and expenses are presented as an adjustment to the carrying value of the debt amount and included in Long-Term Debt on the Consolidated Balance Sheets presented.

Loss Contingencies and Environmental Liabilities

Contingent losses are recorded when it is probable a loss has occurred and can be reasonably estimated. When a range of the probable loss exists and no amount within the range is a better estimate than any other amount, the minimum amount in the range is recorded. Unless otherwise required by GAAP, legal fees are expensed as incurred.

Environmental liabilities are recorded on an undiscounted basis when environmental remediation or other liabilities become probable and can be reasonably estimated. Environmental expenditures related to past operations that do not generate current or future revenues are expensed. Environmental expenditures related to operations that generate current or future revenues are expensed or capitalized, as appropriate. Certain environmental expenditures receive regulatory accounting treatment and are recorded as regulatory assets.

See Notes 4 and 5 for further information.

Pension and Other Post-Retirement Benefit Plans

Duke Energy maintains qualified, non-qualified and other post-retirement benefit plans. Eligible employees of the Subsidiary Registrants participate in the respective qualified, non-qualified and other post-retirement benefit plans and the Subsidiary Registrants are allocated their proportionate share of benefit costs. See Note 21 for further information, including significant accounting policies associated with these plans.

Severance and Special Termination Benefits

Duke Energy has severance plans under which, in general, the longer a terminated employee worked prior to termination the greater the amount

of severance benefits. A liability for involuntary severance is recorded once an involuntary severance plan is committed to by management if involuntary severances are probable and can be reasonably estimated. For involuntary severance benefits incremental to its ongoing severance plan benefits, the fair value of the obligation is expensed at the communication date if there are no future service requirements or over the required future service period. From time to time, Duke Energy offers special termination benefits under voluntary severance programs. Special termination benefits are recorded immediately upon employee acceptance absent a significant retention period. Otherwise, the cost is recorded over the remaining service period. Employee acceptance of voluntary severance benefits is determined by management based on the facts and circumstances of the benefits being offered. See Note 19 for further information.

Guarantees

If necessary, liabilities are recognized at the time of issuance or material modification of a guarantee for the estimated fair value of the obligation it assumes. Fair value is estimated using a probability-weighted approach. The obligation is reduced over the term of the guarantee or related contract in a systematic and rational method as risk is reduced. Any additional contingent loss for guarantee contracts subsequent to the initial recognition of a liability is accounted for and recognized at the time a loss is probable and can be reasonably estimated. See Note 7 for further information.

Stock-Based Compensation

Stock-based compensation represents costs related to stock-based awards granted to employees and Duke Energy Board of Directors (Board of Directors) members. Duke Energy recognizes stock-based compensation based upon the estimated fair value of awards, net of estimated forfeitures at the date of issuance. The recognition period for these costs begins at either the applicable service inception date or grant date and continues throughout the requisite service period. Compensation cost is recognized as expense or capitalized as a component of property, plant and equipment. See Note 20 for further information.

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and foreign jurisdictional returns. The Subsidiary Registrants are parties to a tax-sharing agreement with Duke Energy. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. Investment tax credits (ITCs) associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

Accumulated deferred income taxes are valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. Other impacts of the Tax Act have been recorded on

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a provisional basis, see Note 22, “Income Taxes,” for additional information. If Duke Energy’s estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, revised to incorporate new accounting principles, or changes in the expected timing or manner of the reversal then Duke Energy’s results of operations could be impacted.

Tax-related interest and penalties are recorded in Interest Expense and Other Income and Expenses, net in the Consolidated Statements of Operations. See Note 22 for further information.

Accounting for Renewable Energy Tax Credits

When Duke Energy receives ITCs on wind or solar facilities, it reduces the basis of the property recorded on the Consolidated Balance Sheets by the amount of the ITC and, therefore, the ITC benefit is ultimately recognized in the statement of operations through reduced depreciation expense. Additionally, certain tax credits and government grants result in an initial tax depreciable base in excess of the book carrying value by an amount equal to one half of the ITC. Deferred tax benefits are recorded as a reduction to income tax expense in the period that the basis difference is created.

Excise Taxes

Certain excise taxes levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis. Otherwise, the taxes are accounted for net. Excise taxes accounted for on a gross basis within both Operating Revenues and Property and other taxes in the Consolidated Statements of Operations were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Duke Energy	\$ 376	\$ 362	\$ 396
Duke Energy Carolinas	36	31	31
Progress Energy	220	213	229
Duke Energy Progress	19	18	16
Duke Energy Florida	201	195	213
Duke Energy Ohio	98	100	102
Duke Energy Indiana	20	17	34
Piedmont ^(a)	2		

(a) Piedmont’s excise taxes were immaterial for the two months ended December 31, 2016, and \$2 million for the years ended October 31, 2016, and 2015.

Dividend Restrictions and Unappropriated Retained Earnings

Duke Energy does not have any legal, regulatory or other restrictions on paying common stock dividends to shareholders. However, as further described in Note 4, due to conditions established by regulators in conjunction with merger transaction approvals, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Indiana and Piedmont have restrictions on paying dividends or otherwise advancing funds to Duke Energy. At December 31, 2017, and 2016, an insignificant amount of Duke Energy’s consolidated Retained earnings balance represents undistributed earnings of equity method investments.

NEW ACCOUNTING STANDARDS

The new accounting standards adopted for 2017 and 2016 had no material impact on the presentation or results of operations, cash flows or financial position of the Duke Energy Registrants. The following accounting standards were adopted by the Duke Energy Registrants during 2017.

Stock-Based Compensation and Income Taxes. In first quarter 2017, Duke Energy adopted Financial Accounting Standards Board (FASB) guidance, which revised the accounting for stock-based compensation and the associated income taxes. The adopted guidance changed certain aspects of accounting for stock-based payment awards to employees including the accounting for income taxes and classification on the Consolidated Statements of Cash Flows. The primary impact to Duke Energy as a result of implementing this guidance was a cumulative-effect adjustment to retained earnings for tax benefits not previously recognized and additional income tax expense for the 12 months ended December 31, 2017. See the Duke Energy Consolidated Statements of Changes in Equity for further information.

Goodwill Impairment. In January 2017, the FASB issued revised guidance for the subsequent measurement of goodwill. Under the guidance, a company will recognize an impairment to goodwill for the amount by which a reporting unit’s carrying value exceeds the reporting unit’s fair value, not to exceed the amount of goodwill allocated to that reporting unit. Duke Energy early adopted this guidance for the 2017 annual goodwill impairment test.

The following new accounting standards have been issued, but have not yet been adopted by the Duke Energy Registrants, as of December 31, 2017.

Revenue from Contracts with Customers. In May 2014, the FASB issued revised accounting guidance for revenue recognition from contracts with customers. The core principle of this guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The amendments in this update also require disclosure of sufficient information to allow users to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers.

Duke Energy has identified material revenue streams, which served as the basis for accounting analysis and documentation of the impact of this guidance on revenue recognition. The accounting analysis included reviewing representative contracts and tariffs for each material revenue stream. Most of Duke Energy’s revenue will be in scope of the new guidance. The majority of our sales, including energy provided to residential customers, are from tariff offerings that provide natural gas or electricity without a defined contractual term (“at-will”). For such arrangements, revenue from contracts with customers will be equivalent to the electricity or natural gas supplied and billed in that period (including estimated billings). As such, there will not be a significant shift in the timing or pattern of revenue recognition for such sales.

Also included in the accounting analysis was the evaluation of certain long-term revenue streams including electric wholesale contracts and renewables power purchase agreements (PPAs). For such arrangements, Duke Energy does not expect material changes to the pattern of revenue recognition on the registrants. In addition, Duke Energy has monitored the activities of the power and utilities industry revenue recognition task force including draft accounting positions released in October 2017 and the impact, if any, on Duke Energy’s specific contracts and conclusions. Potential revisions to processes, policies and controls, primarily related to evaluating supplemental disclosures required as a result of adopting this guidance, will be evaluated and implemented as necessary. Some revenue arrangements, such as alternative revenue programs and certain PPAs accounted for as leases, are excluded

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from the scope of the new revenue recognition guidance and, therefore, will be accounted for and evaluated for separate presentation and disclosure under other relevant accounting guidance.

Duke Energy intends to use the modified retrospective method of adoption effective January 1, 2018. Under the modified retrospective method of adoption, prior year reported results are not restated and a cumulative-effect adjustment, if applicable, is recorded to retained earnings at January 1, 2018, as if the standard had always been in effect. In addition, disclosures, if applicable, include a comparison to what would have been reported for 2018 under the previous revenue recognition rules to assist financial statement users in understanding how revenue recognition has changed as a result of this standard and to facilitate comparability with prior year reported results, which are not restated under the modified retrospective approach as described above. Duke Energy will utilize certain practical expedients including applying this guidance to open contracts at the date of adoption and recognizing revenues for certain contracts under the invoice practical expedient, which allows revenue recognition to be consistent with invoiced amounts (including estimated billings) provided certain criteria are met, including consideration of whether the invoiced amounts reasonably represent the value provided to customers. While the adoption of this guidance is not expected to have a material impact on either the timing or amount of revenues recognized in Duke Energy's financial statements, Duke Energy anticipates additional disclosures around the nature, amount, timing and uncertainty of our revenues and cash flows arising from contracts with customers. Duke Energy continues to evaluate what information will be most useful for users of the financial statements, including information already provided in disclosures outside of the financial statement footnotes. These additional disclosures are expected to include the disaggregation of revenues by customer class.

Financial Instruments Classification and Measurement. In January 2016, the FASB issued revised accounting guidance for the classification and measurement of financial instruments. Changes in the fair value of all equity securities will be required to be recorded in net income. Current GAAP allows some changes in fair value for available-for-sale equity securities to be recorded in AOCI. Additional disclosures will be required to present separately the financial assets and financial liabilities by measurement category and form of financial asset. An entity's equity investments that are accounted for under the equity method of accounting are not included within the scope of the new guidance.

For Duke Energy, the revised accounting guidance is effective for interim and annual periods beginning January 1, 2018, by recording a cumulative effect adjustment to retained earnings as of January 1, 2018. This guidance is expected to have minimal impact on the Duke Energy Registrant's Consolidated Statements of Operations and Comprehensive Income as changes in the fair value of most of the Duke Energy Registrants' available-for-sale equity securities are deferred as regulatory assets or liabilities pursuant to accounting guidance for regulated operations.

Leases. In February 2016, the FASB issued revised accounting guidance for leases. The core principle of this guidance is that a lessee should recognize the assets and liabilities that arise from leases on the balance sheet.

For Duke Energy, this guidance is effective for interim and annual periods beginning January 1, 2019. The guidance is applied using a modified retrospective approach. Upon adoption, Duke Energy expects to elect the practical expedients, which would require no reassessment of whether existing contracts are or contain leases as well as no reassessment of lease classification for existing leases. Additionally, we expect to adopt the optional transition practical expedient allowing the entity not to reassess the accounting for land easements that currently exist at the adoption of the lease standard on January 1, 2019. Duke Energy is currently evaluating the financial statement impact of adopting this standard and is continuing to monitor industry implementation issues, including easements, pole attachments and renewable

PPAs. Other than an expected increase in assets and liabilities, the ultimate impact of the new standard has not yet been determined. Significant system enhancements, including additional processes and controls, will be required to facilitate the identification, tracking and reporting of potential leases based upon requirements of the new lease standard. Duke Energy has begun the implementation of a third-party software tool to help with the adoption and ongoing accounting under the new standard.

Statement of Cash Flows. In November 2016, the FASB issued revised accounting guidance to reduce diversity in practice for the presentation and classification of restricted cash on the statement of cash flows. Under the updated guidance, restricted cash and restricted cash equivalents will be included within beginning-of-period and end-of-period cash and cash equivalents on the statement of cash flows.

For Duke Energy, this guidance is effective for the interim and annual periods beginning January 1, 2018. The guidance will be applied using a retrospective transition method to each period presented. Upon adoption by Duke Energy, the revised guidance will result in a change to the amount of cash and cash equivalents and restricted cash explained when reconciling the beginning-of-period and end-of-period total amounts shown on the Consolidated Statement of Cash Flows. Prior to adoption, the Duke Energy Registrants reflect changes in restricted cash within Cash Flows from Investing Activities and within Cash Flows from Operating Activities on the Consolidated Statement of Cash Flows. As a result of this change, our Cash and cash equivalents balance on the Consolidated Statement of Cash Flows as of December 31, 2017 will change by \$147 million.

Retirement Benefits. In March 2017, the FASB issued revised accounting guidance for the presentation of net periodic costs related to benefit plans. Current GAAP permits the aggregation of all the components of net periodic costs on the Consolidated Statement of Operations and does not require the disclosure of the location of net periodic costs on the Consolidated Statement of Operations. Under the amended guidance, the service cost component of net periodic costs must be included within Operating Income within the same line as other compensation expenses. All other components of net periodic costs must be outside of Operating Income. In addition, the updated guidance permits only the service cost component of net periodic costs to be capitalized to Inventory or Property, Plant and Equipment. This represents a change from current GAAP, which permits all components of net periodic costs to be capitalized. These amendments should be applied retrospectively for the presentation of the various components of net periodic costs and prospectively for the change in eligible costs to be capitalized. The guidance allows for a practical expedient that permits a company to use amounts disclosed in prior-period financial statements as the estimation basis for applying the retrospective presentation requirements.

For Duke Energy, this guidance is effective for interim and annual periods beginning January 1, 2018. Duke Energy currently presents the total non-capitalized net periodic costs within Operation, maintenance and other on the Consolidated Statement of Operations. The adoption of this guidance will result in a retrospective change to reclassify the presentation of the non-service cost (benefit) components of net periodic costs to Other income and expenses. Duke Energy intends to utilize the practical expedient for retrospective presentation. The change in net periodic costs eligible for capitalization is applicable prospectively. Since Duke Energy's service cost component is expected to be greater than the total net periodic costs, the change will result in increased capitalization of net periodic costs, higher Operation, maintenance and other and higher Other income and expenses. The resulting impact to Duke Energy is expected to be an immaterial increase in Net Income resulting from the limitation of eligible capitalization of net periodic costs to the service cost component, which is larger than the total net periodic costs.

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2. ACQUISITIONS AND DISPOSITIONS

ACQUISITIONS

The Duke Energy Registrants consolidate assets and liabilities from acquisitions as of the purchase date and include earnings from acquisitions in consolidated earnings after the purchase date.

2016 Acquisition of Piedmont Natural Gas

On October 3, 2016, Duke Energy acquired all outstanding common stock of Piedmont for a total cash purchase price of \$5.0 billion and assumed Piedmont's existing long-term debt, which had a fair value of approximately \$2.0 billion at the time of the acquisition. The acquisition provides a foundation for Duke Energy to establish a broader, long-term strategic natural gas infrastructure platform to complement its existing natural gas pipeline investments and regulated natural gas business in the Midwest. In connection with the closing of the acquisition, Piedmont became a wholly owned subsidiary of Duke Energy.

Purchase Price Allocation

The purchase price allocation of the Piedmont acquisition is as follows:

(in millions)	
Current assets	\$ 497
Property, plant and equipment, net	4,714
Goodwill	3,353
Other long-term assets	804
Total assets	9,368
Current liabilities, including current maturities of long-term debt	576
Long-term liabilities	1,790
Long-term debt	2,002
Total liabilities	4,368
Total purchase price	\$ 5,000

The fair value of Piedmont's assets and liabilities was determined based on significant estimates and assumptions that are judgmental in nature, including the amount and timing of projected future cash flows, discount rates reflecting risk inherent in the future cash flows and market prices of long-term debt.

The majority of Piedmont's operations are subject to the rate-setting authority of the NCUC, the PSCSC and the TPUC and are accounted for pursuant to accounting guidance for regulated operations. The rate-setting and cost recovery provisions currently in place for Piedmont's regulated operations provide revenues derived from costs, including a return on investment of assets and liabilities included in rate base. Thus, the fair value of Piedmont's assets and liabilities subject to these rate-setting provisions approximates the pre-acquisition carrying values and does not reflect any net valuation adjustments.

The significant assets and liabilities for which valuation adjustments were reflected within the purchase price allocation include the acquired equity method investments and long-term debt. The difference between the fair value and the pre-merger carrying values of long-term debt for regulated operations was recorded as a regulatory asset.

The excess of the purchase price over the fair value of Piedmont's assets and liabilities on the acquisition date was recorded as goodwill. The goodwill

reflects the value paid by Duke Energy primarily for establishing a broader, long-term strategic natural gas infrastructure growth platform, an improved risk profile and expected synergies resulting from the combined entities.

Under Securities and Exchange Commission (SEC) regulations, Duke Energy elected not to apply push down accounting to the stand-alone Piedmont financial statements.

Accounting Charges Related to the Acquisition

Duke Energy incurred pretax non-recurring transaction and integration costs associated with the acquisition of \$103 million, \$439 million and \$9 million for the years ended December 31, 2017, 2016 and 2015, respectively. Amounts recorded on the Consolidated Statements of Operations in 2017 were primarily system integration costs of \$71 million related to combining the various operational and financial systems of Duke Energy and Piedmont, including a one-time software impairment resulting from planned accounting system and process integration. A \$7 million charge was recorded within Impairment Charges, with the remaining \$64 million recorded within Operation, maintenance and other.

Amounts recorded in 2016 include:

- Interest expense of \$234 million related to the acquisition financing, including realized losses on forward-starting interest rate swaps of \$190 million. See Note 14 for additional information on the swaps.
- Charges of \$104 million related to commitments made in conjunction with the transaction, including charitable contributions and a one-time bill credit to Piedmont customers. \$10 million was recorded as a reduction in Operating Revenues, with the remaining \$94 million recorded within Operation, maintenance and other.
- Other transaction and integration costs of \$101 million recorded to Operation, maintenance and other, including professional fees and severance.

The majority of transition and integration activities are expected to be completed by the end of 2018.

Pro Forma Financial Information

The following unaudited pro forma financial information reflects the combined results of operations of Duke Energy and Piedmont as if the merger had occurred as of January 1, 2015. The pro forma financial information does not include potential cost savings, intercompany revenues, Piedmont's earnings from a certain equity method investment sold immediately prior to the merger or non-recurring transaction and integration costs incurred by Duke Energy and Piedmont. The after-tax non-recurring transaction and integration costs incurred by Duke Energy and Piedmont were \$279 million and \$19 million for the years ended December 31, 2016, and 2015, respectively.

This information has been presented for illustrative purposes only and is not necessarily indicative of the consolidated results of operations that would have been achieved or the future consolidated results of operations of Duke Energy.

(in millions)	Years Ended December 31,	
	2016	2015
Operating Revenues	\$ 23,504	\$23,570
Net Income Attributable to Duke Energy Corporation	2,442	2,877

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Piedmont's Earnings

Piedmont's revenues and net income included in Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2016, were \$367 million and \$20 million, respectively. Piedmont's revenues and net income for the year ended December 31, 2016, include the impact of non-recurring transaction costs of \$10 million and \$46 million, respectively.

Acquisition Related Financings and Other Matters

Duke Energy financed the Piedmont acquisition with a combination of debt and equity issuances and other cash sources, including:

- \$3.75 billion of long-term debt issued in August 2016.
- \$750 million borrowed under the \$1.5 billion short-term loan facility in September 2016, which was repaid in December 2016.
- 10.6 million shares of common stock issued in October 2016 for net cash proceeds of approximately \$723 million.

The \$4.9 billion senior unsecured bridge financing facility (Bridge Facility) with Barclays Capital, Inc. (Barclays) was terminated following the issuance of the long-term debt. For additional information related to the debt and equity issuances, see Notes 6 and 18, respectively. For additional information regarding Duke Energy's and Piedmont's joint investment in Atlantic Coast Pipeline, LLC (ACP), see Note 4.

DISPOSITIONS

For the year ended December 31, 2017, the Loss from Discontinued Operations, net of tax, was immaterial. The following table summarizes the (Loss) Income from Discontinued Operations, net of tax recorded on Duke Energy's Consolidated Statements of Operations for the years ended December 31, 2016, and 2015:

(in millions)	Years Ended December 31,	
	2016	2015
International Energy Disposal Group	\$ (534)	\$ 157
Midwest Generation Disposal Group	36	33
Other ^(a)	90	(13)
(Loss) Income from Discontinued Operations, net of tax	\$ (408)	\$ 177

(a) Relates to previously sold businesses not related to the Disposal Groups. The amount for 2016 represents an income tax benefit resulting from immaterial out of period deferred tax liability adjustments. The amount for 2015 includes indemnifications provided for certain legal, tax and environmental matters and foreign currency translation adjustments.

2016 Sale of International Energy

In February 2016, Duke Energy announced it had initiated a process to divest its International Energy businesses, excluding the equity method investment in NMC (the International Disposal Group), and in October 2016, announced it had entered into two separate purchase and sale agreements to execute the divestiture. Both sales closed in December of 2016, resulting in available cash proceeds of \$1.9 billion, excluding transaction costs. Proceeds were primarily used to reduce Duke Energy holding company (the parent) debt. Existing favorable tax attributes result in no immediate U.S. federal-level cash tax impacts. Details of each transaction are as follows:

- On December 20, 2016, Duke Energy closed on the sale of its ownership interests in businesses in Argentina, Chile, Ecuador, El Salvador, Guatemala and Peru to I Squared Capital. The assets sold included approximately 2,230 MW of hydroelectric and natural gas generation capacity, transmission infrastructure and natural gas processing facilities. I Squared Capital purchased the businesses for an enterprise value of \$1.2 billion.
- On December 29, 2016, Duke Energy closed on the sale of its Brazilian business, which included approximately 2,090 MW of hydroelectric generation capacity, to CTG for an enterprise value of \$1.2 billion. With the closing of the CTG deal, Duke Energy finalized its exit from the Latin American market.

Assets Held For Sale and Discontinued Operations

As a result of the transactions, the International Disposal Group was classified as held for sale and as discontinued operations in the fourth quarter of 2016. Interest expense directly associated with the International Disposal Group was allocated to discontinued operations. No interest from corporate level debt was allocated to discontinued operations.

The following table presents the results of the International Disposal Group for the years ended December 31, 2016, and 2015, which are included in (Loss) Income from Discontinued Operations, net of tax in Duke Energy's Consolidated Statements of Operations.

(in millions)	Years Ended December 31,	
	2016	2015
Operating Revenues	\$ 988	\$ 1,088
Fuel used in electric generation and purchased power	227	306
Cost of natural gas	43	53
Operation, maintenance and other	341	334
Depreciation and amortization ^(a)	62	92
Property and other taxes	15	7
Impairment charges ^(b)	194	13
(Loss) Gains on Sales of Other Assets and Other, net	(3)	6
Other Income and Expenses, net	58	23
Interest Expense	82	85
Pretax loss on disposal ^(c)	(514)	—
(Loss) Income before income taxes ^(d)	(435)	227
Income tax expense ^{(e)(f)}	99	70
(Loss) Income from discontinued operations of the International Disposal Group	\$ (534)	\$ 157

- (a) Upon meeting the criteria for assets held for sale, beginning in the fourth quarter of 2016 depreciation expense was ceased.
- (b) In conjunction with the advancements of marketing efforts during 2016, Duke Energy performed recoverability tests of the long-lived asset groups of International Energy. As a result, Duke Energy determined the carrying value of certain assets in Central America was not fully recoverable and recorded a pretax impairment charge of \$194 million. The charge represents the excess of carrying value over the estimated fair value of the assets, which was based on a Level 3 Fair Value measurement that was primarily determined from the income approach using discounted cash flows but also considered market information obtained in 2016.
- (c) The pretax loss on disposal includes the recognition of cumulative foreign currency translation losses of \$620 million as of the disposal date. See the Consolidated Statements of Changes in Equity for additional information.
- (d) Pretax (Loss) Income attributable to Duke Energy Corporation was \$(445) million and \$221 million for the years ended December 31, 2016 and 2015, respectively.
- (e) 2016 amount includes \$126 million of income tax expense on the disposal, which primarily reflects in-country taxes incurred as a result of the sale. The after-tax loss on disposal was \$640 million.
- (f) 2016 amount includes an income tax benefit of \$95 million. See Note 22, "Income Taxes," for additional information.

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy has elected not to separately disclose discontinued operations on the Consolidated Statements of Cash Flows. The following table summarizes Duke Energy's cash flows from discontinued operations related to the International Disposal Group.

(in millions)	Years Ended December 31,	
	2016	2015
Cash flows provided by (used in):		
Operating activities	\$ 204	\$ 248
Investing activities	(434)	177

Other Sale Related Matters

During 2017, Duke Energy provided certain transition services to CTG and I Squared Capital. Cash flows related to providing the transition services were not material as of December 31, 2017. All transition services related to the International Disposal Group ended in 2017. Additionally, Duke Energy will reimburse CTG and I Squared Capital for all tax obligations arising from the period preceding consummation on the transactions, totaling approximately \$78 million. Duke Energy has not recorded any other liabilities, contingent liabilities or indemnifications related to the International Disposal Group.

2015 Midwest Generation Exit

Duke Energy, through indirect subsidiaries, completed the sale of the Midwest Generation Disposal Group to a subsidiary of Dynegy on April 2, 2015, for approximately \$2.8 billion in cash. The nonregulated Midwest generation business included generation facilities with approximately 5,900 MW of owned capacity located in Ohio, Pennsylvania and Illinois. On April 1, 2015, prior to the sale, Duke Energy Ohio distributed its indirect ownership interest in the nonregulated Midwest generation business to a subsidiary of Duke Energy Corporation.

Duke Energy utilized a revolving credit agreement (RCA) to support the operations of the nonregulated Midwest generation business. Duke Energy Ohio had a power purchase agreement with the Midwest Generation Disposal Group for a portion of its standard service offer (SSO) supply requirement. The agreement and the SSO expired in May 2015.

The results of operations of the Midwest Generation Disposal Group prior to the date of sale are classified as discontinued operations in the accompanying Consolidated Statements of Operations. Interest expense associated with the RCA was allocated to discontinued operations. No other interest expense related to corporate level debt was allocated to discontinued operations. Certain immaterial costs that were eliminated as a result of the sale remained in continuing operations. The following table summarizes the Midwest Generation Disposal Group activity recorded within discontinued operations.

(in millions)	Duke Energy		Duke Energy Ohio	
	Years Ended December 31,		Years Ended December 31,	
	2016	2015	2016	2015
Operating Revenues	\$ —	\$ 543	\$ —	\$ 412
Pretax Loss on disposal ^(a)	—	(45)	—	(52)
Income (loss) before income taxes ^(b)	\$ —	\$ 59	\$ —	\$ 44
Income tax (benefit) expense ^(c)	(36)	26	(36)	21
Income (loss) from discontinued operations	\$ 36	\$ 33	\$ 36	\$ 23

(a) The Loss on disposal includes impairments recorded to adjust the carrying amount of the assets to the estimated fair value of the business, based on the selling price to Dynegy less cost to sell.

(b) 2015 amounts include the impact of an \$81 million charge for the settlement agreement reached in a lawsuit related to the Midwest Generation Disposal Group. Refer to Note 5 for further information about the lawsuit.

(c) 2016 amounts result from immaterial out of period deferred tax liability adjustments.

3. BUSINESS SEGMENTS

Operating segments are determined based on information used by the chief operating decision-maker in deciding how to allocate resources and evaluate the performance of the business. Duke Energy evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income, as discussed below, includes intercompany revenues and expenses that are eliminated on the Consolidated Financial Statements. Certain governance costs are allocated to each segment. In addition, direct interest expense and income taxes are included in segment income.

Products and services are sold between affiliate companies and reportable segments of Duke Energy at cost. Segment assets as presented in the tables that follow exclude all intercompany assets.

DUKE ENERGY

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

The Electric Utilities and Infrastructure segment includes Duke Energy's regulated electric utilities in the Carolinas, Florida and the Midwest. The regulated electric utilities conduct operations through the Subsidiary Registrants that are substantially all regulated and, accordingly, qualify for regulatory accounting treatment. Electric Utilities and Infrastructure also includes Duke Energy's commercial electric transmission infrastructure investments.

The Gas Utilities and Infrastructure segment includes Piedmont, Duke Energy's natural gas local distribution companies in Ohio and Kentucky, and Duke Energy's natural gas storage and midstream pipeline investments. Gas Utilities and Infrastructure's operations are substantially all regulated and, accordingly, qualify for regulatory accounting treatment.

The Commercial Renewables segment is primarily comprised of nonregulated utility scale wind and solar generation assets located throughout the U.S.

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Combined Notes to Consolidated Financial Statements – (Continued)

The remainder of Duke Energy's operations is presented as Other, which is primarily comprised of corporate interest expense, unallocated corporate costs, contributions to the Duke Energy Foundation and the operations of Duke Energy's wholly owned captive insurance subsidiary, Bison Insurance Company Limited (Bison). Other also includes Duke Energy's interest in NMC. See Note 12 for additional information on the investment in NMC.

Business segment information is presented in the following tables. Segment assets presented exclude intercompany assets.

(in millions)	Year Ended December 31, 2017						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 21,300	\$ 1,743	\$ 460	\$ 23,503	\$ 62	\$ —	\$ 23,565
Intersegment Revenues	31	93	—	124	76	(200)	—
Total Revenues	\$ 21,331	\$ 1,836	\$ 460	\$ 23,627	\$ 138	\$ (200)	\$ 23,565
Interest Expense	\$ 1,240	\$ 105	\$ 87	\$ 1,432	\$ 574	\$ (20)	\$ 1,986
Depreciation and amortization	3,010	231	155	3,396	131	—	3,527
Equity in earnings (losses) of unconsolidated affiliates	5	62	(5)	62	57	—	119
Income tax expense (benefit) ^(a)	1,355	116	(628)	843	353	—	1,196
Segment income (loss) ^{(b)(c)(d)}	3,210	319	441	3,970	(905)	—	3,065
Add back noncontrolling interest component							5
Loss from discontinued operations, net of tax							(6)
Net income							\$ 3,064
Capital investments expenditures and acquisitions	\$ 7,024	\$ 907	\$ 92	\$ 8,023	\$ 175	\$ —	\$ 8,198
Segment assets	119,423	11,462	4,156	135,041	2,685	188	137,914

- (a) All segments include impacts of the Tax Cuts and Jobs Act (the Tax Act). Electric Utilities and Infrastructure includes a \$231 million benefit, Gas Utilities and Infrastructure includes a \$26 million benefit, Commercial Renewables includes a \$442 million benefit and Other includes charges of \$597 million.
(b) Electric Utilities and Infrastructure includes after-tax regulatory settlement charges of \$98 million. See Note 4 for additional information.
(c) Commercial Renewables includes after-tax impairment charges of \$74 million related to certain wind projects and the Energy Management Solutions reporting unit. See Notes 10 and 11 for additional information.
(d) Other includes \$64 million of after-tax costs to achieve the Piedmont merger. See Note 2 for additional information.

(in millions)	Year Ended December 31, 2016						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 21,336	\$ 875	\$ 484	\$ 22,695	\$ 48	\$ —	\$ 22,743
Intersegment Revenues	30	26	—	56	69	(125)	—
Total Revenues	\$ 21,366	\$ 901	\$ 484	\$ 22,751	\$ 117	\$ (125)	\$ 22,743
Interest Expense	\$ 1,136	\$ 46	\$ 53	\$ 1,235	\$ 693	\$ (12)	\$ 1,916
Depreciation and amortization	2,897	115	130	3,142	152	—	3,294
Equity in earnings (losses) of unconsolidated affiliates ^(a)	5	19	(82)	(58)	43	—	(15)
Income tax expense (benefit)	1,672	90	(160)	1,602	(446)	—	1,156
Segment income (loss) ^{(b)(c)}	3,040	152	23	3,215	(645)	1	2,571
Add back noncontrolling interest component							7
Loss from discontinued operations, net of tax ^(d)							(408)
Net income							\$ 2,170
Capital investments expenditures and acquisitions ^(e)	\$ 6,649	\$ 5,519	\$ 857	\$ 13,025	\$ 190	\$ —	\$ 13,215
Segment assets	114,993	10,760	4,377	130,130	2,443	188	132,761

- (a) Commercial Renewables includes a pretax impairment charge of \$71 million. See Note 12 for additional information.
(b) Other includes \$329 million of after-tax costs to achieve mergers. Refer to Note 2 for additional information on costs related to the Piedmont merger.
(c) Other includes after-tax charges of \$57 million related to cost savings initiatives. Refer to Note 19 for further information.
(d) Includes a loss on sale of the International Disposal Group. Refer to Note 2 for further information.
(e) Other includes \$26 million of capital investments expenditures related to the International Disposal Group. Gas Utilities and Infrastructure includes the Piedmont acquisition of \$5 billion. Refer to Note 2 for more information on the Piedmont acquisition.

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2015						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 21,489	\$ 536	\$ 286	\$ 22,311	\$ 60	\$ —	\$ 22,371
Intersegment Revenues	32	5	—	37	75	(112)	—
Total Revenues	\$ 21,521	\$ 541	\$ 286	\$ 22,348	\$ 135	\$ (112)	\$ 22,371
Interest Expense	\$ 1,074	\$ 25	\$ 44	\$ 1,143	\$ 393	\$ (9)	\$ 1,527
Depreciation and amortization	2,735	79	104	2,918	135	—	3,053
Equity in (losses) earnings of unconsolidated affiliates	(2)	1	(6)	(7)	76	—	69
Income tax expense (benefit)	1,602	44	(128)	1,518	(262)	—	1,256
Segment income (loss) ^{(a)(b)(c)}	2,819	73	52	2,944	(299)	—	2,645
Add back noncontrolling interest component							9
Income from discontinued operations, net of tax ^(d)							177
Net income							\$ 2,831
Capital investments expenditures and acquisitions ^(e)	\$ 6,852	\$ 234	\$ 1,019	\$ 8,105	\$ 258	\$ —	\$ 8,363
Segment assets ^(f)	109,097	2,637	3,861	115,595	5,373	188	121,156

(a) Electric Utilities and Infrastructure includes an after-tax charge of \$58 million related to the Edwardsport settlement. Refer to Note 4 for further information.

(b) Other includes \$60 million of after-tax costs to achieve mergers.

(c) Other includes after-tax charges of \$77 million related to cost savings initiatives. Refer to Note 19 for further information.

(d) Includes the impact of a settlement agreement reached in a lawsuit related to the Midwest Generation Disposal Group. Refer to Note 5 for further information related to the lawsuit and Note 2 for further information on discontinued operations.

(e) Other includes capital investment expenditures of \$45 million related to the International Disposal Group.

(f) Other includes Assets Held for Sale balances related to the International Disposal Group. Refer to Note 2 for further information.

Geographical Information

For the years ended December 31, 2017, 2016 and 2015, all assets and revenues from continuing operations are within the U.S.

Major Customers

For the year ended December 31, 2017, revenues from one customer of Duke Energy Progress are \$521 million. Duke Energy Progress has one reportable segment, Electric Utilities and Infrastructure. No other subsidiary registrant has an individual customer representing more than 10 percent of its revenues.

Products and Services

The following table summarizes revenues of the reportable segments by type.

(in millions)	Retail Electric	Wholesale Electric	Retail Natural Gas	Other	Total Revenues
2017					
Electric Utilities and Infrastructure	\$ 18,177	\$ 2,104	\$ —	\$ 1,050	\$ 21,331
Gas Utilities and Infrastructure	—	—	1,732	104	1,836
Commercial Renewables	—	375	—	85	460
Total Reportable Segments	\$ 18,177	\$ 2,479	\$ 1,732	\$ 1,239	\$ 23,627
2016					
Electric Utilities and Infrastructure	\$ 18,338	\$ 2,095	\$ —	\$ 933	\$ 21,366
Gas Utilities and Infrastructure	—	—	871	30	901
Commercial Renewables	—	303	—	181	484
Total Reportable Segments	\$ 18,338	\$ 2,398	\$ 871	\$ 1,144	\$ 22,751
2015					
Electric Utilities and Infrastructure	\$ 18,695	\$ 2,014	\$ —	\$ 812	\$ 21,521
Gas Utilities and Infrastructure	—	—	546	(5)	541
Commercial Renewables	—	245	—	41	286
Total Reportable Segments	\$ 18,695	\$ 2,259	\$ 546	\$ 848	\$ 22,348

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Ohio

Duke Energy Ohio has two reportable operating segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure.

Electric Utilities and Infrastructure transmits and distributes electricity in portions of Ohio and generates, distributes and sells electricity in portions of Northern Kentucky. Gas Utilities and Infrastructure transports and sells natural gas in portions of Ohio and Northern Kentucky. It conducts operations primarily through Duke Energy Ohio and its wholly owned subsidiary, Duke Energy Kentucky.

The remainder of Duke Energy Ohio's operations is presented as Other, which is primarily comprised of governance costs allocated by its parent, Duke Energy, and revenues and expenses related to Duke Energy Ohio's contractual arrangement to buy power from OVEC's (Ohio Valley Electric Corporation) power plants. See Note 13 for additional information on related party transactions. For the years ended December 31, 2017, 2016 and 2015, all Duke Energy Ohio assets and revenues are within the U.S.

(in millions)	Year Ended December 31, 2017					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,373	\$ 508	\$ 1,881	\$ 42	\$ —	\$ 1,923
Interest expense	\$ 62	\$ 28	\$ 90	\$ 1	\$ —	\$ 91
Depreciation and amortization	178	83	261	—	—	261
Income tax expense (benefit)	40	39	79	(20)	—	59
Segment income (loss)	138	85	223	(30)	—	193
Loss from discontinued operations, net of tax						(1)
Net income						\$ 192
Capital expenditures	\$ 491	\$ 195	\$ 686	\$ —	\$ —	\$ 686
Segment assets	5,066	2,758	7,824	66	(15)	7,875

(in millions)	Year Ended December 31, 2016					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,410	\$ 503	\$ 1,913	\$ 31	\$ —	\$ 1,944
Interest expense	\$ 58	\$ 27	\$ 85	\$ 1	\$ —	\$ 86
Depreciation and amortization	151	80	231	2	—	233
Income tax expense (benefit)	55	44	99	(21)	—	78
Segment income (loss)	154	77	231	(39)	—	192
Income from discontinued operations, net of tax						36
Net income						\$ 228
Capital expenditures	\$ 322	\$ 154	\$ 476	\$ —	\$ —	\$ 476
Segment assets	4,782	2,696	7,478	62	(12)	7,528

(in millions)	Year Ended December 31, 2015					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,331	\$ 541	\$ 1,872	\$ 33	\$ —	\$ 1,905
Interest expense	\$ 53	\$ 25	\$ 78	\$ 1	\$ —	\$ 79
Depreciation and amortization	147	79	226	1	—	227
Income tax expense (benefit)	59	45	104	(23)	—	81
Segment income (loss)	118	73	191	(41)	(1)	149
Income from discontinued operations, net of tax						23
Net income						\$ 172
Capital expenditures	\$ 264	\$ 135	\$ 399	\$ —	\$ —	\$ 399
Segment assets	4,534	2,516	7,050	56	(9)	7,097

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Combined Notes to Consolidated Financial Statements – (Continued)

4. REGULATORY MATTERS

REGULATORY ASSETS AND LIABILITIES

The Duke Energy Registrants record regulatory assets and liabilities that result from the ratemaking process. See Note 1 for further information.
The following tables present the regulatory assets and liabilities recorded on the Consolidated Balance Sheets of Duke Energy and Progress Energy. See separate tables below for balances by individual registrant.

(in millions)	Duke Energy		Progress Energy	
	December 31,		December 31,	
	2017	2016	2017	2016
Regulatory Assets				
AROs – coal ash	\$ 4,025	\$ 3,761	\$1,984	\$1,830
AROs – nuclear and other	852	684	655	569
Accrued pension and OPEB	2,249	2,387	906	882
Retired generation facilities	480	534	386	422
Debt fair value adjustment	1,197	1,313	—	—
Net regulatory asset related to income taxes	—	894	—	231
Storm cost deferrals	531	153	526	148
Nuclear asset securitized balance, net	1,142	1,193	1,142	1,193
Hedge costs deferrals	234	217	94	91
Derivatives – natural gas supply contracts	142	187	—	—
Demand side management (DSM)/Energy efficiency (EE)	530	407	281	278
Grid modernization	39	65	—	—
Vacation accrual	213	196	42	38
Deferred fuel and purchased power	507	156	349	111
Nuclear deferral	119	226	35	134
Post-in-service carrying costs (PISCC) and deferred operating expenses	366	413	38	42
Transmission expansion obligation	46	71	—	—
Manufactured gas plant (MGP)	91	99	—	—
Advanced metering infrastructure (AMI)	362	218	150	—
NCEMPA deferrals	53	51	53	51
East Bend deferrals	45	32	—	—
Deferred pipeline integrity costs	54	36	—	—
Amounts due from customers	64	66	—	—
Other	538	542	110	103
Total regulatory assets	13,879	13,901	6,751	6,123
Less: current portion	1,437	1,023	741	401
Total noncurrent regulatory assets	\$12,442	\$12,878	\$6,010	\$5,722
Regulatory Liabilities				
Costs of removal	\$ 5,968	\$ 5,613	\$2,537	\$2,198
ARO – nuclear and other	806	461	—	—
Net regulatory liability related to income taxes	8,113	—	2,802	—
Amounts to be refunded to customers	10	45	—	—
Storm reserve	20	83	—	60
Accrued pension and OPEB	146	174	—	—
Deferred fuel and purchased power	47	192	1	81
Other	622	722	179	245
Total regulatory liabilities	15,732	7,290	5,519	2,584
Less: current portion	402	409	213	189
Total noncurrent regulatory liabilities	\$15,330	\$ 6,881	\$5,306	\$2,395

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Combined Notes to Consolidated Financial Statements – (Continued)

Descriptions of regulatory assets and liabilities summarized in the tables above and below follow. See tables below for recovery and amortization periods at the separate registrants.

AROs – coal ash. Represents deferred depreciation and accretion related to the legal obligation to close ash basins. The costs are deferred until recovery treatment has been determined. See Notes 1 and 9 for additional information.

AROs – nuclear and other. Represents regulatory assets or liabilities, including deferred depreciation and accretion, related to legal obligations associated with the future retirement of property, plant and equipment, excluding amounts related to coal ash. The AROs relate primarily to decommissioning nuclear power facilities. The amounts also include certain deferred gains and losses on NDTF investments. See Notes 1 and 9 for additional information.

Accrued pension and OPEB. Accrued pension and other post-retirement benefit obligations (OPEB) represent regulatory assets and liabilities related to each of the Duke Energy Registrants' respective shares of unrecognized actuarial gains and losses and unrecognized prior service cost and credit attributable to Duke Energy's pension plans and OPEB plans. The regulatory asset or liability is amortized with the recognition of actuarial gains and losses and prior service cost and credit to net periodic benefit costs for pension and OPEB plans. The accrued pension and OPEB regulatory asset is expected to be recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

Retired generation facilities. Represents amounts to be recovered for facilities that have been retired and are probable of recovery.

Debt fair value adjustment. Purchase accounting adjustments recorded to state the carrying value of Progress Energy and Piedmont at fair value in connection with the 2012 and 2016 mergers, respectively. Amount is amortized over the life of the related debt.

Net regulatory asset or liability related to income taxes. Amounts for all registrants include regulatory liabilities related primarily to impacts from the Tax Act. See Note 22 for additional information. Amounts have no immediate impact on rate base as regulatory assets are offset by deferred tax liabilities.

Storm cost deferrals. Represents deferred incremental costs incurred related to extraordinary weather-related events.

Nuclear asset securitized balance, net. Represents the balance associated with Crystal River Unit 3 retirement approved for recovery by the FPSC on September 15, 2015, and the upfront financing costs securitized in 2016 with issuance of the associated bonds. The regulatory asset balance is net of the AFUDC equity portion.

Hedge costs and other deferrals. Amounts relate to unrealized gains and losses on derivatives recorded as a regulatory asset or liability, respectively, until the contracts are settled.

Derivatives – natural gas supply contracts. Represents costs for certain long-dated, fixed quantity forward gas supply contracts, which are recoverable through PGA clauses.

DSM/EE. Deferred costs related to various DSM and EE programs recoverable through various mechanisms.

Grid modernization. Amounts represent deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Vacation accrual. Generally recovered within one year.

Deferred fuel and purchased power. Represents certain energy-related costs that are recoverable or refundable as approved by the applicable regulatory body.

Nuclear deferral. Includes amounts related to leveling nuclear plant outage costs, which allows for the recognition of nuclear outage expenses over the refueling cycle rather than when the outage occurs, resulting in the deferral of operations and maintenance costs associated with refueling.

Post-in-service carrying costs and deferred operating expenses. Represents deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Gasification services agreement buyout. The IURC authorized Duke Energy Indiana to recover costs incurred to buy out a gasification services agreement, including carrying costs through 2017.

Transmission expansion obligation. Represents transmission expansion obligations related to Duke Energy Ohio's withdrawal from Midcontinent Independent System Operator, Inc. (MISO).

MGP. Represents remediation costs incurred at former MGP sites and the deferral of costs to be incurred at the East End and West End sites through 2019.

AMI. Represents deferred costs related to the installation of AMI meters and remaining net book value of non-AMI meters to be replaced at Duke Energy Carolinas, net book value of existing meters at Duke Energy Florida, Duke Energy Progress and Duke Energy Ohio and expected future recovery of net book value of electromechanical meters that have been replaced with AMI meters at Duke Energy Indiana.

NCEMPA deferrals. Represents retail allocated cost deferrals and returns associated with the additional ownership interest in assets acquired from NCEMPA in 2015.

East Bend deferrals. Represents both deferred operating expenses and deferred depreciation as well as carrying costs on the portion of East Bend Generating Station (East Bend) that was acquired from Dayton Power and Light and that had been previously operated as a jointly owned facility.

Deferred pipeline integrity costs. Represents pipeline integrity management costs in compliance with federal regulations recovered through a rider mechanism.

Amounts due from customers. Relates primarily to margin decoupling and IMR recovery mechanisms.

Costs of removal. Represents funds received from customers to cover the future removal of property, plant and equipment from retired or abandoned sites as property is retired. Also includes certain deferred gains on NDTF investments.

Amounts to be refunded to customers. Represents required rate reductions to retail customers by the applicable regulatory body.

Storm reserve. Amounts are used to offset future incurred costs for named storms as approved by regulatory commissions.

RESTRICTIONS ON THE ABILITY OF CERTAIN SUBSIDIARIES TO MAKE DIVIDENDS, ADVANCES AND LOANS TO DUKE ENERGY

As a condition to the approval of merger transactions, the NCUC, PSCSC, PUCO, KPSC and IURC imposed conditions on the ability of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Kentucky, Duke Energy Indiana and Piedmont to transfer funds to Duke Energy through loans or advances, as well as restricted amounts available to pay dividends to Duke Energy. Certain subsidiaries may transfer funds to the parent by obtaining approval of the respective state regulatory commissions. These conditions imposed restrictions on the ability of the public utility subsidiaries to pay cash dividends as discussed below.

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Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures, which, in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Amounts restricted as a result of these provisions were not material at December 31, 2017.

Additionally, certain other subsidiaries of Duke Energy have restrictions on their ability to dividend, loan or advance funds to Duke Energy due to specific legal or regulatory restrictions, including, but not limited to, minimum working capital and tangible net worth requirements.

The restrictions discussed below were less than 25 percent of Duke Energy's and Progress Energy's net assets at December 31, 2017.

Duke Energy Carolinas

Duke Energy Carolinas must limit cumulative distributions subsequent to mergers to (i) the amount of retained earnings on the day prior to the closing of the mergers, plus (ii) any future earnings recorded.

Duke Energy Progress

Duke Energy Progress must limit cumulative distributions subsequent to the mergers between Duke Energy and Progress Energy and Duke Energy and Piedmont to (i) the amount of retained earnings on the day prior to the closing of the respective mergers, plus (ii) any future earnings recorded.

Duke Energy Ohio

Duke Energy Ohio will not declare and pay dividends out of capital or unearned surplus without the prior authorization of the PUCO. Duke Energy Ohio received FERC and PUCO approval to pay dividends from its equity accounts that are reflective of the amount that it would have in its retained earnings account had push-down accounting for the Cinergy Corp. (Cinergy) merger not been applied to Duke Energy Ohio's balance sheet. The conditions include a commitment from Duke Energy Ohio that equity, adjusted to remove the impacts of push-down accounting, will not fall below 30 percent of total capital.

Duke Energy Kentucky is required to pay dividends solely out of retained earnings and to maintain a minimum of 35 percent equity in its capital structure.

Duke Energy Indiana

Duke Energy Indiana must limit cumulative distributions subsequent to the merger between Duke Energy and Cinergy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded. In addition, Duke Energy Indiana will not declare and pay dividends out of capital or unearned surplus without prior authorization of the IURC.

Piedmont

Piedmont must limit cumulative distributions subsequent to the acquisition of Piedmont by Duke Energy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded.

RATE RELATED INFORMATION

The NCUC, PSCSC, FPSC, IURC, PUCO, TPUC and KPSC approve rates for retail electric and natural gas services within their states. The FERC approves rates for electric sales to wholesale customers served under cost-based rates (excluding Ohio and Indiana), as well as sales of transmission service. The FERC also regulates certification and siting of new interstate natural gas pipeline projects.

All Registrants

Tax Act Impacts

On December 22, 2017, President Trump signed the Tax Act into law, which, among other provisions, reduces the maximum federal corporate income tax rate from 35 percent to 21 percent, effective January 1, 2018. As a result of the Tax Act, the Subsidiary Registrants revalued their deferred tax assets and deferred tax liabilities, as of December 31, 2017, to account for the future impact of lower corporate tax rates on these deferred tax amounts. For the Subsidiary Registrants regulated operations, where the reduction is expected to be accounted for and applied to customers' rates in future commission proceedings, including rate proceedings, the net remeasurement has been deferred as a regulatory liability. Each of the Subsidiary Registrant's regulatory commissions is reviewing the Tax Act to determine the potential impacts on customer rates. Beginning in January 2018, the Subsidiary Registrants will defer the estimated ongoing impacts of the Tax Act that are expected to be returned to customers. See Note 22 for additional information.

Duke Energy Carolinas and Duke Energy Progress

Ash Basin Closure Costs Deferral

On December 30, 2016, Duke Energy Carolinas and Duke Energy Progress filed a joint petition with the NCUC seeking an accounting order authorizing deferral of certain costs incurred in connection with federal and state environmental remediation requirements related to the permanent closure of ash basins and other ash storage units at coal-fired generating facilities that have provided or are providing generation to customers located in North Carolina. Initial comments were received in March 2017, and reply comments were filed on April 19, 2017. The NCUC has consolidated Duke Energy Carolinas' and Duke Energy Progress' coal ash deferral requests into their respective general rate case dockets for decision. See "2017 North Carolina Rate Case" sections below for additional discussion. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

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Duke Energy Carolinas

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Carolinas' Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs - coal ash	\$ 1,645	\$ 1,536	(b)	(b)
AROs - nuclear and other	—	9		
Accrued pension and OPEB	410	481		(c)
Retired generation facilities ^(d)	29	39	X	2023
Net regulatory asset related to income taxes ^(d)	—	484		
Hedge costs deferrals ^(e)	109	93	X	2041
DSM/EE	210	122	(b)	(h)
Vacation accrual	83	76	(e)	2018
Deferred fuel and purchased power	140	—	(b)	2018
Nuclear deferral	84	92		2019
PISCC ^(g)	35	70	X	(b)
AMI	185	172	X	(b)
Other	222	223		(b)
Total regulatory assets	3,152	3,397		
Less: current portion	299	238		
Total noncurrent regulatory assets	\$ 2,853	\$ 3,159		
Regulatory Liabilities^(a)				
Costs of removal ^(c)	\$ 2,054	\$ 2,015	X	(b)
ARO - nuclear and other	806	461		(b)
Net regulatory liability related to income taxes ^(d)	3,028	—		(b)
Storm reserve ^(e)	20	22		(b)
Accrued pension and OPEB	44	46		(c)
Deferred fuel and purchased power	46	105	(b)	2018
Other	359	352		(b)
Total regulatory liabilities	6,357	3,001		
Less: current portion	126	161		
Total noncurrent regulatory liabilities	\$ 6,231	\$ 2,840		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Includes regulatory liabilities related to the change in the North Carolina tax rate discussed in Note 22.
(e) Earns a return on outstanding balance in North Carolina.
(f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
(g) Recovered over the life of the associated assets.
(h) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.
(i) Earns a debt return on coal ash expenditures for North Carolina and South Carolina retail customers.
(j) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

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2017 North Carolina Rate Case

On August 25, 2017, Duke Energy Carolinas filed an application with the NCUC for a rate increase for retail customers of approximately \$647 million, which represents an approximate 13.6 percent increase in annual base revenues. The rate increase is driven by capital investments subsequent to the previous base rate case, including grid improvement projects, AMI, investments in customer service technologies, costs of complying with coal combustion residuals (CCR) regulations and the North Carolina Coal Ash Management Act of 2014 (Coal Ash Act) and recovery of costs related to licensing and development of the William States Lee III Nuclear Station (Lee Nuclear Station) discussed below. On January 23, 2018, the North Carolina Public Staff filed testimony recommending an overall rate decrease of approximately \$290 million. An evidentiary hearing is scheduled to begin on February 27, 2018, and a decision and revised customer rates are expected by mid-2018. Duke Energy Carolinas cannot predict the outcome of this matter.

FERC Formula Rate Matter

On July 31, 2017, Piedmont Municipal Power Agency (PMPA) filed a complaint with FERC against Duke Energy Carolinas alleging that Duke Energy Carolinas misapplied the formula rate under the purchase power agreement (PPA) between the parties by including regulatory amortization in its rates without FERC approval. Duke Energy Carolinas disagreed with PMPA as it believed it was properly applying its FERC filed rate. On February 15, 2018, FERC issued an order ruling in favor of PMPA and ordered Duke Energy Carolinas to refund to PMPA all amounts improperly collected under the PPA. Resolution of this matter is not expected to be material.

Lincoln County Combustion Turbine

On December 7, 2017, the NCUC issued an order approving a Certificate of Public Convenience and Necessity (CPCN) for Duke Energy Carolinas' proposed 402-megawatt (MW) simple cycle, advanced combustion turbine natural gas-fueled electric generating unit at its existing Lincoln County site. The CPCN also includes construction of related transmission and natural gas pipeline interconnection facilities. Construction is scheduled to begin in 2018 with an extended commissioning and validation period from 2020-2024 and an estimated commercial operation date in 2024. As a condition of the approval, Duke Energy Carolinas will not seek recovery of costs associated with the project until it is placed into commercial operation.

Advanced Metering Infrastructure Deferral

On July 12, 2016, the PSCSC issued an accounting order for Duke Energy Carolinas to defer the financial effects of depreciation expense incurred for the installation of AMI meters, the carrying costs on the investment at its weighted average cost of capital (WACC) and the carrying costs on the deferred costs at its WACC not to exceed \$45 million. The decision also allows Duke Energy Carolinas to continue to depreciate the non-AMI meters to be replaced. Current retail rates will not change as a result of the decision and the ability of interested parties to challenge the reasonableness of expenditures in subsequent proceedings is not limited.

William States Lee Combined Cycle Facility

On April 9, 2014, the PSCSC granted Duke Energy Carolinas and North Carolina Electric Membership Corporation (NCEMC) a Certificate of Environmental Compatibility and Public Convenience and Necessity (CECPCN) for the construction and operation of a 750-MW combined-cycle natural gas-fired generating plant at Duke Energy Carolinas' existing William States Lee Generating Station in Anderson, South Carolina. Duke Energy Carolinas began construction in July 2015 and estimates a cost to build of \$600 million for its share of the facility, including allowance for funds used during construction (AFUDC). The project is expected to be commercially available in the first quarter of 2018. NCEMC will own approximately 13 percent of the project. On July 3, 2014, the South Carolina Coastal Conservation League (SCCL) and Southern Alliance for Clean Energy (SACE) jointly filed a Notice of Appeal with the Court of Appeals of South Carolina (S.C. Court of Appeals) seeking the court's review of the PSCSC's decision, claiming the PSCSC did not properly consider a request related to a proposed solar facility prior to granting approval of the CECPCN. The S.C. Court of Appeals affirmed the PSCSC's decision on February 10, 2016, and on March 24, 2016, denied a request for rehearing filed by SCCL and SACE. On April 21, 2016, SCCL and SACE petitioned the South Carolina Supreme Court for review of the S.C. Court of Appeals decision. On March 24, 2017, the South Carolina Supreme Court denied the request for review, thus concluding the matter.

Lee Nuclear Station

In December 2007, Duke Energy Carolinas applied to the NRC for combined operating licenses (COLs) for two Westinghouse AP1000 reactors for the proposed William States Lee III Nuclear Station to be located at a site in Cherokee County, South Carolina. The NCUC and PSCSC concurred with the prudence of Duke Energy Carolinas incurring certain project development and preconstruction costs through several separately issued orders, although full cost recovery is not guaranteed. In December 2016, the NRC issued a COL for each reactor. Duke Energy Carolinas is not required to build the nuclear reactors as result of the COLs being issued.

On March 29, 2017, Westinghouse filed for voluntary Chapter 11 bankruptcy in the U.S. Bankruptcy Court for the Southern District of New York. As part of its 2017 North Carolina Rate Case discussed above, Duke Energy Carolinas is seeking NCUC approval to cancel the development of the Lee Nuclear Station project due to the Westinghouse bankruptcy filing and other market activity and is requesting recovery of incurred licensing and development costs. Duke Energy Carolinas will maintain the license issued by the NRC in December 2016 as an option for potential future development. As of December 31, 2017, Duke Energy Carolinas has incurred approximately \$558 million of costs, including AFUDC, related to the project. These project costs are included in Net property, plant and equipment on Duke Energy Carolinas' Consolidated Balance Sheets. Duke Energy Carolinas cannot predict the outcome of this matter.

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Duke Energy Progress

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Progress' Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs – coal ash	\$ 1,975	\$ 1,822	(b)	(b)
AROs – nuclear and other	359	275		(c)
Accrued pension and OPEB	430	423		(b)
Retired generation facilities	170	165	X	2023
Net regulatory asset related to income taxes	—	7		(d)
Storm cost deferrals ^(e)	150	148	X	(b)
Hedge costs deferrals	64	66		(b)
DSM/EE ^(f)	264	263	(g)	2018
Vacation accrual	42	38		2018
Deferred fuel and purchased power	130	24	(h)	2018
Nuclear deferral	35	38		2019
PISCC and deferred operating expenses	38	42	X	2054
AMI	75	—		(b)
NCEMPA deferrals	53	51	(b)	2042
Other	74	69		(b)
Total regulatory assets	3,859	3,431		
Less: current portion	352	188		
Total noncurrent regulatory assets	\$ 3,507	\$ 3,243		
Regulatory Liabilities^(a)				
Costs of removal	\$ 2,122	\$ 1,840	X	(k)
Net regulatory liability related to income taxes	1,854	—		(b)
Deferred fuel and purchased power	1	64	(h)	2018
Other	161	200		(b)
Total regulatory liabilities	4,138	2,104		
Less: current portion	139	158		
Total noncurrent regulatory liabilities	\$ 3,999	\$ 1,946		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Recovery period for costs related to nuclear facilities runs through the decommissioning period of each unit.
(d) Recovery over the life of the associated assets. Includes regulatory liabilities related to the change in the North Carolina tax rate discussed in Note 22.
(e) South Carolina storm costs are included in rate base.
(f) Included in rate base.
(g) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
(h) South Carolina retail allocated costs are earning a return.
(i) Earns a debt return on coal ash expenditures for North Carolina and South Carolina retail customers.
(j) Includes incentives on DSM/EE investments.
(k) Recovered over the life of the associated assets.
(l) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

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2017 North Carolina Rate Case

On June 1, 2017, Duke Energy Progress filed an application with the NCUC for a rate increase for retail customers of approximately \$477 million, which represented an approximate 14.9 percent increase in annual base revenues. Subsequent to the filing, Duke Energy Progress adjusted the requested amount to \$420 million, representing an approximate 13 percent increase. The rate increase is driven by capital investments subsequent to the previous base rate case, costs of complying with CCR regulations and the Coal Ash Act, costs relating to storm recovery, investments in customer service technologies and recovery of costs associated with renewable purchased power. On November 22, 2017, Duke Energy Progress and the North Carolina Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding, pending NCUC approval. Terms of the settlement include a return on equity of 9.9 percent and a capital structure of 52 percent equity and 48 percent debt. As a result of the settlement, in 2017 Duke Energy Progress recorded pretax charges totaling approximately \$25 million to Impairment charges and Operation, maintenance and other on the Consolidated Income Statements, principally related to disallowances from rate base of certain projects at the Mayo and Sutton plants. The settlement does not include agreement on portions of the rate case relating to recovery of deferred storm recovery costs and coal ash basin deferred costs, which will be decided by the NCUC separately. Taking into consideration the settled portions and Duke Energy Progress' requested recovery of the non-settled portions, the requested rate increase is reduced to approximately \$300 million. An evidentiary hearing ended December 7, 2017, and a decision and revised customer rates are expected in the first quarter of 2018. Duke Energy Progress cannot predict the outcome of this matter.

Storm Cost Deferral Filings

On December 16, 2016, Duke Energy Progress filed a petition with the NCUC requesting an accounting order to defer certain costs incurred in connection with response to Hurricane Matthew and other significant storms in 2016. The final estimate of incremental operation and maintenance and capital costs of \$116 million was filed with the NCUC in September 2017. On March 15, 2017, the NCUC Public Staff filed comments supporting deferral of a portion of Duke Energy Progress' requested amount. Duke Energy Progress filed reply comments on April 12, 2017. On July 10, 2017, the NCUC consolidated Duke Energy Progress' storm deferral request into the Duke Energy Progress rate case docket for decision. See "2017 North Carolina Rate Case" for additional discussion. As of December 31, 2017, Duke Energy Progress has approximately \$77 million included in Regulatory assets on its Consolidated Balance Sheets. Duke Energy Progress cannot predict the outcome of this matter.

On December 16, 2016, Duke Energy Progress filed a petition with the PSCSC requesting an accounting order to defer certain costs incurred related to repairs and restoration of service following Hurricane Matthew. The final estimate of incremental operation and maintenance and capital costs was approximately \$74 million. In January 2017, the PSCSC approved the deferral request and issued an accounting order. As of December 31, 2017, Duke Energy Progress has approximately \$73 million included in Regulatory assets on its Consolidated Balance Sheets.

South Carolina Rate Case

In December 2016, the PSCSC approved a rate case settlement agreement among the ORS (Office of Regulatory Staff), intervenors and Duke Energy Progress. Terms of the settlement agreement included an approximate \$56 million increase in revenues over a two-year period. An increase of approximately

\$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$18.5 million in revenues was effective January 1, 2018. Duke Energy Progress amortized approximately \$18.5 million from the cost of removal reserve in 2017. Other settlement terms included a rate of return on equity of 10.1 percent, recovery of coal ash costs incurred from January 1, 2015, through June 30, 2016, over a 15-year period and ongoing deferral of allocated ash basin closure costs from July 1, 2016, until the next base rate case. The settlement also provides that Duke Energy Progress will not seek an increase in rates in South Carolina to occur prior to 2019, with limited exceptions.

Western Carolinas Modernization Plan

On November 4, 2015, Duke Energy Progress announced a Western Carolinas Modernization Plan, which included retirement of the existing Asheville coal-fired plant, the construction of two 280-MW combined-cycle natural gas plants having dual fuel capability, with the option to build a third natural gas simple cycle unit in 2023 based upon the outcome of initiatives to reduce the region's power demand. The plan also included upgrades to existing transmission lines and substations, installation of solar generation and a pilot battery storage project. These investments will be made within the next seven years. Duke Energy Progress is also working with the local natural gas distribution company to upgrade an existing natural gas pipeline to serve the natural gas plant.

On March 28, 2016, the NCUC issued an order approving a CPCN for the new combined-cycle natural gas plants, but denying the CPCN for the contingent simple cycle unit without prejudice to Duke Energy Progress to refile for approval in the future. On March 28, 2017, Duke Energy Progress filed an annual progress report for the construction of the combined-cycle plants with the NCUC, with an estimated cost of \$893 million. Site preparation activities for the combined-cycle plants are underway and construction of these plants began in 2017, with an expected in-service date in late 2019. Duke Energy Progress plans to file for future approvals related to the proposed solar generation and pilot battery storage project.

The carrying value of the 376-MW Asheville coal-fired plant, including associated ash basin closure costs, of \$385 million and \$492 million are included in Generation facilities to be retired, net on Duke Energy Progress' Consolidated Balance Sheets as of December 31, 2017, and 2016, respectively.

Shearon Harris Nuclear Plant Expansion

In 2006, Duke Energy Progress selected a site at Harris to evaluate for possible future nuclear expansion. On February 19, 2008, Duke Energy Progress filed its COL application with the NRC for two Westinghouse AP1000 reactors at Harris, which the NRC docketed for review. On May 2, 2013, Duke Energy Progress filed a letter with the NRC requesting the NRC to suspend its review activities associated with the COL at the Harris site. The NCUC and PSCSC approved deferral of retail costs. Total deferred costs were approximately \$47 million as of December 31, 2017, and are recorded in Regulatory assets on Duke Energy Progress' Consolidated Balance Sheets. On November 17, 2016, the FERC approved Duke Energy Progress' rate recovery request filing for the wholesale ratepayers' share of the abandonment costs, including a debt only return to be recovered through revised formula rates and amortized over a 15-year period beginning May 1, 2014. As part of the settlement agreement for the 2017 North Carolina Rate Case discussed above, Duke Energy Progress will amortize the regulatory asset over an eight-year period. The settlement is subject to NCUC approval. Duke Energy Progress cannot predict the outcome of this matter.

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Duke Energy Florida

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs – coal ash ^(c)	\$ 9	\$ 8	X	(b)
AROs – nuclear and other ^(c)	296	294	X	(b)
Accrued pension and OPEB ^(c)	476	458	X	(b)
Retired generation facilities ^(c)	216	257	X	(b)
Net regulatory asset related to income taxes ^(c)	—	224	X	(d)
Storm cost deferrals ^(c)	376	—	(f)	2021
Nuclear asset securitized balance, net	1,142	1,193		2036
Hedge costs deferrals	30	25		2018
DSM/EE ^(c)	17	15	X	2018
Deferred fuel and purchased power ^(c)	219	87	(g)	2019
Nuclear deferral	—	96		
AMI ^(c)	75	—	X	2032
Other	36	36		(b)
Total regulatory assets	2,892	2,693		
Less: current portion	389	213		
Total noncurrent regulatory assets	\$ 2,503	\$ 2,480		
Regulatory Liabilities^(a)				
Costs of removal ^(c)	\$ 415	\$ 358	(e)	(b)
Net regulatory liability related to income taxes ^(c)	948	—		(b)
Storm reserve ^(c)	—	60		
Deferred fuel and purchased power ^(c)	—	17	(g)	
Other	18	44		(b)
Total regulatory liabilities	1,381	479		
Less: current portion	74	31		
Total noncurrent regulatory liabilities	\$ 1,307	\$ 448		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Recovery over the life of the associated assets.
(e) Certain costs earn a return.
(f) Earns a debt return/interest once collections begin.
(g) Earns commercial paper rate.
(h) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

Storm Restoration Cost Recovery

In September 2017, Duke Energy Florida's service territory suffered significant damage from Hurricane Irma, resulting in approximately 1.3 million customers experiencing outages. In the fourth quarter of 2017, Duke Energy Florida also incurred preparation costs related to Hurricane Nate. On December 28, 2017, Duke Energy Florida filed a petition with the FPSC to recover incremental storm restoration costs for Hurricanes Irma and Nate and to replenish the storm reserve. The estimated recovery amount is approximately \$513 million to be recovered over a three-year period beginning in March 2018, subject to true up, which includes reestablishment of a \$132 million storm reserve. At December 31, 2017, Duke Energy Florida's Consolidated Balance Sheets included approximately \$376 million of recoverable costs under the FPSC's storm rule in Regulatory assets within Other Noncurrent Assets related

to storm recovery. On February 6, 2018, the FPSC approved Duke Energy Florida's motion to approve a stipulation that would apply tax savings resulting from the Tax Act toward storm costs in lieu of implementing a storm surcharge.

2017 Second Revised and Restated Settlement Agreement

On November 20, 2017, the FPSC issued an order to approve the 2017 Second Revised and Restated Settlement Agreement (2017 Settlement) filed by Duke Energy Florida. The 2017 Settlement replaces and supplants the 2013 Settlement. The 2017 Settlement extends the base rate case stay-out provision from the 2013 Settlement through the end of 2021 unless actual or projected return on equity falls below 9.5 percent; however, Duke Energy Florida is allowed a multiyear increase to its base rates of \$67 million per year in 2019, 2020 and 2021, as well as base rate increases for solar generation. In addition to

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carrying forward the provisions contained in the 2013 Settlement related to the Crystal River 1 and 2 coal units discussed below and future generation needs in Florida, the 2017 Settlement contains provisions related to future investments in solar and renewable energy technology, future investments in AML technology as well as recovery of existing meters, impacts of the Tax Act, an electric vehicle charging station pilot program and the termination of the proposed Levy Nuclear Project discussed below. As part of the 2017 Settlement, Duke Energy Florida will not move forward with building the Levy nuclear plant and recorded a pretax impairment charge of approximately \$135 million in 2017 to write off all unrecovered Levy Nuclear Project costs, including the COL. As a result of the 2017 Settlement, Duke Energy Florida transferred \$75 million to a regulatory asset for the net book value of existing meter technology, which will be recovered over a 15-year period.

The 2017 Settlement includes provisions to recover 2017 under-recovered fuel costs of approximately \$196 million over a 24-month period beginning in January 2018. On September 1, 2017, Duke Energy Florida submitted Alternate 2018 Fuel and Capacity clause projection filings consistent with the terms of the 2017 Settlement. The updated capacity filing reflects the removal of all Levy costs. The FPSC approved Duke Energy Florida's 2018 Alternate projection filings on October 25, 2017.

Hines Chiller Uprate Project

On February 2, 2017, Duke Energy Florida filed a petition seeking approval to include in base rates the revenue requirement for a Chiller Uprate Project (Uprate Project) at the Hines Energy Complex. The Uprate Project was placed into service in March 2017 at a cost of approximately \$150 million. The annual retail revenue requirement is approximately \$19 million. On March 28, 2017, the FPSC issued an order approving the revenue requirement, which was included in base rates for the first billing cycle of April 2017.

Citrus County Combined Cycle Facility

On October 2, 2014, the FPSC granted Duke Energy Florida a Determination of Need for the construction of a 1,640-MW combined-cycle natural gas plant in Citrus County, Florida. On May 5, 2015, the Florida Department of Environmental Protection approved Duke Energy Florida's Site Certification Application. The project has received all required permits and approvals and construction began in October 2015. The facility is expected to be commercially available in 2018 at an estimated cost of \$1.5 billion, including AFUDC. The plant will receive natural gas from the Sabal Trail Transmission, LLC (Sabal Trail) pipeline discussed below.

Purchase of Osprey Energy Center

Duke Energy Florida received a Civil Investigative Demand from the Department of Justice (DOJ) related to alleged violation of the waiting period for the Hart-Scott-Rodino Antitrust Improvements Act of 1976 related to the purchase of the Osprey Energy Center, LLC, which was completed in January 2017. The DOJ alleged Duke Energy Florida assumed operational control of the Osprey Plant before the waiting period expiration on February 27, 2015. On January 17, 2017, Duke Energy Florida entered into a stipulation agreement to settle with the DOJ for \$600,000 without admission of liability. On January 18, 2017, the DOJ filed a complaint and the stipulation in the U.S. District Court for the District of Columbia, which was approved by the court. A final order dismissing the case was entered in April 2017.

Crystal River Unit 3

In December 2014, the FPSC approved Duke Energy Florida's decision to construct an independent spent fuel storage installation (ISFSI) for the retired Crystal River Unit 3 nuclear plant and approved Duke Energy Florida's request to defer amortization of the ISFSI pending resolution of litigation against the federal government as a result of the Department of Energy's breach of its obligation to accept spent nuclear fuel. The return rate is based on the currently approved AFUDC rate with a return on equity of 7.35 percent, or 70 percent of the currently approved 10.5 percent. The return rate is subject to change if the return on equity changes in the future. In September 2016, the FPSC approved an amendment to the 2013 Settlement authorizing recovery of the ISFSI through the Capacity Cost Recovery Clause. Through December 31, 2017, Duke Energy Florida has deferred approximately \$113 million for recovery associated with building the ISFSI. See Note 5 for additional information on spent nuclear fuel litigation.

The regulatory asset associated with the original Crystal River Unit 3 power uprate project will continue to be recovered through the NCR over an estimated seven-year period that began in 2013 with a remaining uncollected balance of \$87 million at December 31, 2017.

Crystal River Unit 3 Regulatory Asset

On September 15, 2015, the FPSC approved Duke Energy Florida's motion for approval of a settlement agreement with intervenors to reduce the value of the projected Crystal River Unit 3 regulatory asset to be recovered to \$1.283 billion as of December 31, 2015. An impairment charge of \$15 million was recognized in 2015 to adjust the regulatory asset balance. In November 2015, the FPSC issued a financing order approving Duke Energy Florida's request to issue nuclear asset-recovery bonds to finance its unrecovered regulatory asset related to Crystal River Unit 3 through a wholly owned special purpose entity. Nuclear asset-recovery bonds replace the base rate recovery methodology authorized by the 2013 Settlement and result in a lower rate impact to customers with a recovery period of approximately 20 years.

Pursuant to provisions in Florida Statutes and the FPSC financing order, in 2016, Duke Energy Florida formed Duke Energy Florida Project Finance, LLC (DEFPPF), a wholly owned, bankruptcy remote special purpose subsidiary for the purpose of issuing nuclear asset-recovery bonds. In June 2016, DEFPPF issued \$1,294 million aggregate principal amount of senior secured bonds (nuclear asset-recovery bonds) to finance the recovery of Duke Energy Florida's Crystal River 3 regulatory asset.

In connection with this financing, net proceeds to DEFPPF of approximately \$1,287 million, after underwriting costs, were used to acquire nuclear asset-recovery property from Duke Energy Florida and to pay transaction related expenses. The nuclear asset-recovery property includes the right to impose, bill, collect and adjust a non-bypassable nuclear asset-recovery charge, to be collected on a per kilowatt-hour basis, from all Duke Energy Florida retail customers until the bonds are paid in full. Duke Energy Florida began collecting the nuclear asset-recovery charge on behalf of DEFPPF in customer rates in July 2016.

See Note 17 for additional information.

Levy Nuclear Project

On July 28, 2008, Duke Energy Florida applied to the NRC for COLs for two Westinghouse AP1000 reactors at Levy (Levy Nuclear Project). In 2008, the FPSC granted Duke Energy Florida's petition for an affirmative Determination of Need and related orders requesting cost recovery under Florida's nuclear cost-recovery rule, together with the associated facilities, including transmission lines and substation facilities. In October 2016, the NRC issued

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COLs for the proposed Levy Nuclear Plant Units 1 and 2. Duke Energy Florida is not required to build the nuclear reactors as a result of the COLs being issued.

On January 28, 2014, Duke Energy Florida terminated the Levy engineering, procurement and construction agreement (EPC). Duke Energy Florida may be required to pay for work performed under the EPC. Duke Energy Florida recorded an exit obligation in 2014 for the termination of the EPC. This liability was recorded within Other in Other Noncurrent Liabilities with an offset primarily to Regulatory assets on the Consolidated Balance Sheets. Duke Energy Florida is allowed to recover reasonable and prudent EPC cancellation costs from its retail customers. On May 1, 2017, Duke Energy Florida filed a request with the FPSC to recover approximately \$82 million of Levy Nuclear Project costs from retail customers in 2018. As part of the 2017 Settlement discussed above,

Duke Energy Florida is no longer seeking recovery of costs related to the Levy Nuclear Project and the ongoing Westinghouse litigation discussed in Note 5. All remaining Levy Nuclear Project issues have been resolved.

Crystal River 1 and 2 Coal Units

Duke Energy Florida has evaluated Crystal River 1 and 2 coal units for retirement in order to comply with certain environmental regulations. Based on this evaluation, those units are expected to be retired by the end of 2018. Once those units are retired Duke Energy Florida will continue recovery of existing annual depreciation expense through the end of 2020. Beginning in 2021, Duke Energy Florida will be allowed to recover any remaining net book value of the assets from retail customers through the Capacity Cost Recovery Clause.

Duke Energy Ohio

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs – coal ash	\$ 17	\$ 12	X	(b)
Accrued pension and OPEB	139	135		(e)
Net regulatory asset related to income taxes ^(c)	—	63		(d)
Storm cost deferrals	5	5		(b)
Hedge costs deferrals	6	7		(b)
DSM/EE	18	6	(f)	(e)
Grid modernization	39	65	X	(e)
Vacation accrual	5	4		2018
Deferred fuel and purchased power	—	5		
PISCC and deferred operating expenses ^(d)	19	20	X	2083
Transmission expansion obligation	50	71		(e)
MGP	91	99		(b)
AMI	6	—		(b)
East Bend deferrals	45	32	X	(b)
Deferred pipeline integrity costs	12	7	X	(b)
Other	42	26		(b)
Total regulatory assets	494	557		
Less: current portion	49	37		
Total noncurrent regulatory assets	\$ 445	\$ 520		
Regulatory Liabilities^(a)				
Costs of removal	\$ 189	\$ 212		(d)
Net regulatory liability related to income taxes	688	—		(b)
Accrued pension and OPEB	16	19		(e)
Deferred fuel and purchased power	—	6		
Other	34	20		(b)
Total regulatory liabilities	927	257		
Less: current portion	36	21		
Total noncurrent regulatory liabilities	\$ 891	\$ 236		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Recovery over the life of the associated assets.
(e) Recovered via a rider mechanism.
(f) Includes incentives on DSM/EE investments.
(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

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Duke Energy Kentucky Rate Case

On September 1, 2017, Duke Energy Kentucky filed a rate case with the KPSC requesting an increase in electric base rates of approximately \$49 million, which represents an approximate 15 percent increase on the average customer bill. The rate increase is driven by increased investment in utility plant, increased operations and maintenance expenses and recovery of regulatory assets. The application also includes implementation of the Environmental Surcharge Mechanism to recover environmental costs not included in base rates, requests to establish a Distribution Capital Investment Rider to recover incremental costs of specific programs, requests to establish a FERC Transmission Cost Reconciliation Rider to recover escalating transmission costs and modification to the Profit Sharing Mechanism to increase customers' share of proceeds from the benefits of owning generation and to mitigate shareholder risks associated with that generation. An evidentiary hearing is scheduled to begin on March 6, 2018. Duke Energy Kentucky anticipates that rates will go into effect in mid-April 2018. Duke Energy Kentucky cannot predict the outcome of this matter.

2017 Electric Security Plan

On June 1, 2017, Duke Energy Ohio filed with the PUCO a request for a standard service offer in the form of an electric security plan (ESP). If approved by the PUCO, the term of the ESP would be from June 1, 2018, to May 31, 2024. Terms of the ESP include continuation of market-based customer rates through competitive procurement processes for generation, continuation and expansion of existing rider mechanisms and proposed new rider mechanisms relating to regulatory mandates, costs incurred to enhance the customer experience and transform the grid and a service reliability rider for vegetation management. On February 15, 2018, the procedural schedule was suspended to facilitate ongoing settlement discussions. Duke Energy Ohio cannot predict the outcome of this matter.

Woodsdale Station Fuel System Filing

On June 9, 2015, the FERC ruled in favor of PJM Interconnection, LLC (PJM) on a revised Tariff and Reliability Assurance Agreement including implementation of a Capacity Performance (CP) proposal and to amend sections of the Operating Agreement related to generation non-performance. The CP proposal includes performance-based penalties for non-compliance. Duke Energy Kentucky is a Fixed Resource Requirement (FRR) entity, and therefore is subject to the compliance standards through its FRR plans. A partial CP obligation will apply to Duke Energy Kentucky in the delivery year beginning June 1, 2019, with full compliance beginning June 1, 2020. Duke Energy Kentucky has developed strategies for CP compliance investments. On December 21, 2017, the KPSC issued an order approving Duke Energy Kentucky's request for a CPCN to construct an ultra-low sulfur diesel backup fuel system for the Woodsdale Station. The backup fuel system is projected to cost approximately \$55 million and is anticipated to be in service prior to the CP compliance deadline of April 2019.

Ohio Valley Electric Corporation

On March 31, 2017, Duke Energy Ohio filed for approval to adjust its existing price stabilization rider (Rider PSR), which is currently set at zero dollars, to pass through net costs related to its contractual entitlement to capacity and energy from the generating assets owned by OVEC. The filing seeks to adjust Rider PSR for OVEC costs subsequent to April 1, 2017. Duke Energy Ohio is seeking deferral authority for net costs incurred from April 1, 2017, until the new rates under Rider PSR are put into effect. Various intervenors have filed

motions to dismiss or stay the proceeding and Duke Energy Ohio has opposed these filings. See Note 13 for additional discussion of Duke Energy Ohio's ownership interest in OVEC. Duke Energy Ohio cannot predict the outcome of this matter.

East Bend Coal Ash Basin Filing

On December 2, 2016, Duke Energy Kentucky filed with the KPSC a request for a CPCN for construction projects necessary to close and repurpose an ash basin at the East Bend facility as a result of current and proposed EPA regulations. Duke Energy Kentucky estimated a total cost of approximately \$93 million in the filing and expects in-service date by the first quarter of 2021. On June 6, 2017, the KPSC approved the CPCN request.

Electric Base Rate Case

Duke Energy Ohio filed with the PUCO an electric distribution base rate case application and supporting testimony in March 2017. Duke Energy Ohio requested an estimated annual increase of approximately \$15 million and a return on equity of 10.4 percent. The application also includes requests to continue certain current riders and establish new riders. On September 26, 2017, the PUCO staff filed a report recommending a revenue decrease between approximately \$18 million and \$29 million and a return on equity between 9.22 percent and 10.24 percent. On February 15, 2018, the procedural schedule was suspended to facilitate ongoing settlement discussions. Duke Energy Ohio expects rates will go into effect the second quarter of 2018. Duke Energy Ohio cannot predict the outcome of this matter.

Natural Gas Pipeline Extension

Duke Energy Ohio is proposing to install a new natural gas pipeline in its Ohio service territory to increase system reliability and enable the retirement of older infrastructure. On January 20, 2017, Duke Energy Ohio filed an amended application with the Ohio Power Siting Board for approval of one of two proposed routes. A public hearing was held on June 15, 2017, and an adjudicatory hearing was scheduled to begin September 11, 2017. On August 24, 2017, an administrative law judge (ALJ) granted a request made by Duke Energy Ohio to delay the procedural schedule while it works through various issues related to the pipeline route. If approved, construction of the pipeline extension is expected to be completed before the 2020/2021 winter season. The proposed project involves the installation of a natural gas line and is estimated to cost approximately \$110 million, excluding AFUDC.

Advanced Metering Infrastructure

On April 25, 2016, Duke Energy Kentucky filed with the KPSC an application for approval of a CPCN for the construction of advanced metering infrastructure. Duke Energy Kentucky estimates the \$49 million project will take two years to complete. Duke Energy Kentucky also requested approval to establish a regulatory asset for the remaining book value of existing meter equipment and inventory to be replaced. Duke Energy Kentucky and the Kentucky attorney general entered into a stipulation to settle matters related to the application. On May 25, 2017, the KPSC issued an order to approve the stipulation with certain modifications. On June 1, 2017, Duke Energy Kentucky filed its acceptance of the modifications. The deployment of AMI meters began in third quarter 2017 and is expected to be completed in early 2019. Duke Energy Ohio has approximately \$6 million included in Regulatory assets on its Consolidated Balance Sheets at December 31, 2017, for the book value of existing meter equipment.

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Accelerated Natural Gas Service Line Replacement Rider

On January 20, 2015, Duke Energy Ohio filed an application for approval of an accelerated natural gas service line replacement program (ASRP). Under the ASRP, Duke Energy Ohio proposed to replace certain natural gas service lines on an accelerated basis over a 10-year period. Duke Energy Ohio also proposed to complete preliminary survey and investigation work related to natural gas service lines that are customer owned and for which it does not have valid records and, further, to relocate interior natural gas meters to suitable exterior locations where such relocation can be accomplished. Duke Energy Ohio's projected total capital and operations and maintenance expenditures under the ASRP were approximately \$240 million. The filing also sought approval of a rider mechanism (Rider ASRP) to recover related expenditures. Duke Energy Ohio proposed to update Rider ASRP on an annual basis. Intervenor's opposed the ASRP, primarily because they believe the program is neither required nor necessary under federal pipeline regulation. On October 26, 2016, the PUCO issued an order denying the proposed ASRP. Duke Energy Ohio's application for rehearing of the PUCO decision was denied on May 17, 2017.

Energy Efficiency Cost Recovery

On March 28, 2014, Duke Energy Ohio filed an application for recovery of program costs, lost distribution revenue and performance incentives related to its energy efficiency and peak demand reduction programs. These programs are undertaken to comply with environmental mandates set forth in Ohio law. The PUCO approved Duke Energy Ohio's application but found that Duke Energy Ohio was not permitted to use banked energy savings from previous years in order to calculate the amount of allowed incentive. This conclusion represented a change to the cost recovery mechanism that had been agreed upon by intervenors and approved by the PUCO in previous cases. The PUCO granted the applications for rehearing filed by Duke Energy Ohio and an intervenor. On January 6, 2016, Duke Energy Ohio and the PUCO Staff entered into a stipulation, pending the PUCO's approval, to resolve issues related to performance incentives and the PUCO Staff audit of 2013 costs, among other issues. In December 2015, based upon the stipulation, Duke Energy Ohio re-established approximately \$20 million of the revenues that had been previously reversed. On October 26, 2016, the PUCO issued an order approving the stipulation without modification. In December 2016, the PUCO granted the intervenors request for rehearing for the purpose of further review. Duke Energy Ohio cannot predict the outcome of this matter.

On June 15, 2016, Duke Energy Ohio filed an application for approval of a three-year energy efficiency and peak demand reduction portfolio of programs. A stipulation and modified stipulation were filed on December 22, 2016, and January 27, 2017, respectively. Under the terms of the stipulations, which included support for deferral authority of all costs and a cap on shared savings incentives, Duke Energy Ohio offered its energy efficiency and peak demand reduction programs throughout 2017. On February 3, 2017, Duke Energy Ohio filed for deferral authority of its costs incurred in 2017 in respect of its proposed energy efficiency and peak demand reduction portfolio. On September 27, 2017, the PUCO issued an order approving a modified stipulation. The modifications impose an annual cap of approximately \$38 million on program costs and shared savings incentives combined, but allowed for Duke Energy Ohio to file for a waiver of costs in excess of the cap in 2017. The PUCO approved the waiver request up to a total cost of \$56 million. On November 21, 2017, the PUCO granted Duke Energy Ohio's and intervenor's applications for rehearing of the September 27, 2017, order. On January 10, 2018, the PUCO denied the Ohio Consumers' Counsel's application for rehearing of the PUCO order granting Duke Energy Ohio's waiver request. Duke Energy Ohio cannot predict the outcome of this matter.

2014 Electric Security Plan

In April 2015, the PUCO modified and approved Duke Energy Ohio's proposed electric security plan (ESP), with a three-year term and an effective date of June 1, 2015. The PUCO approved a competitive procurement process for SSO load, a distribution capital investment rider and a tracking mechanism for incremental distribution expenses caused by major storms. The PUCO also approved a placeholder tariff for a price stabilization rider, but denied Duke Energy Ohio's specific request to include Duke Energy Ohio's entitlement to generation from OVEC in the rider at this time; however, the order allows Duke Energy Ohio to submit additional information to request recovery in the future. On May 4, 2015, Duke Energy Ohio filed an application for rehearing requesting the PUCO to modify or amend certain aspects of the order. On May 28, 2015, the PUCO granted all applications for rehearing filed in the case for future consideration. Duke Energy Ohio cannot predict the outcome of the appeals in this matter.

2012 Natural Gas Rate Case/MGP Cost Recovery

On November 13, 2013, the PUCO issued an order approving a settlement of Duke Energy Ohio's natural gas base rate case and authorizing the recovery of costs incurred between 2008 and 2012 for environmental investigation and remediation of two former MGP sites. The PUCO order also authorized Duke Energy Ohio to continue deferring MGP environmental investigation and remediation costs incurred subsequent to 2012 and to submit annual filings to adjust the MGP rider for future costs. Intervenor's appealed this decision to the Ohio Supreme Court and on June 29, 2017, the Ohio Supreme Court issued its decision affirming the PUCO order. Appellants filed a request for reconsideration, which was denied on September 27, 2017. This matter is now final.

The PUCO order also contained deadlines for completing the MGP environmental investigation and remediation costs at the MGP sites. For the property known as the East End site, the PUCO order established a deadline of December 31, 2016, which was subsequently extended to December 31, 2019. In January 2017, intervenor's parties filed for rehearing of the PUCO's decision. On February 8, 2017, the PUCO denied the rehearing request. As of December 31, 2017, Duke Energy Ohio had approximately, \$35 million included in Regulatory assets on the Consolidated Balance Sheets for future remediation costs expected to be incurred at the East End site.

Regional Transmission Organization Realignment

Duke Energy Ohio, including Duke Energy Kentucky, transferred control of its transmission assets from MISO to PJM Interconnection, LLC (PJM), effective December 31, 2011. The PUCO approved a settlement related to Duke Energy Ohio's recovery of certain costs of the Regional Transmission Organization (RTO) realignment via a non-bypassable rider. Duke Energy Ohio is allowed to recover all MISO Transmission Expansion Planning (MTEP) costs, including but not limited to Multi Value Project (MVP) costs, directly or indirectly charged to Ohio customers. Duke Energy Ohio also agreed to vigorously defend against any charges for MVP projects from MISO. The KPSC also approved a request to effect the RTO realignment, subject to a commitment not to seek double recovery in a future rate case of the transmission expansion fees that may be charged by MISO and PJM in the same period or overlapping periods.

The following table provides a reconciliation of the beginning and ending balance of Duke Energy Ohio's recorded liability for its exit obligation and share of MTEP costs, excluding MVP, recorded within Other in Current liabilities and Other in Other Noncurrent Liabilities on the Consolidated Balance Sheets. The retail portions of MTEP costs billed by MISO are recovered by Duke Energy Ohio through a non-bypassable rider. As of December 31, 2017, and 2016, \$50 million and \$71 million are recorded in Regulatory assets on Duke Energy Ohio's Consolidated Balance Sheets, respectively.

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(in millions)	December 31, 2016	Provisions/ Adjustments	Cash Reductions	December 31, 2017
Duke Energy Ohio	\$ 90	\$ (20)	\$ (4)	\$ 66

MVP MISO approved 17 MVP proposals prior to Duke Energy Ohio's exit from MISO on December 31, 2011. Construction of these projects is expected to continue through 2020. Costs of these projects, including operating and maintenance costs, property and income taxes, depreciation and an allowed return, are allocated and billed to MISO transmission owners.

On December 29, 2011, MISO filed a tariff with the FERC providing for the allocation of MVP costs to a withdrawing owner based on monthly energy usage. The FERC set for hearing (i) whether MISO's proposed cost allocation methodology to transmission owners who withdrew from MISO prior to January 1, 2012, is consistent with the tariff at the time of their withdrawal from MISO and, (ii) if not, what the amount of and methodology for calculating any MVP cost responsibility should be. In 2012, MISO estimated Duke Energy Ohio's MVP obligation over the period from 2012 to 2071 at \$2.7 billion, on an undiscounted basis. On July 16, 2013, a FERC Administrative Law Judge (ALJ) issued an initial

decision. Under this initial decision, Duke Energy Ohio would be liable for MVP costs. Duke Energy Ohio filed exceptions to the initial decision, requesting FERC to overturn the ALJ's decision.

On October 29, 2015, the FERC issued an order reversing the ALJ's decision. The FERC ruled the cost allocation methodology is not consistent with the MISO tariff and that Duke Energy Ohio has no liability for MVP costs after its withdrawal from MISO. On May 19, 2016, the FERC denied the request for rehearing filed by MISO and the MISO Transmission Owners. On July 15, 2016, the MISO Transmission Owners filed a petition for review with the U.S. Court of Appeals for the Sixth Circuit. On June 21, 2017, a three-judge panel affirmed FERC's 2015 decision holding that Duke Energy Ohio has no liability for the cost of the MVP projects constructed after Duke Energy Ohio's withdrawal from MISO. MISO did not file further petitions for review and this matter is now final.

Duke Energy Indiana

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Indiana's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs – coal ash	\$ 380	\$ 276		(b)
Accrued pension and OPEB	197	222		(b)
Retired generation facilities ^(c)	65	73	X	2025
Net regulatory asset related to income taxes	—	119		(d)
Hedge costs deferrals	25	26		(b)
DSM/EE	21	—	(e)	(e)
Vacation accrual	11	10		2018
Deferred fuel and purchased power	18	40		2018
PISCC and deferred operating expenses ^(d)	274	281	X	(b)
Gasification services agreement buyout ^(f)	—	8		
AMI ^(g)	21	46	X	(b)
Other	131	121		(b)
Total regulatory assets	1,143	1,222		
Less: current portion	165	149		
Total noncurrent regulatory assets	\$ 978	\$ 1,073		
Regulatory Liabilities^(a)				
Costs of removal	\$ 644	\$ 660		(d)
Net regulatory liability related to income taxes	998	—		(b)
Amounts to be refunded to customers	10	45		2018
Accrued pension and OPEB	64	72		(b)
Other	31	11		(b)
Total regulatory liabilities	1,747	788		
Less: current portion	24	40		
Total noncurrent regulatory liabilities	\$ 1,723	\$ 748		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
- (b) The expected recovery or refund period varies or has not been determined.
- (c) Included in rate base.
- (d) Recovery over the life of the associated assets.
- (e) Includes incentives on DSM/EE investments and is recovered through a tracker mechanism over a two-year period.
- (f) The IURC authorized Duke Energy Indiana to recover costs incurred to buy out a gasification services agreement, including carrying costs through 2017.
- (g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

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Coal Combustion Residual Plan

On March 17, 2016, Duke Energy Indiana filed with the IURC a request for approval of its first group of federally mandated CCR rule compliance projects (Phase I CCR Compliance Projects) to comply with the EPA's CCR rule. The projects in this Phase I filing are CCR compliance projects, including the conversion of Cayuga and Gibson stations to dry bottom ash handling and related water treatment. Duke Energy Indiana requested timely recovery of approximately \$380 million in retail capital costs, including AFUDC, and recovery of incremental operating and maintenance costs under a federal mandate tracker that provides for timely recovery of 80 percent of such costs and deferral with carrying costs of 20 percent of such costs for recovery in a subsequent retail base rate case. On January 24, 2017, Duke Energy Indiana and various intervenors filed a settlement agreement with the IURC. Terms of the settlement include recovery of 60 percent of the estimated CCR compliance construction project capital costs through existing rider mechanisms and deferral of 40 percent of these costs until Duke Energy Indiana's next general retail rate case. The deferred costs will earn a return based on Duke Energy Indiana's long-term debt rate of 4.73 percent until costs are included in retail rates, at which time the deferred costs will earn a full return. Costs are to be capped at \$365 million, plus actual AFUDC. Costs above the cap would be considered for recovery in the next rate case. Terms of the settlement agreement also require Duke Energy Indiana to perform certain reporting and groundwater monitoring. On May 24, 2017, the IURC approved the settlement agreement.

Edwardsport Integrated Gasification Combined Cycle Plant

Costs for the Edwardsport Integrated Gasification Combined Cycle (IGCC) Plant are recovered from retail electric customers via a tracking mechanism (IGCC rider) with updates filed by Duke Energy Indiana. The IGCC Plant was placed into commercial operation in June 2013.

On August 24, 2016, the IURC approved a settlement (IGCC Settlement) among Duke Energy Indiana and several intervenors to resolve disputes related to five IGCC riders (the 11th through 15th) and a subdocket to Duke Energy Indiana's fuel adjustment clause. The IGCC settlement resulted in customers not being billed for previously incurred plant operating costs of \$87.5 million and payments and commitments from Duke Energy Indiana of \$5.5 million for attorneys' fees and consumer programs funding. Duke Energy Indiana recognized pretax impairment and related charges of \$93 million in 2015. Additionally, under the IGCC settlement, the recovery of operating and maintenance expenses and ongoing maintenance capital at the plant were subject to certain caps during the years of 2016 and 2017. The IGCC settlement also included a commitment to either retire or stop burning coal by December 31, 2022, at the Gallagher Station. Pursuant to the IGCC settlement, the in-service date used for accounting and ratemaking will remain as June 2013. Remaining deferred costs will be recovered over eight years beginning in 2016 and not earn a carrying cost. As of December 31, 2017, deferred costs related to the project are approximately \$152 million and are included in Regulatory assets in Current Assets and Other Noncurrent Assets on Duke Energy Indiana's Consolidated Balance Sheets. Under the IGCC settlement, future IGCC riders will be filed annually with the next filing scheduled for first quarter 2018.

The ninth semi-annual IGCC rider order was appealed by various intervenors and the matter was remanded to the IURC for further proceedings and additional findings on a tax in-service issue. On February 2, 2017, the IURC issued an order upholding the original decision, finding that an estimate of impact on customer rates due to the federal income tax in-service determination was reasonable.

FERC Transmission Return on Equity Complaint

Customer groups have filed with the FERC complaints against MISO and its transmission-owning members, including Duke Energy Indiana, alleging, among other things, that the current base rate of return on equity earned by MISO transmission owners of 12.38 percent is unjust and unreasonable. The complaints claim, among other things, that the current base rate of return on equity earned by MISO transmission owners should be reduced to 8.67 percent. On January 5, 2015, the FERC issued an order accepting the MISO transmission owners' adder of 0.50 percent to the base rate of return on equity based on participation in an RTO subject to it being applied to a return on equity that is shown to be just and reasonable in the pending return on equity complaints. On December 22, 2015, the presiding FERC ALJ in the first complaint issued an Initial Decision in which the base rate of return on equity was set at 10.32 percent. On September 28, 2016, the Initial Decision in the first complaint was affirmed by FERC, but is subject to rehearing requests. On June 30, 2016, the presiding FERC ALJ in the second complaint issued an Initial Decision setting the base rate of return on equity at 9.70 percent. The Initial Decision in the second complaint is pending FERC review. On April 14, 2017, the U.S. Court of Appeals for the District of Columbia Circuit, in *Emera Maine v. FERC*, reversed and remanded certain aspects of the methodology employed by FERC to establish rates of return on equity. This decision may affect the outcome of the complaints against Duke Energy Indiana. Duke Energy Indiana currently believes these matters will not have a material impact on its results of operations, cash flows and financial position.

Grid Infrastructure Improvement Plan

On December 7, 2015, Duke Energy Indiana filed a grid infrastructure improvement plan with an estimated cost of \$1.8 billion in response to guidance from IURC orders and the Indiana Court of Appeals decisions related to a new statute. The plan uses a combination of advanced technology and infrastructure upgrades to improve service to customers and provide them with better information about their energy use. It also provides for cost recovery through a transmission and distribution rider (T&D Rider). In March 2016, Duke Energy Indiana entered into a settlement with all parties to the proceeding except the Citizens Action Coalition of Indiana, Inc. The settlement agreement decreased the capital expenditures eligible for timely recovery of costs in the seven-year plan to approximately \$1.4 billion, including the removal of an AMI project. Under the settlement, the return on equity to be used in the T&D Rider is 10 percent. The IURC approved the settlement and issued a final order on June 29, 2016. The order was not appealed and the proceeding is concluded.

The settlement agreement provided for deferral accounting for depreciation and post-in-service carrying costs for AMI projects outside the plan. Duke Energy Indiana withdrew its request for a regulatory asset for current meters and will retain any savings associated with future AMI installation until the next retail base rate case, which is required to be filed prior to the end of the plan. During the third quarter of 2016, Duke Energy Indiana decided to implement the AMI project. This decision resulted in a pretax impairment charge related to existing or non-AMI meters of approximately \$8 million in 2016, based in part on the requirement to file a base rate case in 2022 under the approved plan. Duke Energy Indiana evaluates the need for rate cases as part of its business planning, based on the outlook of emerging costs, ongoing investment and impact related to the Tax Act enacted in late 2017 and expects to file a rate case prior to the 2022 requirement. As a result, in 2017, Duke Energy Indiana recorded an additional impairment charge of approximately \$22 million. As of December 31, 2017, Duke Energy Indiana's remaining net book value of non-AMI meters is approximately \$21 million and will be depreciated through July 2020.

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Combined Notes to Consolidated Financial Statements – (Continued)

Benton County Wind Farm Dispute

On December 16, 2013, Benton County Wind Farm LLC (BCWF) filed a lawsuit against Duke Energy Indiana seeking damages for past generation losses alleging Duke Energy Indiana violated its obligations under a 2006 PPA by refusing to offer electricity to the market at negative prices. Damage claims continue to increase during times that BCWF is not dispatched. Under 2013 revised MISO market rules, Duke Energy Indiana is required to make a price offer to MISO for the power it proposes to sell into MISO markets and MISO determines whether BCWF is dispatched. Because market prices would have been negative due to increased market participation, Duke Energy Indiana determined it would not bid at negative prices in order to balance customer needs against BCWF's need to run. BCWF contends Duke Energy Indiana must bid at the lowest negative price to ensure dispatch, while Duke Energy

Indiana contends it is not obligated to bid at any particular price, that it cannot ensure dispatch with any bid and that it has reasonably balanced the parties' interests. On July 6, 2015, the U.S. District Court for the Southern District of Indiana entered judgment against BCWF on all claims. BCWF appealed the decision and on December 9, 2016, the appeals court ruled in favor of BCWF. Duke Energy Indiana recorded an obligation and a regulatory asset related to the settlement amount in fourth quarter 2016. On June 30, 2017, the parties finalized a settlement agreement. Terms of the settlement included Duke Energy Indiana paying \$29 million for back damages. Additionally, the parties agreed on the method by which the contract will be bid into the market in the future. The settlement amount was paid in June 2017. The IURC issued an order on September 27, 2017, approving recovery of the settlement amount through Duke Energy Indiana's fuel clause. The IURC order has been appealed to the Indiana Court of Appeals. Duke Energy Indiana cannot predict the outcome of this matter.

Piedmont

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Piedmont's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs – other	\$ 15	\$ 14		(d)
Accrued pension and OPEB ^(c)	91	166		(f)
Derivatives - gas supply contracts	142	187		(e)
Vacation accrual ^(c)	10	13		2018
Deferred pipeline integrity costs ^(c)	42	36		2018
Amount due from customers	64	66	X	(b)
Other	14	15		(b)
Total regulatory assets	378	497		
Less: current portion	95	124		
Total noncurrent regulatory assets	\$ 283	\$ 373		
Regulatory Liabilities^(a)				
Costs of removal	\$ 544	\$ 528		(d)
Net regulatory liability related to income taxes	597	80		(b)
Other	3	—		(b)
Total regulatory liabilities	1,144	608		
Less: current portion	3	—		
Total noncurrent regulatory liabilities	\$ 1,141	\$ 608		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
- (b) The expected recovery or refund period varies or has not been determined.
- (c) Included in rate base.
- (d) Recovery over the life of the associated assets.
- (e) Balance will fluctuate with changes in the market. Current contracts extend into 2031.
- (f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

South Carolina Rate Stabilization Adjustment Filing

In June 2017, Piedmont filed with the PSCSC under the South Carolina Rate Stabilization Act its quarterly monitoring report for the 12-month period ending March 31, 2017. The filing included a revenue deficiency calculation and tariff rates in order to permit Piedmont the opportunity to earn the rate of return on equity of 12.6 percent established in its last general rate case. On October 4, 2017, the PSCSC approved a settlement agreement between Piedmont and the SC Office of Regulatory Staff. Terms of the settlement included implementation of rates for the 12-month period beginning November 2017 with a return on equity of 10.2 percent.

North Carolina Integrity Management Rider Filings

In October 2017, Piedmont filed a petition with the NCUC under the Integrity Management Rider (IMR) mechanism to collect an additional \$8.9 million in annual revenues, effective December 2017, based on the eligible capital investments closed to integrity and safety projects over the six-month period ending September 30, 2017. On November 28, 2017, the NCUC approved the requested rate adjustment.

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In May 2017, Piedmont filed, and the NCUC approved, a petition under the IMR mechanism to collect an additional \$11.6 million in annual revenues, effective June 2017, based on the eligible capital investments closed to integrity and safety projects over the six-month period ending March 31, 2017.

Tennessee Integrity Management Rider Filing

In November 2017, Piedmont filed a petition with the TPUC under the IMR mechanism to collect an additional \$3.3 million in annual revenues, effective January 2018, based on the eligible capital investments closed to integrity and safety projects over the 12-month period ending October 31, 2017. In January 2018, Piedmont filed an amended computation under the IMR mechanism, revising the proposed increase in annual revenues to approximately \$0.4 million based on the decrease in the corporate federal income tax rate effective January 1, 2018. A hearing on this matter is scheduled for March 2018.

OTHER REGULATORY MATTERS

Atlantic Coast Pipeline

On September 2, 2014, Duke Energy, Dominion Resources (Dominion), Piedmont and Southern Company Gas announced the formation of Atlantic Coast Pipeline, LLC (ACP) to build and own the proposed Atlantic Coast Pipeline (ACP pipeline), an approximately 600-mile interstate natural gas pipeline running from West Virginia to North Carolina. The ACP pipeline is designed to meet, in part, the needs identified by Duke Energy Carolinas, Duke Energy Progress and Piedmont. Dominion will build and operate the ACP pipeline and holds a leading ownership percentage in ACP of 48 percent. Duke Energy owns a 47 percent interest through its Gas Utilities and Infrastructure segment. Southern Company Gas maintains a 5 percent interest. See Notes 12 and 17 for additional information related to Duke Energy's ownership interest.

Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the pipeline. Purchases will be made under several 20-year supply contracts, subject to state regulatory approval. On September 18, 2015, ACP filed an application with the FERC requesting a CPCN authorizing ACP to construct the pipeline. ACP executed a construction agreement in September 2016. ACP also requested approval of an open access tariff and the precedent agreements it entered into with future pipeline customers. In December 2016, FERC issued a draft Environmental Impact Statement (EIS) indicating that the proposed pipeline would not cause significant harm to the environment or protected populations. The FERC issued the final EIS in July 2017. On October 13, 2017, FERC issued an order approving the CPCN, subject to conditions. On October 16, 2017, ACP accepted the FERC order subject to reserving its right to file a request for rehearing or clarification on a timely basis. On November 9, 2017, ACP filed a request for rehearing on several limited issues. On December 12, 2017, ACP filed an answer to intervenors' request for rehearing of the certificate order and for stay of the certificate order.

In December 2017, West Virginia issued a waiver of the state water quality permit in reliance on the U.S. Army Corps of Engineers national water quality permit and Virginia issued a conditional water quality permit subject to completion of additional studies and stormwater plans. In early 2018, the FERC issued a series of Partial Notices to Proceed which authorized the project to begin limited construction-related activities along the pipeline route. North Carolina issued the state water quality permit in January 2018. The project remains subject to other pending federal and state approvals, which will allow full construction activities to begin. The ACP pipeline project has a targeted in-service date of late 2019.

Due to delays in obtaining the required permits to commence construction and the conditions imposed upon the project by the permits, ACP's project manager estimates the project's pipeline development costs have increased from a range of \$5.0 billion to \$5.5 billion to a range of \$6.0 billion and \$6.5 billion, excluding financing costs. Project construction activities, schedule and final costs are still subject to uncertainty due to potential additional permitting delays, construction productivity and other conditions and risks which could result in potential higher project costs and a potential delay in the targeted in-service date.

Sabal Trail Transmission Pipeline

On May 4, 2015, Duke Energy acquired a 7.5 percent ownership interest in Sabal Trail Transmission, LLC (Sabal Trail) from Spectra Energy Partners, LP, a master limited partnership, formed by Enbridge Inc. (formerly Spectra Energy Corp.). Spectra Energy Partners, LP holds a 50 percent ownership interest in Sabal Trail and NextEra Energy has a 42.5 percent ownership interest. Sabal Trail is a joint venture to construct a 515-mile natural gas pipeline (Sabal Trail pipeline) to transport natural gas to Florida. Total estimated project costs are approximately \$3.2 billion. The Sabal Trail pipeline traverses Alabama, Georgia and Florida. The primary customers of the Sabal Trail pipeline, Duke Energy Florida and Florida Power & Light Company (FP&L), have each contracted to buy pipeline capacity for 25-year initial terms. See Notes 12 and 17 for additional information.

On February 3, 2016, the FERC issued an order granting the request for a CPCN to construct and operate the pipeline. The Sabal Trail pipeline received other required regulatory approvals and the phase one mainline was placed in service in July 2017. On October 12, 2017, Sabal Trail filed a request with FERC to place in-service a lateral line to Duke Energy Florida's Citrus County Combined Cycle facility, which remains pending. This request is required to support commissioning and testing activities at the facility.

On September 21, 2016, intervenors filed an appeal of FERC's CPCN orders to the U.S. Court of Appeals for the District of Columbia Circuit (D.C. Circuit Court of Appeals). On August 22, 2017, the appeals court ruled against FERC in the case for failing to include enough information on the impact of greenhouse-gas emissions carried by the pipeline, vacated the CPCN order and remanded the case to FERC. In response to the August 2017 court decision, the FERC issued a draft Supplemental Environmental Impact Statement (SEIS) on September 27, 2017. On October 6, 2017, FERC and a group of industry intervenors, including Sabal Trail and Duke Energy Florida, filed separate petitions with the D.C. Circuit Court of Appeals requesting rehearing regarding the court's decision to vacate the CPCN order. On January 31, 2018, the D.C. Circuit Court of Appeals denied the requests for rehearing. On February 2, 2018, Sabal Trail filed a request with FERC for expedited issuance of its order on remand and reissuance of the CPCN. In the alternative, the pipeline requested that FERC issue a temporary emergency CPCN to allow for continued operations. On February 5, 2018, FERC issued the final SEIS but did not issue the order on remand. On February 6, 2018, FERC and the intervenors in this case each filed motions for stay with the D.C. Circuit Court to stay the court's mandate. The February 6, 2018 motions automatically stay the issuance of the court's mandate until the later of seven days after the court denies the motions or the expiration of any stay granted by the court. Both motions are pending. Sabal Trail will continue to monitor the progress and the impact to the project going forward.

Constitution Pipeline

Duke Energy owns a 24 percent ownership interest in Constitution Pipeline Company, LLC (Constitution). Constitution is a natural gas pipeline project slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. The pipeline will be constructed

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and operated by Williams Partners L.P., which has a 41 percent ownership share. The remaining interest is held by Cabot Oil and Gas Corporation and WGL Holdings, Inc. Before the permitting delays discussed below, Duke Energy's total anticipated contributions were approximately \$229 million. As a result of the permitting delays and project uncertainty, total anticipated contributions by Duke Energy can no longer be reasonably estimated.

In December 2014, Constitution received approval from the FERC to construct and operate the proposed pipeline. However, on April 22, 2016, the New York State Department of Environmental Conservation (NYSDEC) denied Constitution's application for a necessary water quality certification for the New York portion of the Constitution pipeline. Constitution filed legal actions in the U.S. Court of Appeals for the Second Circuit (U.S. Court of Appeals) challenging the legality and appropriateness of the NYSDEC's decision and on August 18, 2017, the petition was denied in part and dismissed in part. In September 2017, Constitution filed a petition for a rehearing of portions of the decision unrelated to the water quality certification, which was denied by the U.S. Court of Appeals. In January 2018, Constitution petitioned the Supreme Court of the United States to review the U.S. Court of Appeals decision. In October 2017, Constitution filed a petition for declaratory order requesting FERC to find that the NYSDEC waived its rights to issue a Section 401 water quality certification by not acting on Constitution's application within a reasonable period of time as required by statute. This petition was based on precedent established by another pipeline's successful petition with FERC following a District of Columbia Circuit Court ruling. On January 11, 2018, FERC denied Constitution's petition. In February 2018, Constitution filed a rehearing request with FERC of its finding that the NYSDEC did not waive the Section 401 certification requirement. Constitution is currently unable to approximate an in-service date for the project due to the NYSDEC's denial of the water quality certification. The Constitution partners remain committed to the project and are evaluating next steps to move the project forward. Duke Energy cannot predict the outcome of this matter.

Since April 2016, with the actions of the NYSDEC, Constitution stopped construction and discontinued capitalization of future development costs until the project's uncertainty is resolved.

See Notes 12 and 17 for additional information related to ownership interest and carrying value of the investment.

The table below contains the net carrying value of generating facilities planned for retirement or included in recent IRPs as evaluated for potential retirement due to a lack of requisite environmental control equipment. Dollar amounts in the table below are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2017, and exclude capitalized asset retirement costs.

	Capacity (in MW)	Remaining Net Book Value (in millions)
Duke Energy Carolinas		
Allen Steam Station Units 1-3 ^(a)	585	\$ 163
Progress Energy and Duke Energy Florida		
Crystal River Units 1 and 2 ^(b)	873	107
Duke Energy Indiana		
Gallagher Units 2 and 4 ^(c)	280	127
Total Duke Energy	1,738	\$ 397

(a) Duke Energy Carolinas will retire Allen Steam Station Units 1 through 3 by December 31, 2024, as part of the resolution of a lawsuit involving alleged New Source Review violations.

(b) Duke Energy Florida expects to retire these coal units by the end of 2018 to comply with environmental regulations.

(c) Duke Energy Indiana committed to either retire or stop burning coal at Gallagher Units 2 and 4 by December 31, 2022, as part of the settlement of Edwardsport IGCC matters.

Refer to the "Western Carolinas Modernization Plan" discussion above for details of Duke Energy Progress' planned retirements.

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5. COMMITMENTS AND CONTINGENCIES

INSURANCE

General Insurance

The Duke Energy Registrants have insurance and reinsurance coverage either directly or through indemnification from Duke Energy's captive insurance company, Bison, and its affiliates, consistent with companies engaged in similar commercial operations with similar type properties. The Duke Energy Registrants' coverage includes (i) commercial general liability coverage for liabilities arising to third parties for bodily injury and property damage; (ii) workers' compensation; (iii) automobile liability coverage; and (iv) property coverage for all real and personal property damage. Real and personal property damage coverage excludes electric transmission and distribution lines, but includes damages arising from boiler and machinery breakdowns, earthquakes, flood damage and extra expense, but not outage or replacement power coverage. All coverage is subject to certain deductibles or retentions, sublimits, exclusions, terms and conditions common for companies with similar types of operations. The Duke Energy Registrants self-insure their electric transmission and distribution lines against loss due to storm damage and other natural disasters. As discussed further in Note 4, Duke Energy Florida maintains a storm damage reserve and has a regulatory mechanism to recover the cost of named storms on an expedited basis.

The cost of the Duke Energy Registrants' coverage can fluctuate from year to year reflecting claims history and conditions of the insurance and reinsurance markets.

In the event of a loss, terms and amounts of insurance and reinsurance available might not be adequate to cover claims and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on the Duke Energy Registrants' results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Insurance

Duke Energy Carolinas owns and operates the McGuire Nuclear Station (McGuire) and the Oconee Nuclear Station (Oconee) and operates and has a partial ownership interest in the Catawba Nuclear Station (Catawba). McGuire and Catawba each have two reactors. Oconee has three reactors. The other joint owners of Catawba reimburse Duke Energy Carolinas for certain expenses associated with nuclear insurance per the Catawba joint owner agreements.

Duke Energy Progress owns and operates the Robinson Nuclear Plant (Robinson), Brunswick and Harris. Robinson and Harris each have one reactor. Brunswick has two reactors.

Duke Energy Florida owns Crystal River Unit 3, which permanently ceased operation in 2013 and reached a SAFSTOR condition in January 2018 after the successful transfer of all used nuclear fuel assemblies to an onsite dry cask storage facility.

In the event of a loss, terms and amounts of insurance available might not be adequate to cover property damage and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on Duke Energy Carolinas', Duke Energy Progress' and Duke Energy Florida's results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Liability Coverage

The Price-Anderson Act requires owners of nuclear reactors to provide for public nuclear liability protection per nuclear incident up to a maximum total financial protection liability. The maximum total financial protection liability, which is approximately \$13.4 billion, is subject to change every five years for inflation and for the number of licensed reactors. Total nuclear liability coverage consists of a combination of private primary nuclear liability insurance coverage and a mandatory industry risk-sharing program to provide for excess nuclear liability coverage above the maximum reasonably available private primary coverage. The U.S. Congress could impose revenue-raising measures on the nuclear industry to pay claims.

Primary Liability Insurance

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida have purchased the maximum reasonably available private primary nuclear liability insurance as required by law, which is \$450 million per station.

Excess Liability Program

This program provides \$13 billion of coverage per incident through the Price-Anderson Act's mandatory industrywide excess secondary financial protection program of risk pooling. This amount is the product of potential cumulative retrospective premium assessments of \$127 million times the current 102 licensed commercial nuclear reactors in the U.S. Under this program, licensees could be assessed retrospective premiums to compensate for public nuclear liability damages in the event of a nuclear incident at any licensed facility in the U.S. Retrospective premiums may be assessed at a rate not to exceed \$19 million per year per licensed reactor for each incident. The assessment may be subject to state premium taxes.

Nuclear Property and Accidental Outage Coverage

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are members of Nuclear Electric Insurance Limited (NEIL), an industry mutual insurance company, which provides property damage, nuclear accident decontamination and premature decommissioning insurance for each station for losses resulting from damage to its nuclear plants, either due to accidents or acts of terrorism. Additionally, NEIL provides accidental outage coverage for each station for losses in the event of a major accidental outage at an insured nuclear station.

Pursuant to regulations of the NRC, each company's property damage insurance policies provide that all proceeds from such insurance be applied, first, to place the plant in a safe and stable condition after a qualifying accident and second, to decontaminate the plant before any proceeds can be used for decommissioning, plant repair or restoration.

Losses resulting from acts of terrorism are covered as common occurrences, such that if terrorist acts occur against one or more commercial nuclear power plants insured by NEIL within a 12-month period, they would be treated as one event and the owners of the plants where the act occurred would share one full limit of liability. The full limit of liability is currently \$3.2 billion. NEIL sublimits the total aggregate for all of their policies for non-nuclear terrorist events to approximately \$1.83 billion.

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Each nuclear facility has accident property damage, decontamination and premature decommissioning liability insurance from NEIL with limits of \$1.5 billion, except for Crystal River Unit 3. Crystal River Unit 3's limit is \$50 million and is on an actual cash value basis. All nuclear facilities except for Catawba and Crystal River Unit 3 also share an additional \$1.25 billion nuclear accident insurance limit above their dedicated underlying limit. This shared additional excess limit is not subject to reinstatement in the event of a loss. Catawba has a dedicated \$1.25 billion of additional nuclear accident insurance limit above its dedicated underlying limit. Catawba and Oconee also have an additional \$750 million of non-nuclear accident property damage limit. All coverages are subject to sublimits and significant deductibles.

NEIL's Accidental Outage policy provides some coverage, such as business interruption, for losses in the event of a major accident property damage outage of a nuclear unit. Coverage is provided on a weekly limit basis after a significant waiting period deductible and at 100 percent of the available weekly limits for 52 weeks and 80 percent of the available weekly limits for the next 110 weeks. Coverage is provided until these available weekly periods are met where the accidental outage policy limit will not exceed \$490 million for McGuire and Catawba, \$462 million for Brunswick, \$448 million for Harris, \$434 million for Oconee and \$378 million for Robinson. NEIL sublimits the accidental outage recovery to the first 104 weeks of coverage not to exceed \$328 million from non-nuclear accidental property damage. Coverage amounts decrease in the event more than one unit at a station is out of service due to a common accident. All coverages are subject to sublimits and significant deductibles.

Potential Retroactive Premium Assessments

In the event of NEIL losses, NEIL's board of directors may assess member companies' retroactive premiums of amounts up to 10 times their annual premiums for up to six years after a loss. NEIL has never exercised this assessment. The maximum aggregate annual retrospective premium obligations for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are \$146 million, \$96 million and \$1 million, respectively. Duke Energy Carolinas' maximum assessment amount includes 100 percent of

potential obligations to NEIL for jointly owned reactors. Duke Energy Carolinas would seek reimbursement from the joint owners for their portion of these assessment amounts.

ENVIRONMENTAL

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters. These regulations can be changed from time to time, imposing new obligations on the Duke Energy Registrants. The following environmental matters impact all of the Duke Energy Registrants.

Remediation Activities

In addition to the ARO recorded as a result of various environmental regulations, discussed in Note 9, the Duke Energy Registrants are responsible for environmental remediation at various sites. These include certain properties that are part of ongoing operations and sites formerly owned or used by Duke Energy entities. These sites are in various stages of investigation, remediation and monitoring. Managed in conjunction with relevant federal, state and local agencies, remediation activities vary based upon site conditions and location, remediation requirements, complexity and sharing of responsibility. If remediation activities involve joint and several liability provisions, strict liability, or cost recovery or contribution actions, the Duke Energy Registrants could potentially be held responsible for environmental impacts caused by other potentially responsible parties and may also benefit from insurance policies or contractual indemnities that cover some or all cleanup costs. Liabilities are recorded when losses become probable and are reasonably estimable. The total costs that may be incurred cannot be estimated because the extent of environmental impact, allocation among potentially responsible parties, remediation alternatives and/or regulatory decisions have not yet been determined at all sites. Additional costs associated with remediation activities are likely to be incurred in the future and could be significant. Costs are typically expensed as Operation, maintenance and other in the Consolidated Statements of Operations unless regulatory recovery of the costs is deemed probable.

The following tables contain information regarding reserves for probable and estimable costs related to the various environmental sites. These reserves are recorded in Accounts payable within Current Liabilities and Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Balance at December 31, 2014	\$ 92	\$ 10	\$ 17	\$ 5	\$ 12	\$ 54	\$ 10
Provisions/adjustments	11	1	4	—	4	1	5
Cash reductions	(9)	(1)	(4)	(2)	(2)	(1)	(3)
Balance at December 31, 2015	94	10	17	3	14	54	12
Provisions/adjustments	19	4	7	2	4	7	1
Cash reductions	(15)	(4)	(6)	(2)	(4)	(2)	(3)
Balance at December 31, 2016	98	10	18	3	14	59	10
Provisions/adjustments	8	3	3	2	2	3	(4)
Cash reductions	(25)	(3)	(6)	(2)	(4)	(15)	(1)
Balance at December 31, 2017	\$ 81	\$ 10	\$ 15	\$ 3	\$ 12	\$ 47	\$ 5

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As of December 31, 2016, October 31, 2016, 2015 and 2014, Piedmont's environmental reserve was \$1 million. In 2017, a \$1 million provision was recorded, resulting in a reserve balance of \$2 million at December 31, 2017.

Additional losses in excess of recorded reserves that could be incurred for the stages of investigation, remediation and monitoring for environmental sites that have been evaluated at this time are not material except as presented in the table below.

(in millions)	
Duke Energy	\$ 56
Duke Energy Carolinas	19
Duke Energy Ohio	30
Piedmont	2

North Carolina and South Carolina Ash Basins

In February 2014, a break in a stormwater pipe beneath an ash basin at Duke Energy Carolinas' retired Dan River Steam Station caused a release of ash basin water and ash into the Dan River. Duke Energy Carolinas estimates 30,000 to 39,000 tons of ash and 24 million to 27 million gallons of basin water were released into the river. In July 2014, Duke Energy completed remediation work identified by the EPA and continues to cooperate with the EPA's civil enforcement process. Future costs related to the Dan River release, including future state or federal civil enforcement proceedings, future regulatory directives, natural resources damages, future claims or litigation and long-term environmental impact costs, cannot be reasonably estimated at this time.

The North Carolina Department of Environmental Quality (NCDEQ) has historically assessed Duke Energy Carolinas and Duke Energy Progress with Notice of Violations (NOV) for violations that were most often resolved through satisfactory corrective actions and minor, if any, fines or penalties. Subsequent to the Dan River ash release, Duke Energy Carolinas and Duke Energy Progress have been served with a higher level of NOV's, including assessed penalties for violations at L.V. Sutton Combined Cycle Plant (Sutton) and Dan River Steam Station. Duke Energy Carolinas and Duke Energy Progress cannot predict whether the NCDEQ will assess future penalties related to existing unresolved NOV's and if such penalties would be material. See "NCDEQ Notices of Violation" section below for additional discussion.

LITIGATION

Duke Energy

Duke Energy no longer has exposure to litigation matters related to the International Disposal Group as a result of the divestiture of the business in December 2016. See Note 2 for additional information related to the sale of International Energy.

Ash Basin Shareholder Derivative Litigation

Five shareholder derivative lawsuits were filed in Delaware Chancery Court relating to the release at Dan River and to the management of Duke Energy's ash basins. On October 31, 2014, the five lawsuits were consolidated in a single proceeding titled *In Re Duke Energy Corporation Coal Ash Derivative Litigation*. On December 2, 2014, plaintiffs filed a Corrected Verified Consolidated Shareholder Derivative Complaint (Consolidated Complaint). The Consolidated Complaint names as defendants several current and former Duke Energy officers and directors (collectively, the "Duke Energy Defendants"). Duke Energy is named as a nominal defendant.

The Consolidated Complaint alleges the Duke Energy Defendants breached their fiduciary duties by failing to adequately oversee Duke Energy's ash basins and that these breaches of fiduciary duty may have contributed to the incident at Dan River and continued thereafter. The lawsuit also asserts claims against the Duke Energy Defendants for corporate waste (relating to the money Duke Energy has spent and will spend as a result of the fines, penalties and coal ash removal) and unjust enrichment (relating to the compensation and director remuneration that was received despite these alleged breaches of fiduciary duty). The lawsuit seeks both injunctive relief against Duke Energy and restitution from the Duke Energy Defendants. On January 21, 2015, the Duke Energy Defendants filed a Motion to Stay, which the court granted. The stay was lifted on March 24, 2016, after which plaintiffs filed an Amended Verified Consolidated Shareholder Derivative Complaint (Amended Complaint) making the same allegations as in the Consolidated Complaint. The Duke Energy Defendants filed a motion to dismiss the Amended Complaint on June 21, 2016, which was granted by the Court on December 14, 2016. Plaintiffs filed an appeal to the Delaware Supreme Court on January 9, 2017. Oral argument was held on September 27, 2017. On December 15, 2017, the Delaware Supreme Court affirmed the Chancery Court's order of dismissal.

In addition to the above derivative complaints, in 2014, Duke Energy received two shareholder litigation demand letters. The letters alleged that the members of the Board of Directors and certain officers breached their fiduciary duties by allowing the company to illegally dispose of and store coal ash pollutants. One of the letters also alleged a breach of fiduciary duty in the decision-making relating to the leadership changes following the close of the Progress Energy merger in July 2012. By letter dated September 4, 2015, attorneys for the shareholders were informed that, on the recommendation of the Demand Review Committee formed to consider such matters, the Board of Directors concluded not to pursue potential claims against individuals. One of the shareholders, Mitchell Pinsky, sent a formal demand for records and Duke Energy has responded to this request. There was no follow-up after the records were provided; therefore, this matter has been resolved.

On October 30, 2015, shareholder Saul Bresalier filed a shareholder derivative complaint (Bresalier Complaint) in the U.S. District Court for the District of Delaware. The lawsuit alleges that several current and former Duke Energy officers and directors (Bresalier Defendants) breached their fiduciary duties in connection with coal ash environmental issues, the post-merger change in Chief Executive Officer (CEO) and oversight of political contributions. Duke Energy is named as a nominal defendant. The Bresalier Complaint contends that the Demand Review Committee failed to appropriately consider the shareholder's earlier demand for litigation and improperly decided not to pursue claims against the Bresalier Defendants. On March 30, 2017, the court granted Defendants' Motion to Dismiss on the claims relating to coal ash environmental issues and political contributions. As discussed below, a settlement agreement was approved for the merger-related claims in the Bresalier Complaint, and those claims were dismissed. On September 8, 2017, Bresalier filed a notice of appeal to the U.S. Court of Appeals for the Third Circuit (Third Circuit Court) challenging the dismissal of his coal ash and political contribution claims. On January 19 2018, Bresalier filed a stipulation of dismissal, closing this case.

Progress Energy Merger Shareholder Litigation

Duke Energy, the 11 members of the Board of Directors who were also members of the pre-merger Board of Directors (Legacy Duke Energy Directors) and certain Duke Energy officers were defendants in a purported securities class-action lawsuit (*Nieman v. Duke Energy Corporation, et al*). This lawsuit consolidated three lawsuits originally filed in July 2012. The plaintiffs alleged

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Combined Notes to Consolidated Financial Statements – (Continued)

federal Securities Act of 1933 and Securities Exchange Act of 1934 (Exchange Act) claims based on allegations of materially false and misleading representations and omissions in the Registration Statement filed on July 7, 2011, and purportedly incorporated into other documents, all in connection with the post-merger change in CEO. On August 15, 2014, the parties reached an agreement in principle to settle the litigation. On March 10, 2015, the parties filed a Stipulation of Settlement and a Motion for Preliminary Approval of the Settlement. Under the terms of the agreement, Duke Energy agreed to pay \$146 million to settle the claim. On April 22, 2015, Duke Energy made a payment of \$25 million into the settlement escrow account. The remainder of \$121 million was paid by insurers into the settlement escrow account. The final order approving the settlement was issued on November 2, 2015, thus closing the matter.

On May 31, 2013, the Delaware Chancery Court consolidated four shareholder derivative lawsuits filed in 2012. The Court also appointed a lead plaintiff and counsel for plaintiffs and designated the case as *In Re Duke Energy Corporation Derivative Litigation* (Merger Chancery Litigation). The lawsuit names as defendants the Legacy Duke Energy Directors. Duke Energy is named as a nominal defendant. The case alleges claims for breach of fiduciary duties of loyalty and care in connection with the post-merger change in CEO.

Two Shareholder Derivative Complaints, filed in 2012 in federal district court in Delaware, were consolidated as *Tansey v. Rogers, et al.* The case alleges claims against the Legacy Duke Energy Directors for breach of fiduciary duty and waste of corporate assets, as well as claims under Section 14(a) and 20(a) of the Exchange Act. Duke Energy is named as a nominal defendant. On December 21, 2015, Plaintiff filed a Consolidated Amended Complaint asserting the same claims contained in the original complaints.

The Legacy Duke Energy Directors have reached an agreement-in-principle to settle the Merger Chancery Litigation, conditioned on dismissal as well, of the *Tansey v. Rogers, et al* case and the merger related claims in the Bresalier Complaint discussed above, which was approved by the Delaware Chancery Court on July 13, 2017. The entire settlement amount was funded by insurance. The settlement amount, less court-approved attorney fees, totaled \$20 million and was paid to Duke Energy in 2017.

Duke Energy Carolinas and Duke Energy Progress

Coal Ash Insurance Coverage Litigation

In March 2017, Duke Energy Carolinas and Duke Energy Progress filed a civil action in North Carolina Superior Court against various insurance providers. The lawsuit seeks payment for coal ash-related liabilities covered by third-party liability insurance policies. The insurance policies were issued between 1971 and 1986 and provide third-party liability insurance for property damage. The civil action seeks damages for breach of contract and indemnification for costs arising from the Coal Ash Act and the EPA CCR rule at 15 coal-fired plants in North Carolina and South Carolina. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

NCDEQ Notice of Violation

On February 8, 2016, the NCDEQ assessed a penalty of approximately \$6.8 million, including enforcement costs, against Duke Energy Carolinas related to stormwater pipes and associated discharges at the Dan River Steam Station. Duke Energy Carolinas recorded a charge in December 2015 for this penalty. In March 2016, Duke Energy Carolinas filed an appeal of this penalty. On September 23, 2016, Duke Energy Carolinas entered into a settlement agreement with the NCDEQ, without admission of liability, under which Duke Energy Carolinas agreed to a payment of \$6 million to resolve allegations underlying the asserted civil penalty related to the Dan River coal ash release and a March 4, 2016, NOV alleging unpermitted discharges at the facility.

NCDEQ State Enforcement Actions

In the first quarter of 2013, Southern Environmental Law Center (SELC) sent notices of intent to sue Duke Energy Carolinas and Duke Energy Progress related to alleged Clean Water Act (CWA) violations from coal ash basins at two of their coal-fired power plants in North Carolina. The NCDEQ filed enforcement actions against Duke Energy Carolinas and Duke Energy Progress alleging violations of water discharge permits and North Carolina groundwater standards. The cases have been consolidated and are being heard before a single judge in the North Carolina Superior Court.

On August 16, 2013, the NCDEQ filed an enforcement action against Duke Energy Carolinas and Duke Energy Progress related to their remaining plants in North Carolina alleging violations of the CWA and violations of the North Carolina groundwater standards. Both of these cases have been assigned to the judge handling the enforcement actions discussed above. SELC is representing several environmental groups who have been permitted to intervene in these cases.

The court issued orders in 2016 granting Motions for Partial Summary Judgment for seven of the 14 North Carolina plants with coal ash basins named in the enforcement actions. On February 13, 2017, the court issued an order denying motions for partial summary judgment brought by both the environmental groups and Duke Energy Carolinas and Duke Energy Progress for the remaining seven plants. On March 15, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Notice of Appeal to challenge the trial court's order. The parties were unable to reach an agreement at mediation in April 2017. The parties submitted briefs to the court on remaining issues to be tried and a ruling is pending. On August 22, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Petition for Discretionary Review, requesting the North Carolina Supreme Court to accept the appeal. On August 24, 2017, SELC filed a motion to dismiss the appeal. Duke Energy Carolinas' and Duke Energy Progress' opening appellate briefs were filed on October 12, 2017, and briefing is now complete. Argument was held on February 8, 2018.

It is not possible to predict any liability or estimate any damages Duke Energy Carolinas or Duke Energy Progress might incur in connection with these matters.

Federal Citizens Suits

On June 13, 2016, the Roanoke River Basin Association (RRBA) filed a federal citizen suit in the Middle District of North Carolina alleging unpermitted discharges to surface water and groundwater violations at the Mayo Plant. On August 19, 2016, Duke Energy Progress filed a Motion to Dismiss. On April 26, 2017, the court entered an order dismissing four of the claims in the federal citizen suit. Two claims relating to alleged violations of National Pollutant Discharge Elimination System (NPDES) permit provisions survived the motion to dismiss, and Duke Energy Progress filed its response on May 10, 2017. The parties are engaged in pre-trial discovery. Trial has been scheduled for July 9, 2018.

On March 16, 2017, RRBA served Duke Energy Progress with a Notice of Intent to Sue under the CWA for alleged violations of effluent standards and limitations at the Roxboro Plant. In anticipation of litigation, Duke Energy Progress filed a Complaint for Declaratory Relief in the U.S. District Court for the Western District of Virginia on May 11, 2017, which was subsequently dismissed. On May 16, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina which asserts two claims relating to alleged violations of NPDES permit provisions and one claim relating to the use of nearby water bodies. The parties are engaged in pre-trial discovery. Trial has been scheduled for October 1, 2018.

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On June 20, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina challenging the closure plans at the Mayo Plant under the EPA CCR Rule. Duke Energy Progress filed a motion to dismiss, which was argued on January 30, 2018.

On August 2, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina challenging the closure plans at the Roxboro Plant under the EPA CCR Rule. Duke Energy Progress filed a motion to dismiss on October 2, 2017.

On December 6, 2017, various parties filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina for alleged violations at Duke Energy Carolinas' Belews Creek Steam Station (Belews Creek) under the CWA. Duke Energy Carolinas filed a motion to dismiss on February 5, 2018.

It is not possible to predict whether Duke Energy Carolinas or Duke Energy Progress will incur any liability or to estimate the damages, if any, they might incur in connection with these matters.

Five previously filed cases involving the Riverbend, Cape Fear, H.F. Lee, Sutton and Buck plants have been dismissed or settled during 2016.

Groundwater Contamination Claims

Beginning in May 2015, a number of residents living in the vicinity of the North Carolina facilities with ash basins received letters from the NCDEQ advising them not to drink water from the private wells on their land tested by the NCDEQ as the samples were found to have certain substances at levels higher than the criteria set by the North Carolina Department of Health and Human Services (DHHS). Results of Comprehensive Site Assessments (CSAs) testing performed by Duke Energy under the Coal Ash Act have been consistent with historical data provided to state regulators over many years. The DHHS and NCDEQ sent follow-up letters on October 15, 2015, to residents near coal ash basins who have had their wells tested, stating that private well samplings at a considerable distance from coal ash basins, as well as some municipal water supplies, contain similar levels of vanadium and hexavalent chromium, which led investigators to believe these constituents are naturally occurring. In March 2016, DHHS rescinded the advisories.

Duke Energy Carolinas and Duke Energy Progress have received formal demand letters from residents near Duke Energy Carolinas' and Duke Energy Progress' coal ash basins. The residents claim damages for nuisance and diminution in property value, among other things. The parties held three days of mediation discussions which ended at impasse. On January 6, 2017, Duke Energy Carolinas and Duke Energy Progress received the plaintiffs' notice of their intent to file suits should the matter not settle. The NCDEQ preliminarily approved Duke Energy's permanent water solution plans on January 13, 2017, and as a result shortly thereafter, Duke Energy issued a press release, providing additional details regarding the homeowner compensation package. This package consists of three components: (i) a \$5,000 goodwill payment to each eligible well owner to support the transition to a new water supply, (ii) where a public water supply is available and selected by the eligible well owner, a stipend to cover 25 years of water bills and (iii) the Property Value Protection Plan. The Property Value Protection Plan is a program offered by Duke Energy designed to guarantee eligible plant neighbors the fair market value of their residential property should they decide to sell their property during the time that the plan is offered. Duke Energy Carolinas and Duke Energy Progress recognized reserves of \$19 million and \$4 million, respectively.

On August 23, 2017, a class-action suit was filed in Wake County Superior Court, North Carolina, against Duke Energy Carolinas and Duke Energy Progress on behalf of certain property owners living near coal ash impoundments at Allen, Asheville, Belews Creek, Buck, Cliffside, Lee, Marshall, Mayo and Roxboro. The class is defined as those who are well-eligible under the Coal Ash Act or

those to whom Duke Energy has promised a permanent replacement water supply and seeks declaratory and injunctive relief, along with compensatory damages. Plaintiffs allege that Duke Energy's improper maintenance of coal ash impoundments caused harm, particularly through groundwater contamination. Despite NCDEQ's preliminary approval, Plaintiffs contend that Duke Energy's proposed permanent water solutions plan fails to comply with the Coal Ash Act. On September 28, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Motion to Dismiss and Motion to Strike the class designation. The parties entered into a Settlement Agreement on January 24, 2018, which resulted in the dismissal of the underlying class action on January 25, 2018.

On September 14, 2017, a complaint was filed against Duke Energy Progress in New Hanover County Superior Court by a group of homeowners residing approximately 1 mile from Duke Energy Progress' Sutton Steam Plant. The homeowners allege that coal ash constituents have been migrating from ash impoundments at Sutton into their groundwater for decades and that in 2015, Duke Energy Progress discovered these releases of coal ash, but failed to notify any officials or neighbors and failed to take remedial action. The homeowners claim unspecified physical and mental injuries as a result of consuming their well water and seek actual damages for personal injury, medical monitoring and punitive damages. Duke Energy filed its Motion to Dismiss on October 27, 2017, and the hearing is scheduled for March 7, 2018.

It is not possible to estimate the maximum exposure of loss, if any, that may occur in connection with claims which might be made by these residents.

Duke Energy Carolinas

Asbestos-related Injuries and Damages Claims

Duke Energy Carolinas has experienced numerous claims for indemnification and medical cost reimbursement related to asbestos exposure. These claims relate to damages for bodily injuries alleged to have arisen from exposure to or use of asbestos in connection with construction and maintenance activities conducted on its electric generation plants prior to 1985. As of December 31, 2017, there were 161 asserted claims for non-malignant cases with the cumulative relief sought of up to \$42 million and 54 asserted claims for malignant cases with the cumulative relief sought of up to \$16 million. Based on Duke Energy Carolinas' experience, it is expected that the ultimate resolution of most of these claims likely will be less than the amount claimed.

Duke Energy Carolinas has recognized asbestos-related reserves of \$489 million and \$512 million at December 31, 2017, and 2016, respectively. These reserves are classified in Other within Other Noncurrent Liabilities and Other within Current Liabilities on the Consolidated Balance Sheets. These reserves are based upon the minimum amount of the range of loss for current and future asbestos claims through 2037, are recorded on an undiscounted basis and incorporate anticipated inflation. In light of the uncertainties inherent in a longer-term forecast, management does not believe they can reasonably estimate the indemnity and medical costs that might be incurred after 2037 related to such potential claims. It is possible Duke Energy Carolinas may incur asbestos liabilities in excess of the recorded reserves.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. Duke Energy Carolinas' cumulative payments began to exceed the self-insurance retention in 2008. Future payments up to the policy limit will be reimbursed by the third-party insurance carrier. The insurance policy limit for potential future insurance recoveries indemnification and medical cost claim payments is \$797 million in excess of the self-insured retention. Receivables for insurance recoveries were \$585 million and \$587 million at December 31, 2017, and 2016, respectively. These amounts are classified in Other within Other

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Noncurrent Assets and Receivables within Current Assets on the Consolidated Balance Sheets. Duke Energy Carolinas is not aware of any uncertainties regarding the legal sufficiency of insurance claims. Duke Energy Carolinas believes the insurance recovery asset is probable of recovery as the insurance carrier continues to have a strong financial strength rating.

Duke Energy Progress and Duke Energy Florida

Spent Nuclear Fuel Matters

On October 16, 2014, Duke Energy Progress and Duke Energy Florida sued the U.S. in the U.S. Court of Federal Claims. The lawsuit claimed the Department of Energy breached a contract in failing to accept spent nuclear fuel under the Nuclear Waste Policy Act of 1982 and asserted damages for the cost of on-site storage. Duke Energy Progress and Duke Energy Florida asserted damages for the period January 1, 2011, through December 31, 2013, of \$48 million and \$25 million, respectively. On November 17, 2017, the Court awarded Duke Energy Progress and Duke Energy Florida \$48 million and \$21 million, respectively, subject to appeal. No appeals were filed and Duke Energy Progress and Duke Energy Florida will recognize the recoveries in the first quarter of 2018. Claims for all periods through 2013 have been resolved. Additional claims will be filed in 2018.

Duke Energy Progress

Gypsum Supply Agreements Matter

On June 30, 2017, CertainTeed Gypsum NC, Inc. (CertainTeed) filed a declaratory judgment action against Duke Energy Progress in the North Carolina Business Court relating to a gypsum supply agreement. In its complaint, CertainTeed seeks an order from the court declaring that the minimum amount of gypsum Duke Energy Progress must provide to CertainTeed under the supply agreement is 50,000 tons per month through 2029. On September 28, 2017, the Court denied CertainTeed's motion for summary judgment. Discovery in the case is underway and a trial date has not been set. In light of the volatility in future production of gypsum, Duke Energy Progress cannot predict the outcome of this matter.

Duke Energy Florida

Class-Action Lawsuit

On February 22, 2016, a lawsuit was filed in the U.S. District Court for the Southern District of Florida on behalf of a putative class of Duke Energy Florida and FP&L's customers in Florida. The suit alleges the State of Florida's nuclear power plant cost recovery statutes (NCRS) are unconstitutional and pre-empted by federal law. Plaintiffs claim they are entitled to repayment of all money paid by customers of Duke Energy Florida and FP&L as a result of the NCRS, as well as an injunction against any future charges under those statutes. The constitutionality of the NCRS has been challenged unsuccessfully in a number of prior cases on alternative grounds. Duke Energy Florida and FP&L filed motions to dismiss the complaint on May 5, 2016. On September 21, 2016, the Court granted the motions to dismiss with prejudice. Plaintiffs filed a motion for reconsideration, which was denied. On January 4, 2017, plaintiffs filed a notice of appeal to the U.S. Court of Appeals. The appeal, which has been fully briefed, was heard on August 22, 2017, and a decision is pending. Duke Energy Florida cannot predict the outcome of this appeal.

Westinghouse Contract Litigation

On March 28, 2014, Duke Energy Florida filed a lawsuit against Westinghouse in the U.S. District Court for the Western District of North Carolina. The lawsuit seeks recovery of \$54 million in milestone payments in excess of work performed under the terminated EPC for Levy as well as a determination by the court of the amounts due to Westinghouse as a result of the termination of the EPC. Duke Energy Florida recognized an exit obligation as a result of the termination of the EPC contract.

On March 31, 2014, Westinghouse filed a lawsuit against Duke Energy Florida in U.S. District Court for the Western District of Pennsylvania. The Pennsylvania lawsuit alleged damages under the EPC in excess of \$510 million for engineering and design work, costs to end supplier contracts and an alleged termination fee.

On June 9, 2014, the judge in the North Carolina case ruled that the litigation will proceed in the Western District of North Carolina. On July 11, 2016, Duke Energy Florida and Westinghouse filed separate Motions for Summary Judgment. On September 29, 2016, the court issued its ruling on the parties' respective Motions for Summary Judgment, ruling in favor of Westinghouse on a \$30 million termination fee claim and dismissing Duke Energy Florida's \$54 million refund claim, but stating that Duke Energy Florida could use the refund claim to offset any damages for termination costs. Westinghouse's claim for termination costs was unaffected by this ruling and continued to trial. At trial, Westinghouse reduced its claim for termination costs from \$482 million to \$424 million. Following a trial on the matter, the court issued its final order in December 2016 denying Westinghouse's claim for termination costs and re-affirming its earlier ruling in favor of Westinghouse on the \$30 million termination fee and Duke Energy Florida's refund claim. Judgment was entered against Duke Energy Florida in the amount of approximately \$34 million, which includes pre-judgment interest. Westinghouse has appealed the trial court's order and Duke Energy Florida has cross-appealed. Duke Energy Florida cannot predict the ultimate outcome of the appeal of the trial court's order.

On March 29, 2017, Westinghouse filed Chapter 11 bankruptcy in the Southern District of New York, which automatically stayed the appeal. On May 23, 2017, the bankruptcy court entered an order lifting the stay with respect to the appeal. Briefing of the appeal concluded on October 20, 2017. Oral argument in the appeal was originally set for March 2018 but has tentatively been rescheduled to May 2018, due to scheduling conflicts.

Ultimate resolution of these matters could have a material effect on the results of operations, financial position or cash flows of Duke Energy Florida. See discussion of the 2017 Settlement and the Levy Nuclear Project in Note 4 for additional information regarding recovery of costs related to Westinghouse. The 2017 Settlement does not permit recovery of any amounts paid to resolve this contract litigation.

MGP Cost Recovery Action

On December 30, 2011, Duke Energy Florida filed a lawsuit against FirstEnergy Corp. (FirstEnergy) to recover investigation and remediation costs incurred by Duke Energy Florida in connection with the restoration of two former MGP sites in Florida. Duke Energy Florida alleged that FirstEnergy, as the successor to Associated Gas & Electric Co., owes past and future contribution and response costs of up to \$43 million for the investigation and remediation of MGP sites. On December 6, 2016, the trial court entered judgment against Duke Energy Florida in the case. In January 2017, Duke Energy Florida appealed the decision to the U.S. Court of Appeals for the Sixth Circuit, which has been fully briefed and argued. Duke Energy Florida cannot predict the outcome of this appeal.

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Duke Energy Ohio

Antitrust Lawsuit

In January 2008, four plaintiffs, including individual, industrial and nonprofit customers, filed a lawsuit against Duke Energy Ohio in federal court in the Southern District of Ohio. Plaintiffs alleged Duke Energy Ohio conspired to provide inequitable and unfair price advantages for certain large business consumers by entering into nonpublic option agreements in exchange for their withdrawal of challenges to Duke Energy Ohio's Rate Stabilization Plan implemented in early 2005. In March 2014, a federal judge certified this matter as a class action. Plaintiffs alleged claims of antitrust violations under the federal Robinson Patman Act as well as fraud and conspiracy allegations under the federal Racketeer Influenced and Corrupt Organizations statute and the Ohio Corrupt Practices Act.

During 2015, the parties received preliminary court approval of a settlement agreement. Duke Energy Ohio recorded a litigation settlement reserve of \$81 million classified in Other within Current Liabilities on the Consolidated Balance Sheet at December 31, 2015. Duke Energy Ohio also recognized a pretax charge of \$81 million in (Loss) Income From Discontinued Operations, net of tax in the Consolidated Statements of Operations and Comprehensive Income for the year ended December 31, 2015. The settlement agreement was approved at a federal court hearing on April 19, 2016. Distribution of the settlement checks was approved by the court in January 2017 and all settlement amounts have been paid. See Note 2 for further discussion on the Midwest Generation Exit.

Other Litigation and Legal Proceedings

The Duke Energy Registrants are involved in other legal, tax and regulatory proceedings arising in the ordinary course of business, some of which involve significant amounts. The Duke Energy Registrants believe the final disposition of these proceedings will not have a material effect on their results of operations, cash flows or financial position.

The table below presents recorded reserves based on management's best estimate of probable loss for legal matters, excluding asbestos-related reserves and the exit obligation discussed above related to the termination of an EPC contract. Reserves are classified on the Consolidated Balance Sheets in Other within Other Noncurrent Liabilities and Accounts payable and Other within

The following table presents executory purchased power contracts with terms exceeding one year, excluding contracts classified as leases. Amounts at Duke Energy Ohio were immaterial.

(in millions)	Contract Expiration	Minimum Purchase Amount at December 31, 2017							Total
		2018	2019	2020	2021	2022	Thereafter		
Duke Energy Progress ^(a)	2019-2031	\$ 68	\$ 68	\$ 51	\$ 52	\$ 30	\$ 239	\$ 508	
Duke Energy Florida ^(b)	2021-2043	357	374	394	378	376	770	2,649	

(a) Contracts represent between 15 percent and 100 percent of net plant output.

(b) Contracts represent between 81 percent and 100 percent of net plant output.

Gas Supply and Capacity Contracts

Duke Energy Ohio and Piedmont routinely enter into long-term natural gas supply commodity and capacity commitments and other agreements that commit future cash flows to acquire services needed in their businesses. These commitments include pipeline and storage capacity contracts and natural gas supply contracts to provide service to customers. Costs arising from the natural gas supply commodity and capacity commitments, while significant, are pass-

Current Liabilities. The reasonably possible range of loss in excess of recorded reserves is not material, other than as described above.

(in millions)	December 31,	
	2017	2016
Reserves for Legal Matters		
Duke Energy	\$ 88	\$ 98
Duke Energy Carolinas	30	23
Progress Energy	55	59
Duke Energy Progress	13	14
Duke Energy Florida	24	28
Duke Energy Ohio	—	4
Piedmont	2	2

OTHER COMMITMENTS AND CONTINGENCIES

General

As part of their normal business, the Duke Energy Registrants are party to various financial guarantees, performance guarantees and other contractual commitments to extend guarantees of credit and other assistance to various subsidiaries, investees and other third parties. These guarantees involve elements of performance and credit risk, which are not fully recognized on the Consolidated Balance Sheets and have unlimited maximum potential payments. However, the Duke Energy Registrants do not believe these guarantees will have a material effect on their results of operations, cash flows or financial position.

Purchase Obligations

Purchased Power

Duke Energy Progress, Duke Energy Florida and Duke Energy Ohio have ongoing purchased power contracts, including renewable energy contracts, with other utilities, wholesale marketers, co-generators and qualified facilities. These purchased power contracts generally provide for capacity and energy payments. In addition, Duke Energy Progress and Duke Energy Florida have various contracts to secure transmission rights.

through costs to customers and are generally fully recoverable through the fuel adjustment or PGA procedures and prudence reviews in North Carolina and South Carolina and under the Tennessee Incentive Plan in Tennessee. In the Midwest, these costs are recovered via the Gas Cost Recovery Rate in Ohio or the Gas Cost Adjustment Clause in Kentucky. The time periods for fixed payments under pipeline and storage capacity contracts are up to 19 years. The time periods for fixed payments under natural gas supply contracts are up to three years. The time period for the natural gas supply purchase commitments is up to 15 years.

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Certain storage and pipeline capacity contracts require the payment of demand charges that are based on rates approved by the FERC in order to maintain rights to access the natural gas storage or pipeline capacity on a firm basis during the contract term. The demand charges that are incurred in each period are recognized in the Consolidated Statements of Operations and Comprehensive Income as part of natural gas purchases and are included in Cost of natural gas.

The following table presents future unconditional purchase obligations under natural gas supply and capacity contracts as of December 31, 2017.

(in millions)	Duke Energy	Duke Energy Ohio	Piedmont
2018	\$ 314	\$ 37	\$ 277
2019	280	28	252
2020	252	25	227
2021	249	26	223
2022	226	11	215
Thereafter	1,121	3	1,118
Total	\$ 2,442	\$ 130	\$ 2,312

Operating and Capital Lease Commitments

The Duke Energy Registrants lease office buildings, railcars, vehicles, computer equipment and other property and equipment with various terms and expiration dates. Additionally, Duke Energy Progress has a capital lease related to firm natural gas pipeline transportation capacity. Duke Energy Progress and Duke Energy Florida have entered into certain purchased

power agreements, which are classified as leases. Consolidated capitalized lease obligations are classified as Long-Term Debt or Other within Current Liabilities on the Consolidated Balance Sheets. Amortization of assets recorded under capital leases is included in Depreciation and amortization and Fuel used in electric generation on the Consolidated Statements of Operations.

The following tables present rental expense for operating leases. These amounts are included in Operation, maintenance and other on the Consolidated Statements of Operations.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Duke Energy	\$241	\$242	\$ 313
Duke Energy Carolinas	44	45	41
Progress Energy	130	140	230
Duke Energy Progress	75	68	149
Duke Energy Florida	55	72	81
Duke Energy Ohio	15	16	13
Duke Energy Indiana	23	23	20

(in millions)	Year Ended	Two Months Ended	Years Ended October 31,	
	December 31, 2017	December 31, 2016	2016	2015
Piedmont	\$ 7	\$ 1	\$ 5	\$ 5

The following table presents future minimum lease payments under operating leases, which at inception had a non-cancelable term of more than one year.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2018	\$ 233	\$ 36	\$ 133	\$ 77	\$ 56	\$ 20	\$ 22	\$ 6
2019	203	29	126	72	54	12	14	5
2020	183	25	117	62	55	10	10	5
2021	150	19	97	48	49	7	8	6
2022	135	16	90	42	48	4	5	6
Thereafter	882	52	525	344	181	5	7	16
Total	\$ 1,786	\$ 177	\$ 1,088	\$ 645	\$ 443	\$ 58	\$ 66	\$ 44

The following table presents future minimum lease payments under capital leases.

(in millions)	December 31, 2017						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
2018	\$ 168	\$ 13	\$ 46	\$ 21	\$ 25	\$ 3	\$ 2
2019	169	13	45	20	25	1	1
2020	174	13	47	21	26	—	1
2021	176	8	45	22	25	—	1
2022	169	8	45	21	24	—	1
Thereafter	745	109	323	227	95	—	38
Minimum annual payments	1,601	164	551	332	220	4	44
Less: amount representing interest	(601)	(103)	(283)	(192)	(91)	—	(33)
Total	\$ 1,000	\$ 61	\$ 268	\$ 140	\$ 129	\$ 4	\$ 11

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6. DEBT AND CREDIT FACILITIES

SUMMARY OF DEBT AND RELATED TERMS

The following tables summarize outstanding debt.

(in millions)	December 31, 2017								
	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured debt, maturing 2018-2073	4.17%	\$ 20,409	\$ 1,150	\$ 3,950	\$ —	\$ 550	\$ 900	\$ 411	\$ 2,050
Secured debt, maturing 2018-2037	3.15%	4,458	450	1,757	300	1,457	—	—	—
First mortgage bonds, maturing 2018-2047 ^(a)	4.51%	23,529	7,959	11,801	6,776	5,025	1,100	2,669	—
Capital leases, maturing 2018-2051 ^(b)	4.55%	1,000	61	269	139	129	5	11	—
Tax-exempt bonds, maturing 2019-2041 ^(c)	3.23%	941	243	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	1.57%	2,788	—	—	—	—	—	—	—
Money pool/intercompany borrowings		—	404	955	390	—	54	311	364
Fair value hedge carrying value adjustment		6	6	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)		1,582	(19)	(30)	(16)	(10)	(33)	(9)	(1)
Unamortized debt issuance costs ^(f)		(271)	(47)	(108)	(40)	(56)	(7)	(21)	(12)
Total debt	4.09%	\$ 54,442	\$ 10,207	\$ 18,642	\$ 7,597	\$ 7,095	\$ 2,096	\$ 3,944	\$ 2,401
Short-term notes payable and commercial paper		(2,163)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings		—	(104)	(805)	(240)	—	(29)	(161)	(364)
Current maturities of long-term debt ^(g)		(3,244)	(1,205)	(771)	(3)	(768)	(3)	(3)	(250)
Total long-term debt^(g)		\$ 49,035	\$ 8,898	\$ 17,066	\$ 7,354	\$ 6,327	\$ 2,064	\$ 3,780	\$ 1,787

(a) Substantially all electric utility property is mortgaged under mortgage bond indentures.

(b) Duke Energy includes \$81 million and \$603 million of capital lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to power purchase agreements that are not accounted for as capital leases in their respective financial statements because of grandfathering provisions in GAAP.

(c) Substantially all tax-exempt bonds are secured by first mortgage bonds or letters of credit.

(d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper program was 14 days.

(e) Duke Energy includes \$1,509 million and \$176 million in purchase accounting adjustments related to Progress Energy and Piedmont, respectively.

(f) Duke Energy includes \$47 million in purchase accounting adjustments primarily related to the merger with Progress Energy.

(g) Refer to Note 17 for additional information on amounts from consolidated VIEs.

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Combined Notes to Consolidated Financial Statements – (Continued)

December 31, 2016									
(in millions)	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured debt, maturing 2017-2073	4.30%	\$ 17,812	\$ 1,150	\$ 3,551	\$ —	\$ 150	\$ 810	\$ 415	\$ 1,835
Secured debt, maturing 2017-2037	2.60%	3,909	425	1,819	300	1,519	—	—	—
First mortgage bonds, maturing 2017-2046 ^(a)	4.61%	21,879	7,410	10,800	6,425	4,375	1,000	2,669	—
Capital leases, maturing 2018-2051 ^(b)	4.48%	1,100	22	285	142	143	7	11	—
Tax-exempt bonds, maturing 2017-2041 ^(c)	2.84%	1,053	355	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	1.01%	3,112	—	—	—	—	—	—	—
Money pool/intercompany borrowings ^(e)		—	300	1,902	150	297	41	150	—
Fair value hedge carrying value adjustment		6	6	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(f)		1,753	(20)	(31)	(16)	(10)	(28)	(9)	(1)
Unamortized debt issuance costs ^(g)		(242)	(45)	(104)	(38)	(52)	(7)	(22)	(13)
Total debt	4.07%	\$ 50,382	\$ 9,603	\$ 18,270	\$ 7,011	\$ 6,422	\$ 1,900	\$ 3,786	\$ 1,821
Short-term notes payable and commercial paper		(2,487)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings		—	—	(729)	—	(297)	(16)	—	—
Current maturities of long-term debt ^(h)		(2,319)	(116)	(778)	(452)	(326)	(1)	(3)	(35)
Total long-term debt^(h)		\$ 45,576	\$ 9,487	\$ 16,763	\$ 6,559	\$ 5,799	\$ 1,883	\$ 3,783	\$ 1,786

- (a) Substantially all electric utility property is mortgaged under mortgage bond indentures.
- (b) Duke Energy includes \$98 million and \$670 million of capital lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to power purchase agreements that are not accounted for as capital leases in their respective financial statements because of grandfathering provisions in GAAP.
- (c) Substantially all tax-exempt bonds are secured by first mortgage bonds or letters of credit.
- (d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy and Piedmont's commercial paper programs were 14 days and eight days, respectively.
- (e) Progress Energy amount includes a \$1 billion intercompany loan related to the sale of the International Disposal Group. See Note 2 for further discussion of the sale.
- (f) Duke Energy includes \$1,653 million and \$197 million purchase accounting adjustments related to the mergers with Progress Energy and Piedmont, respectively.
- (g) Duke Energy includes \$53 million in purchase accounting adjustments primarily related to the merger with Progress Energy.
- (h) Refer to Note 17 for additional information on amounts from consolidated VIEs.

CURRENT MATURITIES OF LONG-TERM DEBT

The following table shows the significant components of Current maturities of Long-Term Debt on the Consolidated Balance Sheets. The Duke Energy Registrants currently anticipate satisfying these obligations with cash on hand and proceeds from additional borrowings.

(in millions)	Maturity Date	Interest Rate	December 31, 2017
Unsecured Debt			
Duke Energy (Parent)	June 2018	6.250%	\$ 250
Duke Energy (Parent)	June 2018	2.100%	500
Piedmont	December 2018	2.286% ^(b)	250
First Mortgage Bonds			
Duke Energy Carolinas	January 2018	5.250%	400
Duke Energy Carolinas	April 2018	5.100%	300
Duke Energy Florida	June 2018	5.650%	500
Duke Energy Carolinas	November 2018	7.000%	500
Other^(a)			544
Current maturities of long-term debt			\$ 3,244

- (a) Includes capital lease obligations, amortizing debt and small bullet maturities.
- (b) Debt has a floating interest rate.

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Maturities and Call Options

The following table shows the annual maturities of long-term debt for the next five years and thereafter. Amounts presented exclude short-term notes payable and commercial paper and money pool borrowings for the Subsidiary Registrants.

(in millions)	December 31, 2017							Piedmont
	Duke Energy ^(a)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
2018	\$ 3,244	\$ 1,205	\$ 771	\$ 3	\$ 768	\$ 3	\$ 3	\$ 250
2019	3,563	6	2,191	903	490	548	61	—
2020	3,699	906	871	304	568	—	502	—
2021	3,760	502	1,472	602	371	48	69	159
2022	3,010	302	1,176	653	74	23	243	—
Thereafter	33,271	7,182	11,356	4,892	4,824	1,445	2,905	1,628
Total long-term debt, including current maturities	\$ 50,547	\$ 10,103	\$ 17,837	\$ 7,357	\$ 7,095	\$ 2,067	\$ 3,783	\$ 2,037

(a) Excludes \$1,732 million in purchase accounting adjustments related to the Progress Energy merger and the Piedmont acquisition.

The Duke Energy Registrants have the ability under certain debt facilities to call and repay the obligation prior to its scheduled maturity. Therefore, the actual timing of future cash repayments could be materially different than as presented above.

Short-Term Obligations Classified as Long-Term Debt

Tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder and certain commercial paper issuances and money pool borrowings are classified as Long-Term Debt on the Consolidated Balance Sheets. These tax-exempt bonds, commercial paper issuances and money pool borrowings, which are short-term obligations by nature, are classified as long term due to Duke Energy's intent and ability to utilize such borrowings as long-term financing. As Duke Energy's Master Credit Facility and other bilateral letter of credit agreements have non-cancelable terms in excess of one year as of the balance sheet date, Duke Energy has the ability to refinance these short-term obligations on a long-term basis. The following tables show short-term obligations classified as long-term debt.

(in millions)	December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(in millions)	December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 347	\$ 35	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 972	\$ 335	\$ 150	\$ 52	\$ 435

(a) Progress Energy amounts are equal to Duke Energy Progress amounts.

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Summary of Significant Debt Issuances

The following tables summarize significant debt issuances (in millions).

Issuance Date	Maturity Date	Interest Rate	Year Ended December 31, 2017					
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Unsecured Debt								
April 2017 ^(a)	April 2025	3.364%	\$ 420	\$ 420	\$ —	\$ —	\$ —	\$ —
June 2017 ^(b)	June 2020	2.100%	330	330	—	—	—	—
August 2017 ^(c)	August 2022	2.400%	500	500	—	—	—	—
August 2017 ^(c)	August 2027	3.150%	750	750	—	—	—	—
August 2017 ^(c)	August 2047	3.950%	500	500	—	—	—	—
December 2017 ^(d)	December 2019 ^(k)	2.100%	400	—	—	—	400	—
Secured Debt								
February 2017 ^(e)	June 2034	4.120%	587	—	—	—	—	—
August 2017 ^(f)	December 2036	4.110%	233	—	—	—	—	—
First Mortgage Bonds								
January 2017 ^(g)	January 2020	1.850%	250	—	—	—	250	—
January 2017 ^(g)	January 2027	3.200%	650	—	—	—	650	—
March 2017 ^(h)	June 2046	3.700%	100	—	—	—	—	100
September 2017 ⁽ⁱ⁾	September 2020	1.500% ^(j)	300	—	—	300	—	—
September 2017 ⁽ⁱ⁾	September 2047	3.600%	500	—	—	500	—	—
November 2017 ^(l)	December 2047	3.700%	550	—	550	—	—	—
Total issuances			\$ 6,070	\$ 2,500	\$ 550	\$ 800	\$ 1,300	\$ 100

- (a) Proceeds were used to refinance \$400 million of unsecured debt at maturity and to repay a portion of outstanding commercial paper.
- (b) Debt issued to repay a portion of outstanding commercial paper.
- (c) Debt issued to repay at maturity \$700 million of unsecured debt, to repay outstanding commercial paper and for general corporate purposes.
- (d) Debt issued to fund storm restoration costs related to Hurricane Irma and for general corporate purposes.
- (e) Portfolio financing of four Texas and Oklahoma wind facilities. Duke Energy pledged substantially all of the assets of these wind facilities and is nonrecourse to Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures.
- (f) Portfolio financing of eight solar facilities located in California, Colorado and New Mexico. Duke Energy pledged substantially all of the assets of these solar facilities and is nonrecourse to Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures.
- (g) Debt issued to fund capital expenditures for ongoing construction and capital maintenance, to repay a \$250 million aggregate principal amount of bonds at maturity and for general corporate purposes.
- (h) Proceeds were used to fund capital expenditures for ongoing construction, capital maintenance and for general corporate purposes.
- (i) Debt issued to repay at maturity a \$200 million aggregate principal amount of bonds at maturity, pay down intercompany short-term debt and for general corporate purposes, including capital expenditures.
- (j) Debt issued to refinance \$400 million aggregate principal amount of bonds due January 2018, pay down intercompany short-term debt and for general corporate purposes.
- (k) Principal balance will be repaid in equal quarterly installments beginning in March 2018.
- (l) Debt issuance has a floating interest rate.

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Issuance Date	Maturity Date	Interest Rate	Year Ended December 31, 2016						
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Unsecured Debt									
April 2016 ^(a)	April 2023	2.875%	\$ 350	\$ 350	\$ —	\$ —	\$ —	\$ —	\$ —
August 2016 ^(b)	September 2021	1.800%	750	750	—	—	—	—	—
August 2016 ^(b)	September 2026	2.650%	1,500	1,500	—	—	—	—	—
August 2016 ^(b)	September 2046	3.750%	1,500	1,500	—	—	—	—	—
Secured Debt									
June 2016 ^(c)	March 2020	1.196%	183	—	—	—	183	—	—
June 2016 ^(c)	September 2022	1.731%	150	—	—	—	150	—	—
June 2016 ^(c)	September 2029	2.538%	436	—	—	—	436	—	—
June 2016 ^(c)	March 2033	2.858%	250	—	—	—	250	—	—
June 2016 ^(c)	September 2036	3.112%	275	—	—	—	275	—	—
August 2016 ^(d)	June 2034	2.747% ^(e)	228	—	—	—	—	—	—
August 2016 ^(d)	June 2020	2.747% ^(e)	105	—	—	—	—	—	—
First Mortgage Bonds									
March 2016 ^(f)	March 2023	2.500%	500	—	500	—	—	—	—
March 2016 ^(f)	March 2046	3.875%	500	—	500	—	—	—	—
May 2016 ^(g)	May 2046	3.750%	500	—	—	—	—	—	500
June 2016 ^(h)	June 2046	3.700%	250	—	—	—	—	250	—
September 2016 ⁽ⁱ⁾	October 2046	3.400%	600	—	—	—	600	—	—
September 2016 ⁽ⁱ⁾	October 2046	3.700%	450	—	—	450	—	—	—
November 2016 ⁽ⁱ⁾	December 2046	2.950%	600	—	600	—	—	—	—
Total issuances			\$ 9,127	\$ 4,100	\$ 1,600	\$ 450	\$ 1,894	\$ 250	\$ 500

- (a) Proceeds were used to pay down outstanding commercial paper and for general corporate purposes.
- (b) Proceeds were used to finance a portion of the Piedmont acquisition. The \$4.9 billion Bridge Facility was terminated following the issuance of this debt. See Note 2 for additional information on the Piedmont acquisition.
- (c) DEFPF issued nuclear-asset recovery bonds and used the proceeds to acquire nuclear-asset recovery property from its parent, Duke Energy Florida. The nuclear-asset recovery bonds are payable only from and secured by the nuclear asset-recovery property. DEFPF is consolidated for financial reporting purposes; however, the nuclear asset-recovery bonds do not constitute a debt, liability or other legal obligation of, or interest in, Duke Energy Florida or any of its affiliates other than DEFPF. The assets of DEFPF, including the nuclear-asset recovery property, are not available to pay creditors of Duke Energy Florida or any of its affiliates. Duke Energy Florida used the proceeds from the sale to repay short-term borrowings under the intercompany money pool borrowing arrangement and make an equity distribution of \$649 million to the ultimate parent, Duke Energy (Parent), which repaid short-term borrowings. The nuclear-asset recovery bonds are sequential pay amortizing bonds. The maturity date above represents the scheduled final maturity date for the bonds. See Notes 4 and 17 for additional information.
- (d) Emerald State Solar, LLC, an indirect wholly owned subsidiary of Duke Energy entered into portfolio financing of approximately 22 North Carolina solar facilities. Tranche A of \$228 million is secured by substantially all of the assets of the solar facilities and is nonrecourse to Duke Energy. Tranche B of \$105 million is secured by an Equity Contribution Agreement with Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures related to the Emerald State Solar, LLC portfolio. The initial interest rate on the loans was six months London Interbank Offered Rate (LIBOR) plus an applicable margin of 1.75 percent plus a 0.125 percent increase every three years thereafter. In connection with this debt issuance, Emerald State Solar, LLC entered into two interest rate swaps to convert the substantial majority of the loan interest payments from variable rates to fixed rates of approximately 1.81 percent for Tranche A and 1.38 percent for Tranche B, plus the applicable margin. See Note 14 for further information on the notional amounts of the interest rate swaps.
- (e) Proceeds were used to fund capital expenditures for ongoing construction, capital maintenance and for general corporate purposes.
- (f) Proceeds were used to repay \$325 million of unsecured debt due June 2016, \$150 million of first mortgage bonds due July 2016 and for general corporate purposes.
- (g) Proceeds were used to fund capital expenditures for ongoing construction, capital maintenance, to repay short-term borrowings under the intercompany money pool borrowing arrangement and for general corporate purposes.
- (h) Proceeds were used to repay at maturity \$350 million aggregate principal amount of certain bonds due December 2016, as well as to fund capital expenditures for ongoing construction and capital maintenance and for general corporate purposes.
- (i) Debt issuance has a floating interest rate.

In July 2016, Piedmont issued \$300 million unsecured notes maturing in November 2046 with an interest rate of 3.64%. Piedmont has the option to redeem all or part of the notes before May 1, 2046, at a redemption price equal to the greater of a) 100% of the principal amount of the notes to be redeemed, and b) the sum of the present values of the remaining scheduled payments of principal and interest on the notes to be redeemed, discounted to the date of redemption on a semi-annual basis at the Treasury Rate as defined in the indenture, as supplemented, plus 25 basis points and any accrued and unpaid interest to the date of redemption. Piedmont has the option to redeem all or part of the notes on or after May 1, 2046, at 100% of the principal amounts plus any accrued and unpaid interest to the date of redemption. Piedmont used the proceeds to fund capital expenditures, to repay short-term borrowings under Piedmont's commercial paper program and for general corporate purposes.

Available Credit Facilities

In March 2017, Duke Energy amended its Master Credit Facility to increase its capacity from \$7.5 billion to \$8 billion, and to extend the termination date of the facility from January 30, 2020, to March 16, 2022. The amendment also added Piedmont as a borrower within the Master Credit Facility. Piedmont's separate \$850 million credit facility was terminated in connection with the amendment. With the amendment, the Duke Energy Registrants, excluding Progress Energy (Parent), have borrowing capacity under the Master Credit Facility up to specified sublimits for each borrower. Duke Energy has the unilateral ability at any time to increase or decrease the borrowing sublimits of each borrower, subject to a maximum sublimit for each borrower. The amount available under the Master Credit Facility has been

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reduced to backstop issuances of commercial paper, certain letters of credit and variable-rate demand tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder. Duke Energy Carolinas and Duke Energy Progress are also required to each maintain \$250 million of available capacity under the Master Credit Facility as security to meet obligations under

plea agreements reached with the U.S. Department of Justice in 2015 related to violations at North Carolina facilities with ash basins.

In January 2018, Duke Energy further amended its Master Credit Facility with consenting lenders to extend \$7.65 billion of our existing \$8 billion Master Credit Facility by one year to March 16, 2023.

The table below includes the current borrowing sublimits and available capacity under these credit facilities.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Facility size ^(a)	\$ 8,000	\$ 2,850	\$ 1,350	\$ 1,250	\$ 800	\$ 450	\$ 600	\$ 700
Reduction to backstop issuances								
Commercial paper ^(b)	(1,799)	(561)	(371)	(314)	—	(45)	(260)	(248)
Outstanding letters of credit	(63)	(54)	(4)	(2)	(1)	—	—	(2)
Tax-exempt bonds	(81)	—	—	—	—	—	(81)	—
Coal ash set-aside	(500)	—	(250)	(250)	—	—	—	—
Available capacity	\$ 5,557	\$ 2,235	\$ 725	\$ 684	\$ 799	\$ 405	\$ 259	\$ 450

(a) Represents the sublimit of each borrower.

(b) Duke Energy issued \$625 million of commercial paper and loaned the proceeds through the money pool to Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio and Duke Energy Indiana. The balances are classified as Long-Term Debt Payable to Affiliated Companies in the Consolidated Balance Sheets.

Three-Year Revolving Credit Facility

In June 2017, Duke Energy (Parent) entered into a three-year \$1.0 billion revolving credit facility (the Three Year Revolver). Borrowings under this facility will be used for general corporate purposes.

As of December 31, 2017, \$500 million has been drawn under the Three Year Revolver. This balance is classified as Long-Term Debt on Duke Energy's Consolidated Balance Sheets. Any undrawn commitments can be drawn, and borrowings can be prepaid, at any time throughout the term of the facility. The terms and conditions of the Three Year Revolver are generally consistent with those governing Duke Energy's Master Credit Facility.

Piedmont Term Loan Facility

In June 2017, Piedmont entered into an 18-month term loan facility with commitments totaling \$250 million (the Piedmont Term Loan). Borrowings under the facility will be used for general corporate purposes.

As of December 31, 2017, the entire \$250 million has been drawn under the Piedmont Term Loan. This balance is classified as Long-Term Debt on Piedmont's Consolidated Balance Sheets. The terms and conditions of the Piedmont Term Loan are generally consistent with those governing Duke Energy's Master Credit Facility.

Other Debt Matters

In September 2016, Duke Energy filed a Registration statement (Form S-3) with the SEC. Under this Form S-3, which is uncapped, the Duke Energy Registrants, excluding Progress Energy, may issue debt and other securities in the future at amounts, prices and with terms to be determined at the time of future offerings. The registration statement was filed to replace a similar prior filing upon expiration of its three-year term and also allows for the issuance of common stock by Duke Energy.

Duke Energy has an effective Form S-3 with the SEC to sell up to \$3 billion of variable denomination floating-rate demand notes, called PremierNotes. The Form S-3 states that no more than \$1.5 billion of the notes will be outstanding at any particular time. The notes are offered on a continuous basis

and bear interest at a floating rate per annum determined by the Duke Energy PremierNotes Committee, or its designee, on a weekly basis. The interest rate payable on notes held by an investor may vary based on the principal amount of the investment. The notes have no stated maturity date, are non-transferable and may be redeemed in whole or in part by Duke Energy or at the investor's option at any time. The balance as of December 31, 2017, and 2016 was \$986 million and \$1,090 million, respectively. The notes are short-term debt obligations of Duke Energy and are reflected as Notes payable and commercial paper on Duke Energy's Consolidated Balance Sheets.

In January 2017, Duke Energy amended its Form S-3 to add Piedmont as a registrant and included in the amendment a prospectus for Piedmont under which it may issue debt securities in the same manner as other Duke Energy Registrants.

Duke Energy guaranteed debt issued by Duke Energy Carolinas of \$650 million and \$762 million, respectively, as of December 31, 2017, and 2016.

Money Pool

The Subsidiary Registrants, excluding Progress Energy, are eligible to receive support for their short-term borrowing needs through participation with Duke Energy and certain of its subsidiaries in a money pool arrangement. Under this arrangement, those companies with short-term funds may provide short-term loans to affiliates participating in this arrangement. The money pool is structured such that the Subsidiary Registrants, excluding Progress Energy, separately manage their cash needs and working capital requirements. Accordingly, there is no net settlement of receivables and payables between money pool participants. Duke Energy (Parent), may loan funds to its participating subsidiaries, but may not borrow funds through the money pool. Accordingly, as the money pool activity is between Duke Energy and its wholly owned subsidiaries, all money pool balances are eliminated within Duke Energy's Consolidated Balance Sheets.

Money pool receivable balances are reflected within Notes receivable from affiliated companies on the Subsidiary Registrants' Consolidated Balance Sheets. Money pool payable balances are reflected within either Notes payable to affiliated companies or Long-Term Debt Payable to Affiliated Companies on the Subsidiary Registrants' Consolidated Balance Sheets.

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Restrictive Debt Covenants

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio not to exceed 65 percent for each borrower, excluding Piedmont, and 70 percent for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements. As of December 31, 2017, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or

some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Other Loans

As of December 31, 2017, and 2016, Duke Energy had loans outstanding of \$701 million, including \$38 million at Duke Energy Progress and \$661 million, including \$39 million at Duke Energy Progress, respectively, against the cash surrender value of life insurance policies it owns on the lives of its executives. The amounts outstanding were carried as a reduction of the related cash surrender value that is included in Other within Investments and Other Assets on the Consolidated Balance Sheets.

7. GUARANTEES AND INDEMNIFICATIONS

Duke Energy and Progress Energy have various financial and performance guarantees and indemnifications, which are issued in the normal course of business. As discussed below, these contracts include performance guarantees, stand-by letters of credit, debt guarantees, surety bonds and indemnifications. Duke Energy and Progress Energy enter into these arrangements to facilitate commercial transactions with third parties by enhancing the value of the transaction to the third party. At December 31, 2017, Duke Energy and Progress Energy do not believe conditions are likely for significant performance under these guarantees. To the extent liabilities are incurred as a result of the activities covered by the guarantees, such liabilities are included on the accompanying Consolidated Balance Sheets.

On January 2, 2007, Duke Energy completed the spin-off of its natural gas businesses to shareholders. Guarantees issued by Duke Energy or its affiliates, or assigned to Duke Energy prior to the spin-off, remained with Duke Energy subsequent to the spin-off. Guarantees issued by Spectra Energy Capital, LLC (Spectra Capital) or its affiliates prior to the spin-off remained with Spectra Capital subsequent to the spin-off, except for guarantees that were later assigned to Duke Energy. Duke Energy has indemnified Spectra Capital against any losses incurred under certain of the guarantee obligations that remain with Spectra Capital. At December 31, 2017, the maximum potential amount of future payments associated with these guarantees was \$205 million, the majority of which expires by 2028.

Duke Energy has issued performance guarantees to customers and other third parties that guarantee the payment and performance of other parties, including certain non-wholly owned entities, as well as guarantees of debt of certain non-consolidated entities and less than wholly owned consolidated entities. If such entities were to default on payments or performance, Duke Energy would be required under the guarantees to make payments on the obligations of the less than wholly owned entity. The maximum potential amount of future payments required under these guarantees as of December 31, 2017, was \$326 million. Of this amount, \$11 million relates to guarantees issued on behalf of less than wholly owned consolidated entities, with the remainder related to guarantees issued on behalf of third parties and unconsolidated affiliates of Duke Energy. Of the guarantees noted above, \$281 million of the guarantees expire between 2019 and 2030, with the remaining performance guarantees having no contractual expiration.

In October 2017, ACP executed a \$3.4 billion revolving credit facility with a stated maturity date of October 2021. Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's

maximum exposure to loss under the terms of the guarantee is limited to 47 percent of the outstanding borrowings under the credit facility, which was \$312 million as of December 31, 2017.

Duke Energy has guaranteed certain issuers of surety bonds, obligating itself to make payment upon the failure of a wholly owned and former non-wholly owned entity to honor its obligations to a third party. Under these arrangements, Duke Energy has payment obligations that are triggered by a draw by the third party or customer due to the failure of the wholly owned or former non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2017, Duke Energy had guaranteed \$81 million of outstanding surety bonds, most of which have no set expiration.

Duke Energy uses bank-issued stand-by letters of credit to secure the performance of wholly owned and non-wholly owned entities to a third party or customer. Under these arrangements, Duke Energy has payment obligations to the issuing bank that are triggered by a draw by the third party or customer due to the failure of the wholly owned or non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2017, Duke Energy had issued a total of \$449 million in letters of credit, which expire between 2018 and 2022. The unused amount under these letters of credit was \$66 million.

Duke Energy and Progress Energy have issued indemnifications for certain asset performance, legal, tax and environmental matters to third parties, including indemnifications made in connection with sales of businesses. At December 31, 2017, the estimated maximum exposure for these indemnifications was \$89 million, most of which have no set expiration. For certain matters for which Progress Energy receives timely notice, indemnity obligations may extend beyond the notice period. Certain indemnifications related to discontinued operations have no limitations as to time or maximum potential future payments.

Duke Energy recognized \$21 million and \$13 million, as of December 31, 2017, and 2016, respectively, primarily in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets, for the guarantees discussed above. As current estimates change, additional losses related to guarantees and indemnifications to third parties, which could be material, may be recorded by the Duke Energy Registrants in the future.

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8. JOINT OWNERSHIP OF GENERATING AND TRANSMISSION FACILITIES

The Duke Energy Registrants maintain ownership interests in certain jointly owned generating and transmission facilities. The Duke Energy Registrants are entitled to a share of the generating capacity and output of each unit equal to their respective ownership interests. The Duke Energy Registrants pay their ownership share of additional construction costs, fuel inventory

purchases and operating expenses. The Duke Energy Registrants share of revenues and operating costs of the jointly owned facilities is included within the corresponding line in the Consolidated Statements of Operations. Each participant in the jointly owned facilities must provide its own financing.

The following table presents the Duke Energy Registrants' interest of jointly owned plant or facilities and amounts included on the Consolidated Balance Sheets. All facilities are operated by the Duke Energy Registrants and are included in the Electric Utilities and Infrastructure segment.

(in millions except for ownership interest)	December 31, 2017			
	Ownership Interest	Property, Plant and Equipment	Accumulated Depreciation	Construction Work in Progress
Duke Energy Carolinas				
Catawba Nuclear Station (units 1 and 2) ^(a)	19.25%	\$ 927	\$ 651	\$ 19
Lee Combined Combustion Station ^(b)	86.67%	—	—	552
Duke Energy Ohio				
Transmission facilities ^(c)	Various	89	63	1
Duke Energy Indiana				
Gibson Station (unit 5) ^(d)	50.05%	348	162	9
Vermillion Generating Station ^(e)	62.5%	155	120	—
Transmission and local facilities ^(e)	Various	4,672	1,739	—

(a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and Piedmont Municipal Power Agency.

(b) Jointly owned with NCEMC.

(c) Jointly owned with America Electric Power Generation Resources and The Dayton Power and Light Company.

(d) Jointly owned with Wabash Valley Power Association, Inc. (WVPA) and Indiana Municipal Power Agency.

(e) Jointly owned with WVPA.

9. ASSET RETIREMENT OBLIGATIONS

Duke Energy records an ARO when it has a legal obligation to incur retirement costs associated with the retirement of a long-lived asset and the obligation can be reasonably estimated. Certain assets of the Duke Energy Registrants' have an indeterminate life, such as transmission and distribution facilities, and thus the fair value of the retirement obligation is not reasonably estimable. A liability for these AROs will be recorded when a fair value is determinable.

The Duke Energy Registrants' regulated operations accrue costs of removal for property that does not have an associated legal retirement obligation based on regulatory orders from state commissions. These costs of removal are recorded as a regulatory liability in accordance with regulatory accounting treatment. The Duke Energy Registrants do not accrue the estimated cost of removal for any nonregulated assets. See Note 4 for the estimated cost of removal for assets without an associated legal retirement obligation, which are included in Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the AROs recorded on the Consolidated Balance Sheets.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Decommissioning of nuclear power facilities ^(a)	\$ 5,371	\$ 1,944	\$ 3,246	\$ 2,564	\$ 681	\$ —	\$ —	\$ —
Closure of ash impoundments	4,525	1,629	2,094	2,075	19	39	763	—
Other ^(b)	279	37	74	34	42	45	18	15
Total asset retirement obligation	\$ 10,175	\$ 3,610	\$ 5,414	\$ 4,673	\$ 742	\$ 84	\$ 781	\$ 15
Less: current portion	689	337	295	295	—	3	54	—
Total noncurrent asset retirement obligation	\$ 9,486	\$ 3,273	\$ 5,119	\$ 4,378	\$ 742	\$ 81	\$ 727	\$ 15

(a) Duke Energy amount includes purchase accounting adjustments related to the merger with Progress Energy.

(b) Primarily includes obligations related to asbestos removal. Duke Energy Ohio and Piedmont also include AROs related to the retirement of natural gas mains and services. Duke Energy includes AROs related to the removal of renewable energy generation assets.

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Nuclear Decommissioning Liability

AROs related to nuclear decommissioning are based on site-specific cost studies. The NCUC, PSCSC and FPSC require updated cost estimates for decommissioning nuclear plants every five years.

The following table summarizes information about the most recent site-specific nuclear decommissioning cost studies. Decommissioning costs in the table below are stated in 2013 or 2014 dollars, depending on the year of the cost study, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	Annual Funding Requirement ^(a)	Decommissioning Costs ^{(a)(b)}	Year of Cost Study
Duke Energy	\$ 14	\$ 8,150	2013 and 2014
Duke Energy Carolinas	—	3,420	2013
Duke Energy Progress	14	3,550	2014
Duke Energy Florida	—	1,180	2013

(a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.

(b) Amounts include the Subsidiary Registrant's ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.

Nuclear Decommissioning Trust Funds

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida each maintain NDTFs that are intended to pay for the decommissioning costs of their respective nuclear power plants. The NDTF investments are managed and invested in accordance with applicable requirements of various regulatory bodies including the NRC, FERC, NCUC, PSCSC, FPSC and the Internal Revenue Service (IRS).

Use of the NDTF investments is restricted to nuclear decommissioning activities including license termination, spent fuel and site restoration. The license termination and spent fuel obligations relate to contaminated decommissioning and are recorded as AROs. The site restoration obligation relates to non-contaminated decommissioning and is recorded to cost of removal within Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the fair value of NDTF assets legally restricted for purposes of settling AROs associated with nuclear decommissioning. Duke Energy Florida is actively decommissioning Crystal River Unit 3 and was granted an exemption from the NRC which allows for use of the NDTF for all aspects of nuclear decommissioning. The entire balance of Duke Energy Florida's NDTF may be applied toward license termination, spent fuel and site restoration costs incurred to decommission Crystal River Unit 3. See Note 16 for additional information related to the fair value of the Duke Energy Registrants' NDTFs.

(in millions)	December 31,	
	2017	2016
Duke Energy	\$ 5,864	\$ 5,099
Duke Energy Carolinas	3,321	2,882
Duke Energy Progress	2,543	2,217

Nuclear Operating Licenses

Operating licenses for nuclear units are potentially subject to extension. The following table includes the current expiration of nuclear operating licenses.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033

Unit	Year of Expiration
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

Duke Energy Florida has requested the NRC terminate the operating license for Crystal River Unit 3 as it permanently ceased operation in February 2013. In January 2018, Crystal River Unit 3 reached a SAFSTOR status.

Closure of Ash Impoundments

The Duke Energy Registrants are subject to state and federal regulations covering the closure of coal ash impoundments, including the EPA CCR rule and the Coal Ash Act, and other agreements. AROs recorded on the Duke Energy Registrants' Consolidated Balance Sheets include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of these regulations and agreements.

The Coal Ash Act, as amended, requires excavation of the Sutton, Riverbend and Dan River basins by August 1, 2019, and Asheville basins by August 1, 2022. Excavation at these sites may include a combination of transfer of coal ash to an engineered landfill or conversion for beneficial use. Basins at the H.F. Lee, Cape Fear and Weatherspoon sites are required to be closed through excavation no later than August 1, 2028. Excavation at these sites can include conversion of the basin to a lined industrial landfill, transfer of ash to an engineered landfill or conversion for beneficial use. The remaining basins are required to be closed no later than December 31, 2024, through conversion to a lined industrial landfill, transfer to an engineered landfill or conversion for beneficial use, unless certain dam improvement projects and alternative drinking water source projects are completed by October 15, 2018. Upon satisfactory completion of these projects, the closure deadline would be extended to December 31, 2029, and could include closure through the combination of a cap system and a groundwater monitoring system.

The Coal Ash Act also required the installation and operation of three large-scale coal ash beneficiation projects to produce reprocessed ash for use in the concrete industry. Duke Energy selected the Buck, H.F. Lee and Cape Fear plants for these projects. Closure at these sites is required to be completed no later than December 31, 2029.

The Coal Ash Act includes a variance procedure for compliance deadlines and other issues surrounding the management of CCR and CCR surface impoundments and prohibits cost recovery in customer rates for unlawful discharge of ash impoundment waters occurring after January 1, 2014. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of ash impoundments to the normal ratemaking processes before utility regulatory commissions. Closure plans and all associated permits must be approved by NCDEQ before any closure work can begin.

The EPA CCR rule establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring and protection procedures and other operational and reporting procedures to ensure the safe disposal and management of CCR. The EPA CCR rule has certain requirements which if not met could initiate impoundment closure and require closure completion within five years. The EPA CCR rule includes extension requirements, which if met could allow the extension of closure completion by up to 10 years.

The ARO amount recorded on the Consolidated Balance Sheets is based upon estimated closure costs for impacted ash impoundments. The amount

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recorded represents the discounted cash flows for estimated closure costs based upon either specific closure plans or the probability weightings of the potential closure methods as evaluated on a site-by-site basis. Actual costs to be incurred will be dependent upon factors that vary from site to site. The most significant factors are the method and time frame of closure at the individual sites. Closure methods considered include removing the water from ash basins, consolidating material as necessary and capping the ash with a synthetic barrier, excavating and relocating the ash to a lined structural fill or lined landfill or recycling the ash for concrete or some other beneficial use. The ultimate method and timetable for closure will be in compliance with standards set by federal and state regulations and other agreements. The ARO amount will be adjusted as additional information is gained through the closure and post-closure process, including acceptance and approval of compliance approaches which may change management assumptions, and may result in a material change to the balance. See ARO Liability Rollforward section below for information on revisions made to the coal ash liability during 2017 and 2016.

Asset retirement costs associated with the AROs for operating plants and retired plants are included in Net property, plant and equipment and Regulatory assets, respectively, on the Consolidated Balance Sheets. See Note 4 for additional information on Regulatory assets related to AROs.

Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. See Note 4 for additional information on recovery of coal ash costs.

ARO Liability Rollforward

During 2017 and 2016, the Duke Energy Registrants updated coal ash ARO liability estimates based on additional site-specific information for the related costs, methods and timing of work to be performed. Actual closure costs incurred could be materially different from current estimates that form the basis of the recorded AROs.

The following tables present changes in the liability associated with AROs.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Balance at December 31, 2015	\$ 10,249	\$ 3,918	\$ 5,369	\$ 4,567	\$ 802	\$ 125	\$ 525
Acquisitions ^(a)	22	—	2	—	2	—	—
Accretion expense ^(b)	400	187	230	194	35	5	24
Liabilities settled ^(c)	(613)	(287)	(272)	(212)	(60)	(5)	(49)
Liabilities incurred in the current year	51	—	3	3	—	—	29
Revisions in estimates of cash flows	502	77	143	145	(1)	(48)	337
Balance at December 31, 2016	10,611	3,895	5,475	4,697	778	77	866
Accretion expense ^(b)	435	184	228	195	33	3	32
Liabilities settled ^(c)	(619)	(282)	(270)	(204)	(65)	(7)	(49)
Liabilities incurred in the current year ^(d)	51	5	—	—	—	7	29
Revisions in estimates of cash flows	(303)	(192)	(19)	(15)	(4)	4	(97)
Balance at December 31, 2017	\$ 10,175	\$ 3,610	\$ 5,414	\$ 4,673	\$ 742	\$ 84	\$ 781

(a) Duke Energy amount relates to the Piedmont acquisition. See Note 2 for additional information.

(b) Substantially all accretion expense for the years ended December 31, 2017, and 2016 relates to Duke Energy's regulated electric operations and has been deferred in accordance with regulatory accounting treatment.

(c) Amounts primarily relate to ash impoundment closures and nuclear decommissioning of Crystal River Unit 3.

(d) Amounts primarily relate to AROs recorded as a result of state agency closure requirements at Duke Energy Indiana.

(in millions)	Piedmont
Balance at October 31, 2015	\$ 20
Accretion expense	1
Liabilities settled	(7)
Liabilities incurred in the current year	6
Revisions in estimates of cash flows	(6)
Balance at October 31, 2016	14
Liabilities settled	(1)
Liabilities incurred in the current year	1
Balance at December 31, 2016	14
Accretion expense	1
Liabilities settled	(8)
Liabilities incurred in the current year	8
Balance at December 31, 2017	\$ 15

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10. PROPERTY, PLANT AND EQUIPMENT

The following tables summarize the property, plant and equipment for Duke Energy and its subsidiary registrants.

(in millions)	Estimated Useful Life (Years)	December 31, 2017							
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 1,559	\$ 467	\$ 767	\$ 424	\$ 343	\$ 134	\$ 111	\$ 41
Plant – Regulated									
Electric generation, distribution and transmission	8-100	93,687	35,657	39,419	24,502	14,917	4,870	13,741	—
Natural gas transmission and distribution	12-80	8,292	—	—	—	—	2,559	—	5,733
Other buildings and improvements	15-100	1,936	647	652	316	336	243	240	154
Plant – Nonregulated									
Electric generation, distribution and transmission ^(a)	5-30	4,273	—	—	—	—	—	—	—
Other buildings and improvements	25-35	465	—	—	—	—	—	—	—
Nuclear fuel		3,680	2,120	1,560	1,560	—	—	—	—
Equipment	3-55	2,122	402	555	416	139	348	169	266
Construction in process		6,995	2,614	3,059	1,434	1,625	350	416	231
Other	3-40	4,498	1,032	1,311	931	370	228	271	300
Total property, plant and equipment ^{(b)(c)}		127,507	42,939	47,323	29,583	17,730	8,732	14,948	6,725
Total accumulated depreciation – regulated ^{(d)(e)}		(39,742)	(15,063)	(15,857)	(10,903)	(4,947)	(2,691)	(4,662)	(1,479)
Total accumulated depreciation – nonregulated ^{(d)(e)}		(1,795)	—	—	—	—	—	—	—
Generation facilities to be retired, net		421	—	421	421	—	—	—	—
Total net property, plant and equipment		\$ 86,391	\$ 27,876	\$ 31,887	\$ 19,101	\$ 12,783	\$ 6,041	\$ 10,286	\$ 5,246

- (a) Includes a pretax impairment charge of \$58 million on a wholly owned non-contracted wind project. See discussion below.
- (b) Includes capitalized leases of \$1,294 million, \$81 million, \$272 million, \$139 million, \$133 million, \$80 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$114 million, \$11 million and \$103 million, respectively, of accumulated amortization of capitalized leases.
- (c) Includes \$2,113 million, \$1,283 million, \$831 million and \$831 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.
- (d) Includes accumulated amortization of capitalized leases of \$57 million, \$11 million, \$21 million and \$9 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.
- (e) Includes gross property, plant and equipment cost of consolidated VIEs of \$3,941 million and accumulated depreciation of consolidated VIEs of \$598 million at Duke Energy.

(in millions)	Estimated Useful Life (Years)	December 31, 2016							
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 1,501	\$ 432	\$ 735	\$ 393	\$ 342	\$ 150	\$ 106	\$ 39
Plant – Regulated									
Electric generation, distribution and transmission	8-100	89,864	34,515	37,596	23,683	13,913	4,593	13,160	—
Natural gas transmission and distribution	12-67	7,738	—	—	—	—	2,456	—	5,282
Other buildings and improvements	15-100	1,692	502	634	293	341	211	197	148
Plant – Nonregulated									
Electric generation, distribution and transmission	5-30	4,298	—	—	—	—	—	—	—
Other buildings and improvements	25-35	421	—	—	—	—	—	—	—
Nuclear fuel		3,572	2,092	1,480	1,480	—	—	—	—
Equipment	3-38	1,941	358	505	378	127	338	156	260
Construction in process		6,186	2,324	2,708	1,329	1,379	206	396	210
Other	5-40	4,184	904	1,206	863	332	172	226	235
Total property, plant and equipment ^{(b)(c)}		121,397	41,127	44,864	28,419	16,434	8,126	14,241	6,174
Total accumulated depreciation – regulated ^{(b)(c)(d)}		(37,831)	(14,365)	(15,212)	(10,561)	(4,644)	(2,579)	(4,317)	(1,360)
Total accumulated depreciation – nonregulated ^{(b)(c)(d)}		(1,575)	—	—	—	—	—	—	—
Generation facilities to be retired, net		529	—	529	529	—	—	—	—
Total net property, plant and equipment		\$ 82,520	\$ 26,762	\$ 30,181	\$ 18,387	\$ 11,790	\$ 5,547	\$ 9,924	\$ 4,814

- (a) Includes capitalized leases of \$1,355 million, \$40 million, \$288 million, \$142 million, \$146 million, \$81 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$99 million, \$9 million and \$90 million, respectively, of accumulated amortization of capitalized leases.
- (b) Includes \$1,922 million, \$1,192 million, \$730 million and \$730 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.
- (c) Includes accumulated amortization of capitalized leases of \$50 million, \$9 million, \$19 million and \$8 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.
- (d) Includes gross property, plant and equipment cost of consolidated VIEs of \$2,591 million and accumulated depreciation of consolidated VIEs of \$411 million at Duke Energy.

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During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset; see Note 11 for additional information. The charge represents the excess carrying value over the estimated fair value

of the project, which was based on a Level 3 Fair Value measurement that was determined from the income approach using discounted cash flows. The impairment was primarily due to the non-contracted wind project being located in a market that has experienced continued declining market pricing during 2017 and declining long-term forecasted energy and capacity prices, driven by low natural gas prices, additional renewable generation placed in service and lack of significant load growth.

The following tables present capitalized interest, which includes the debt component of AFUDC.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Duke Energy	\$128	\$100	\$ 98
Duke Energy Carolinas	45	38	38
Progress Energy	45	31	24
Duke Energy Progress	21	17	20
Duke Energy Florida	24	14	4
Duke Energy Ohio	10	8	10
Duke Energy Indiana	9	7	6

(in millions)	Year Ended	Two Months Ended	Years Ended October 31,	
	December 31, 2017	December 31, 2016	2016	2015
Piedmont	\$ 12	\$ 2	\$ 12	\$ 11

Operating Leases

Duke Energy's Commercial Renewables segment operates various renewable energy projects and sells the generated output to utilities, electric cooperatives, municipalities and commercial and industrial customers through long-term contracts. In certain situations, these long-term contracts and the associated renewable energy projects qualify as operating leases. Rental income from these leases is accounted for as Operating Revenues in the Consolidated Statements of Operations. There are no minimum lease

payments as all payments are contingent based on actual electricity generated by the renewable energy projects. Contingent lease payments were \$262 million, \$216 million, and \$172 million for the years ended December 31, 2017, 2016 and 2015. As of December 31, 2017, renewable energy projects owned by Duke Energy and accounted for as operating leases had a cost basis of \$3,153 million and accumulated depreciation of \$459 million. These assets are principally classified as nonregulated electric generation and transmission assets.

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11. GOODWILL AND INTANGIBLE ASSETS

GOODWILL

Duke Energy

The following table presents goodwill by reportable operating segment for Duke Energy included on Duke Energy's Consolidated Balance Sheets at December 31, 2017, and 2016.

(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total
Goodwill Balance at December 31, 2016	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges ^(a)	—	—	(29)	(29)
Goodwill at December 31, 2017	\$ 17,379	\$ 1,924	\$ 93	\$ 19,396

(a) Duke Energy evaluated the recoverability of goodwill during 2017 and recorded impairment charges of \$29 million related to the Energy Management Solutions reporting unit within the Commercial Renewables segment. The fair value of the reporting unit was determined based on the market approach.

Duke Energy Ohio

Duke Energy Ohio's Goodwill balance of \$920 million, allocated \$596 million to Electric Utilities and Infrastructure and \$324 million to Gas Utilities and Infrastructure, is presented net of accumulated impairment charges of \$216 million on the Consolidated Balance Sheets at December 31, 2017, and 2016.

Intangible Assets

The following tables show the carrying amount and accumulated amortization of intangible assets included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets of the Duke Energy Registrants at December 31, 2017 and 2016.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 19	\$ 1	\$ 5	\$ 2	\$ 3	\$ —	\$ 13	\$ —
Renewable energy certificates	148	38	107	107	—	3	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	79	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	276	39	112	109	3	3	37	3
Accumulated amortization – natural gas, coal and power contracts	(19)	—	—	—	—	—	(19)	—
Accumulated amortization – renewable operating and development projects	(22)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(46)	—	—	—	—	—	(19)	(3)
Total intangible assets, net	\$ 230	\$ 39	\$ 112	\$ 109	\$ 3	\$ 3	\$ 18	\$ —

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(in millions)	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 19	\$ 1	\$ 6	\$ 2	\$ 4	\$ —	\$ 13	\$ —
Renewable energy certificates	125	36	84	84	—	4	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	97	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	271	37	90	86	4	4	37	3
Accumulated amortization – natural gas, coal and power contracts	(17)	—	—	—	—	—	(17)	—
Accumulated amortization – renewable operating and development projects	(23)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(45)	—	—	—	—	—	(17)	(3)
Total intangible assets, net	\$ 226	\$ 37	\$ 90	\$ 86	\$ 4	\$ 4	\$ 20	\$ —

During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset that was recorded in 2007 when the project was acquired. Prior to the impairment, the gross amount of the intangible asset was \$18 million and the accumulated amortization was \$7 million. The intangible asset was fully impaired. See Note 10 for additional information.

Amortization Expense

The following table presents amortization expense for natural gas, coal and power contracts, renewable operating projects and other intangible assets.

(in millions)	December 31,		
	2017	2016	2015
Duke Energy	\$ 7	\$ 6	\$ 5
Duke Energy Indiana	1	1	1

The table below shows the expected amortization expense for the next five years for intangible assets as of December 31, 2017. The expected amortization expense includes estimates of emission allowances consumption and estimates of consumption of commodities such as natural gas and coal under existing contracts, as well as estimated amortization related to renewable operating projects. The amortization amounts discussed below are estimates and actual amounts may differ from these estimates due to such factors as changes in consumption patterns, sales or impairments of emission allowances or other intangible assets, delays in the in-service dates of renewable assets, additional intangible acquisitions and other events.

(in millions)	2018	2019	2020	2021	2022
Duke Energy	\$ 3	\$ 2	\$ 2	\$ 2	\$ 2
Duke Energy Indiana	1	—	—	—	—

12. INVESTMENTS IN UNCONSOLIDATED AFFILIATES

EQUITY METHOD INVESTMENTS

Investments in domestic and international affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method.

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Combined Notes to Consolidated Financial Statements – (Continued)

The following table presents Duke Energy's investments in unconsolidated affiliates accounted for under the equity method, as well as the respective equity in earnings, by segment.

(in millions)	Years Ended December 31,				
	2017		2016		2015
	Investments	Equity in earnings	Investments	Equity in earnings	Equity in earnings
Electric Utilities and Infrastructure	\$ 89	\$ 5	\$ 93	\$ 5	\$ (2)
Gas Utilities and Infrastructure	763	62	566	19	1
Commercial Renewables	190	(5)	185	(82)	(6)
Other	133	57	81	43	76
Total	\$1,175	\$119	\$ 925	\$ (15)	\$ 69

During the years ended December 31, 2017, 2016 and 2015, Duke Energy received distributions from equity investments of \$13 million, \$31 million and \$104 million, respectively, which are included in Other assets within Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows. During the year ended December 31, 2017, Duke Energy received distributions from equity investments of \$281 million, which are included within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

During the year ended December 31, 2017, the two months ended December 31, 2016, and the years ended October 31, 2016, and 2015, Piedmont received distributions from equity investments of \$4 million, \$1 million, \$26 million and \$25 million, respectively, which are included in Other assets within Cash Flows from Operating Activities and \$2 million, \$1 million, \$18 million and \$2 million, respectively, which are included within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

Significant investments in affiliates accounted for under the equity method are discussed below.

Electric Utilities and Infrastructure

Duke Energy owns a 50 percent interest in Duke-American Transmission Co. (DATC) and in Pioneer Transmission, LLC (Pioneer), which build, own and operate electric transmission facilities in North America.

Gas Utilities and Infrastructure

The table below outlines Duke Energy's ownership interests in natural gas pipeline companies and natural gas storage facilities.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31, 2017	December 31, 2016
Pipeline Investments			
Atlantic Coast Pipeline, LLC ^(a)	47%	\$ 397	\$ 265
Sabal Trail Transmission, LLC	7.5%	219	140
Constitution Pipeline, LLC ^(a)	24%	81	82
Cardinal Pipeline Company, LLC ^(b)	21.49%	11	16
Storage Facilities			
Pine Needle LNG Company, LLC ^(a)	45%	13	16
Hardy Storage Company, LLC ^(b)	50%	42	47
Total Investments^(c)		\$ 763	\$ 566

(a) During the year ended December 31, 2017, Piedmont transferred its share of ownership interest in ACP and Constitution to a wholly owned subsidiary of Duke Energy at book value.

(b) Piedmont owns the Cardinal, Pine Needle and Hardy Storage investments.

(c) Duke Energy includes purchase accounting adjustments related to Piedmont.

In October 2017, Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. See Note 7 for additional information. As a result of the financing, ACP returned capital of \$265 million to Duke Energy.

Piedmont sold its 15 percent membership interest in SouthStar on October 3, 2016, for \$160 million resulting in an after tax gain of \$81 million during the year ended October 31, 2016. Piedmont's Equity in Earnings in SouthStar was \$19 million for the years ended October 31, 2016, and 2015.

For regulatory matters and other information on the ACP, Sabal Trail and Constitution investments, see Notes 4 and 17.

Commercial Renewables

In 2016, Duke Energy sold its interest in three of the Catamount Sweetwater, LLC wind farm projects. Duke Energy has a 47 percent ownership interest in each of the two other Catamount Sweetwater, LLC wind farm projects and 50 percent interest in DS Cornerstone, LLC, which owns wind farm projects in the U.S.

Impairment of Equity Method Investments

Duke Energy evaluated its investment in Constitution for OTTI as of December 31, 2017. Our impairment assessment uses a discounted cash flow income approach, including consideration of the severity and duration of any decline in fair value of our investment in the project. Our key inputs involve significant management judgments and estimates, including projections of the project's cash flows, selection of a discount rate and probability weighting of potential outcomes of legal and regulatory proceedings. Based upon these estimates using information known as of December 31, 2017, the fair value of Duke Energy's investment in Constitution approximated its carrying value. As a result, Duke Energy did not recognize any impairment charge in the year ended December 31, 2017. However, due to the FERC's January 2018 ruling and the resulting increase in uncertainty, Duke Energy is evaluating the potential to recognize a pretax impairment charge on its investment in Constitution during the first quarter of 2018 of up to the current carrying amount of the investment, net of salvage value and any cash and working capital returned. For additional information on the Constitution investment, see Note 4.

During the year ended December 31, 2016, Duke Energy recorded an OTTI of certain wind project investments. The \$71 million pretax impairment was recorded within Equity in earnings (losses) of unconsolidated affiliates on Duke Energy's Consolidated Statements of Operations. The other-than-temporary decline in value of these investments was primarily attributable to a sustained decline in market pricing where the wind investments are located, projected net losses for the projects and a reduction in the projected cash distribution to the class of investment owned by Duke Energy.

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Combined Notes to Consolidated Financial Statements – (Continued)

Other

Duke Energy owns a 17.5 percent indirect interest in NMC, which owns and operates a methanol and MTBE business in Jubail, Saudi Arabia. Duke Energy's economic ownership interest decreased from 25 percent to 17.5

percent with the successful startup of NMC's polyacetal production facility in 2017. Duke Energy retains 25 percent of the board representation and voting rights of NMC. The investment in NMC is accounted for under the equity method of accounting.

13. RELATED PARTY TRANSACTIONS

The Subsidiary Registrants engage in related party transactions in accordance with the applicable state and federal commission regulations. Refer to the Consolidated Balance Sheets of the Subsidiary Registrants for balances due to or due from related parties. Material amounts related to transactions with related parties included in the Consolidated Statements of Operations and Comprehensive Income are presented in the following table.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Duke Energy Carolinas			
Corporate governance and shared service expenses ^(a)	\$ 858	\$ 831	\$ 914
Indemnification coverages ^(b)	23	22	24
JDA revenue ^(c)	49	38	51
JDA expense ^(c)	145	156	183
Intercompany natural gas purchases ^(d)	9	2	—
Progress Energy			
Corporate governance and shared service expenses ^(a)	\$ 736	\$ 710	\$ 712
Indemnification coverages ^(b)	38	35	38
JDA revenue ^(c)	145	156	183
JDA expense ^(c)	49	38	51
Intercompany natural gas purchases ^(d)	77	19	—
Duke Energy Progress			
Corporate governance and shared service expenses ^(a)	\$ 438	\$ 397	\$ 403
Indemnification coverages ^(b)	15	14	16
JDA revenue ^(c)	145	156	183
JDA expense ^(c)	49	38	51
Intercompany natural gas purchases ^(d)	77	19	—
Duke Energy Florida			
Corporate governance and shared service expenses ^(a)	\$ 298	\$ 313	\$ 309
Indemnification coverages ^(b)	23	21	22
Duke Energy Ohio			
Corporate governance and shared service expenses ^(a)	\$ 363	\$ 356	\$ 342
Indemnification coverages ^(b)	5	5	6
Duke Energy Indiana			
Corporate governance and shared service expenses ^(a)	\$ 370	\$ 366	\$ 349
Indemnification coverages ^(b)	8	8	9
Piedmont			
Corporate governance and shared service expenses ^(a)	\$ 50		
Indemnification coverages ^(b)	2		
Intercompany natural gas sales ^(d)	86		

(a) The Subsidiary Registrants are charged their proportionate share of corporate governance and other shared services costs, primarily related to human resources, employee benefits, information technology, legal and accounting fees, as well as other third-party costs. These amounts are primarily recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.

(b) The Subsidiary Registrants incur expenses related to certain indemnification coverages through Bison, Duke Energy's wholly owned captive insurance subsidiary. These expenses are recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.

(c) Duke Energy Carolinas and Duke Energy Progress participate in a JDA, which allows the collective dispatch of power plants between the service territories to reduce customer rates. Revenues from the sale of power and expenses from the purchase of power pursuant to the JDA are recorded in Operating Revenues and Fuel used in electric generation and purchased power, respectively, on the Consolidated Statements of Operations and Comprehensive Income.

(d) Piedmont provides long-term natural gas delivery service to certain Duke Energy Carolinas and Duke Energy Progress natural gas-fired generation facilities. Piedmont records the sales in Regulated natural gas revenues, and Duke Energy Carolinas and Duke Energy Progress record the related purchases in Fuel used in electric generation and purchased power on their respective Consolidated Statements of Operations and Comprehensive Income. The amounts are not eliminated in accordance with rate-based accounting regulations. For the two months ended December 31, 2016, and for sales made subsequent to the acquisition for the year ended October 31, 2016, Piedmont recorded \$14 million and \$7 million, respectively, of natural gas sales with Duke Energy. For sales made prior to the acquisition for the year ended October 31, 2016, and for the year ended October 31, 2015, Piedmont recorded \$74 million and \$83 million, respectively, of natural gas sales with Duke Energy.

In addition to the amounts presented above, the Subsidiary Registrants have other affiliate transactions, including rental of office space, participation in a money pool arrangement, other operational transactions and their proportionate share of certain charged expenses. See Note 6 for more information regarding money pool. These transactions of the Subsidiary Registrants were not material for the years ended December 31, 2017, 2016 and 2015.

As discussed in Note 17, certain trade receivables have been sold by Duke Energy Ohio and Duke Energy Indiana to CRC, an affiliate formed by a subsidiary of Duke Energy. The proceeds obtained from the sales of receivables are largely cash but do include a subordinated note from CRC for a portion of the purchase price.

Refer to Note 2 for further information on the sale of the Midwest Generation Disposal Group.

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Equity Method Investments

Piedmont has related party transactions as a customer of its equity method investments in natural gas storage and transportation facilities. The following table presents expenses that are included in Cost of natural gas on Piedmont's Consolidated Statements of Operations and Comprehensive Income.

(in millions)	Type of expense	Year Ended	Two Months Ended	Years Ended October 31,	
		December 31,	December 31,	2016	2015
		2017	2016		
Cardinal	Transportation Costs	\$ 8	\$ 2	\$ 9	\$ 9
Pine Needle	Natural Gas Storage Costs	8	2	11	11
Hardy Storage	Natural Gas Storage Costs	9	2	9	9
Total		\$ 25	\$ 6	\$ 29	\$ 29

Piedmont had accounts payable to its equity method investments of \$2 million at December 31, 2017, and 2016 related to these transactions. These amounts are included in Accounts payable on the Consolidated Balance Sheets.

Intercompany Income Taxes

Duke Energy and the Subsidiary Registrants file a consolidated federal income tax return and other state and jurisdictional returns. The Subsidiary Registrants have a tax sharing agreement with Duke Energy for the allocation of consolidated tax liabilities and benefits. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. The following table includes the balance of intercompany income tax receivables and payables for the Subsidiary Registrants.

(in millions)	Duke	Progress	Duke	Duke	Duke	Duke	Piedmont
	Energy	Energy	Energy	Energy	Energy	Energy	
	Carolinas	Energy	Progress	Florida	Ohio	Indiana	
December 31, 2017							
Intercompany income tax receivable	\$ —	\$168	\$ —	\$44	\$ 22	\$ —	\$ 7
Intercompany income tax payable	44	—	21	—	—	35	—
December 31, 2016							
Intercompany income tax receivable	\$ 1	\$ —	\$ —	\$37	\$ —	\$ —	\$ —
Intercompany income tax payable	—	37	90	—	1	3	38

14. DERIVATIVES AND HEDGING

The Duke Energy Registrants use commodity and interest rate contracts to manage commodity price risk and interest rate risk. The primary use of commodity derivatives is to hedge the generation portfolio against changes in the prices of electricity and natural gas. Piedmont enters into natural gas supply contracts to provide diversification, reliability and natural gas cost benefits to its customers. Interest rate swaps are used to manage interest rate risk associated with borrowings.

All derivative instruments not identified as NPNS are recorded at fair value as assets or liabilities on the Consolidated Balance Sheets. Cash collateral related to derivative instruments executed under master netting arrangements is offset against the collateralized derivatives on the Consolidated Balance Sheets. The cash impacts of settled derivatives are recorded as operating activities on the Consolidated Statements of Cash Flows.

INTEREST RATE RISK

The Duke Energy Registrants are exposed to changes in interest rates as a result of their issuance or anticipated issuance of variable-rate and fixed-rate debt and commercial paper. Interest rate risk is managed by limiting variable-rate exposures to a percentage of total debt and by monitoring changes in interest rates. To manage risk associated with changes in interest rates, the Duke Energy Registrants may enter into interest rate swaps, U.S. Treasury lock agreements and other financial contracts. In anticipation of

certain fixed-rate debt issuances, a series of forward-starting interest rate swaps may be executed to lock in components of current market interest rates. These instruments are later terminated prior to or upon the issuance of the corresponding debt.

Cash Flow Hedges

For a derivative designated as hedging the exposure to variable cash flows of a future transaction, referred to as a cash flow hedge, the effective portion of the derivative's gain or loss is initially reported as a component of other comprehensive income and subsequently reclassified into earnings once the future transaction impacts earnings. Amounts for interest rate contracts are reclassified to earnings as interest expense over the term of the related debt. See the Consolidated Statements of Changes in Equity for gains and losses reclassified out of AOCI for the years ended December 31, 2017, and 2016. Duke Energy's interest rate derivatives designated as hedges include interest rate swaps used to hedge existing debt within the Commercial Renewables business.

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Undesignated Contracts

Undesignated contracts include contracts not designated as a hedge because they are accounted for under regulatory accounting and contracts that do not qualify for hedge accounting.

Duke Energy's interest rate swaps for its regulated operations employ regulatory accounting. With regulatory accounting, the mark-to-market gains or losses on the swaps are deferred as regulatory liabilities or regulatory assets, respectively. Regulatory assets and liabilities are amortized consistent with the

treatment of the related costs in the ratemaking process. The accrual of interest on the swaps is recorded as Interest Expense.

In August 2016, Duke Energy unwound \$1.4 billion of forward-starting interest rate swaps associated with the Piedmont acquisition financing described in Note 6. The swaps were considered undesignated as they did not qualify for hedge accounting. Losses on the swaps of \$190 million are included within Interest Expense on the Consolidated Statements of Operations for the year ended December 31, 2016. See Note 2 for additional information related to the Piedmont acquisition.

The following tables show notional amounts of outstanding derivatives related to interest rate risk.

(in millions)	December 31, 2017					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges ^(a)	\$ 660	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	927	400	500	250	250	27
Total notional amount	\$ 1,587	\$ 400	\$ 500	\$ 250	\$ 250	\$ 27

(in millions)	December 31, 2016					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges ^(a)	\$ 750	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	927	400	500	250	250	27
Total notional amount	\$ 1,677	\$ 400	\$ 500	\$ 250	\$ 250	\$ 27

(a) Duke Energy includes amounts related to consolidated VIEs of \$660 million and \$750 million at December 31, 2017, and 2016, respectively. During 2016, Duke Energy entered into interest rate swaps related to solar financing with an outstanding notional amount of \$300 million, including \$81 million of four-year swaps and \$219 million of 18-year swaps, at December 31, 2016. See note 6 for additional information related to the solar facilities financing.

COMMODITY PRICE RISK

The Duke Energy Registrants are exposed to the impact of changes in the prices of electricity purchased and sold in bulk power markets and coal and natural gas purchases, including Piedmont's natural gas supply contracts. Exposure to commodity price risk is influenced by a number of factors including the term of contracts, the liquidity of markets and delivery locations. For the Subsidiary Registrants, bulk power electricity and coal and natural gas

purchases flow through fuel adjustment clauses, formula based contracts or other cost sharing mechanisms. Differences between the costs included in rates and the incurred costs, including undesignated derivative contracts, are largely deferred as regulatory assets or regulatory liabilities. Piedmont policies allow for the use of financial instruments to hedge commodity price risks. The strategy and objective of these hedging programs are to use the financial instruments to reduce gas cost volatility for customers.

Volumes

The tables below include volumes of outstanding commodity derivatives. Amounts disclosed represent the absolute value of notional volumes of commodity contracts excluding NPNS. The Duke Energy Registrants have netted contractual amounts where offsetting purchase and sale contracts exist with identical delivery locations and times of delivery. Where all commodity positions are perfectly offset, no quantities are shown.

	December 31, 2017						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana	Piedmont
Electricity (gigawatt-hours)	34	—	—	—	—	34	—
Natural gas (millions of dekatherms)	770	105	183	133	50	2	480

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	December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana	Piedmont
Electricity (gigawatt-hours)	147	—	—	—	—	147	—
Natural gas (millions of dekatherms)	890	91	269	118	151	1	529

LOCATION AND FAIR VALUE OF DERIVATIVE ASSETS AND LIABILITIES RECOGNIZED IN THE CONSOLIDATED BALANCE SHEETS

The following tables show the fair value and balance sheet location of derivative instruments. Although derivatives subject to master netting arrangements are netted on the Consolidated Balance Sheets, the fair values presented below are shown gross and cash collateral on the derivatives has not been netted against the fair values shown.

Derivative Assets (in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 34	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2
Noncurrent	1	—	1	1	—	—	—	—
Total Derivative Assets – Commodity Contracts	\$ 35	\$ 2	\$ 3	\$ 2	\$ 1	\$ 1	\$ 27	\$ 2
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	15	—	—	—	—	—	—	—
Total Derivative Assets – Interest Rate Contracts	\$ 16	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Total Derivative Assets	\$ 51	\$ 2	\$ 3	\$ 2	\$ 1	\$ 1	\$ 27	\$ 2

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Derivative Liabilities		December 31, 2017						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 36	\$ 6	\$ 18	\$ 8	\$ 10	\$ —	\$ —	\$ 11
Noncurrent	146	4	10	4	—	—	—	131
Total Derivative Liabilities – Commodity Contracts	\$ 182	\$ 10	\$ 28	\$ 12	\$ 10	\$ —	\$ —	\$ 142
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 29	\$ 25	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	6	—	—	—	—	—	—	—
<i>Not Designated as Hedging Instruments</i>								
Current	1	—	1	—	—	1	—	—
Noncurrent	12	—	7	6	2	4	—	—
Total Derivative Liabilities – Interest Rate Contracts	\$ 48	\$ 25	\$ 8	\$ 6	\$ 2	\$ 5	\$ —	\$ —
Total Derivative Liabilities	\$ 230	\$ 35	\$ 36	\$ 18	\$ 12	\$ 5	\$ —	\$ 142

Derivative Assets		December 31, 2016						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 108	\$ 23	\$ 61	\$ 35	\$ 26	\$ 4	\$ 16	\$ 3
Noncurrent	32	10	21	10	11	1	—	—
Total Derivative Assets – Commodity Contracts	\$ 140	\$ 33	\$ 82	\$ 45	\$ 37	\$ 5	\$ 16	\$ 3
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Noncurrent	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
<i>Not Designated as Hedging Instruments</i>								
Current	3	—	3	1	2	—	—	—
Total Derivative Assets – Interest Rate Contracts	\$ 22	\$ —	\$ 3	\$ 1	\$ 2	\$ —	\$ —	\$ —
Total Derivative Assets	\$ 162	\$ 33	\$ 85	\$ 46	\$ 39	\$ 5	\$ 16	\$ 3

Derivative Liabilities		December 31, 2016						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 43	\$ —	\$ 12	\$ —	\$ 12	\$ —	\$ 2	\$ 35
Noncurrent	166	1	7	1	—	—	—	152
Total Derivative Liabilities – Commodity Contracts	\$ 209	\$ 1	\$ 19	\$ 1	\$ 12	\$ —	\$ 2	\$ 187
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 8	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	8	—	—	—	—	—	—	—
<i>Not Designated as Hedging Instruments</i>								
Current	1	—	—	—	—	1	—	—
Noncurrent	26	15	6	6	—	5	—	—
Total Derivative Liabilities – Interest Rate Contracts	\$ 43	\$ 15	\$ 6	\$ 6	\$ —	\$ 6	\$ —	\$ —
Total Derivative Liabilities	\$ 252	\$ 16	\$ 25	\$ 7	\$ 12	\$ 6	\$ 2	\$ 187

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OFFSETTING ASSETS AND LIABILITIES

The following tables present the line items on the Consolidated Balance Sheets where derivatives are reported. Substantially all of Duke Energy's outstanding derivative contracts are subject to enforceable master netting arrangements. The Gross amounts offset in the tables below show the effect of these netting arrangements on financial position and include collateral posted to offset the net position. The amounts shown are calculated by counterparty. Accounts receivable or accounts payable may also be available to offset exposures in the event of bankruptcy. These amounts are not included in the tables below.

Derivative Assets	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)								
Current								
Gross amounts recognized	\$ 35	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2
Gross amounts offset	—	—	—	—	—	—	—	—
Net amounts presented in Current Assets: Other	\$ 35	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2
Noncurrent								
Gross amounts recognized	\$ 16	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —
Gross amounts offset	—	—	—	—	—	—	—	—
Net amounts presented in Other Noncurrent Assets: Other	\$ 16	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —

Derivative Liabilities	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)								
Current								
Gross amounts recognized	\$ 66	\$ 31	\$ 19	\$ 8	\$ 10	\$ 1	\$ —	\$ 11
Gross amounts offset	(3)	(2)	(2)	(2)	—	—	—	—
Net amounts presented in Current Liabilities: Other	\$ 63	\$ 29	\$ 17	\$ 6	\$ 10	\$ 1	\$ —	\$ 11
Noncurrent								
Gross amounts recognized	\$ 164	\$ 4	\$ 17	\$ 10	\$ 2	\$ 4	\$ —	\$ 131
Gross amounts offset	(1)	—	(1)	(1)	—	—	—	—
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 163	\$ 4	\$ 16	\$ 9	\$ 2	\$ 4	\$ —	\$ 131

Derivative Assets	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)								
Current								
Gross amounts recognized	\$ 111	\$ 23	\$ 64	\$ 36	\$ 28	\$ 4	\$ 16	\$ 3
Gross amounts offset	(11)	—	(11)	—	(11)	—	—	—
Net amounts presented in Current Assets: Other	\$ 100	\$ 23	\$ 53	\$ 36	\$ 17	\$ 4	\$ 16	\$ 3
Noncurrent								
Gross amounts recognized	\$ 51	\$ 10	\$ 21	\$ 10	\$ 11	\$ 1	\$ —	\$ —
Gross amounts offset	(2)	(1)	(1)	(1)	—	—	—	—
Net amounts presented in Other Noncurrent Assets: Other	\$ 49	\$ 9	\$ 20	\$ 9	\$ 11	\$ 1	\$ —	\$ —

Derivative Liabilities	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)								
Current								
Gross amounts recognized	\$ 52	\$ —	\$ 12	\$ —	\$ 12	\$ 1	\$ 2	\$ 35
Gross amounts offset	(11)	—	(11)	—	(11)	—	—	—
Net amounts presented in Current Liabilities: Other	\$ 41	\$ —	\$ 1	\$ —	\$ 1	\$ 1	\$ 2	\$ 35
Noncurrent								
Gross amounts recognized	\$ 200	\$ 16	\$ 13	\$ 7	\$ —	\$ 5	\$ —	\$ 152
Gross amounts offset	(2)	(1)	(1)	(1)	—	—	—	—
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 198	\$ 15	\$ 12	\$ 6	\$ —	\$ 5	\$ —	\$ 152

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OBJECTIVE CREDIT CONTINGENT FEATURES

Certain derivative contracts contain objective credit contingent features. These features include the requirement to post cash collateral or letters of credit if specific events occur, such as a credit rating downgrade below investment grade. The following tables show information with respect to derivative contracts that are in a net liability position and contain objective credit-risk-related payment provisions.

(in millions)	December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Aggregate fair value of derivatives in a net liability position	\$ 59	\$ 35	\$ 25	\$ 15	\$ 10
Fair value of collateral already posted	—	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	59	35	25	15	10

(in millions)	December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Aggregate fair value of derivatives in a net liability position	\$ 34	\$ 16	\$ 18	\$ 6	\$ 12
Fair value of collateral already posted	—	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	34	16	18	6	12

The Duke Energy Registrants have elected to offset cash collateral and fair values of derivatives. For amounts to be netted, the derivative and cash collateral must be executed with the same counterparty under the same master netting arrangement.

15. INVESTMENTS IN DEBT AND EQUITY SECURITIES

The Duke Energy Registrants classify their investments in debt and equity securities as either trading or available-for-sale.

TRADING SECURITIES

Piedmont's investments in debt and equity securities held in rabbi trusts associated with certain deferred compensation plans are classified as trading securities. The fair value of these investments was \$1 million and \$5 million as of December 31, 2017, and 2016, respectively.

AVAILABLE-FOR-SALE (AFS) SECURITIES

All other investments in debt and equity securities are classified as AFS. Duke Energy's AFS securities are primarily comprised of investments held in (i) the nuclear decommissioning trust funds (NDTF) at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, (ii) grantor trusts at Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana related to OPEB plans and (iii) Bison.

Duke Energy classifies all other investments in debt and equity securities as long term, unless otherwise noted.

Investment Trusts

The investments within the NDTF investments and the Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana grantor trusts (Investment Trusts) are managed by independent investment managers with discretion to buy, sell and invest pursuant to the objectives set forth by the trust agreements. The Duke Energy Registrants have limited oversight of the day-to-day management of these investments. As a result, the ability to hold

investments in unrealized loss positions is outside the control of the Duke Energy Registrants. Accordingly, all unrealized losses associated with debt and equity securities within the Investment Trusts are considered OTTI and are recognized immediately.

Investments within the Investment Trusts generally qualify for regulatory accounting and accordingly realized and unrealized gains and losses are generally deferred as a regulatory asset or liability.

Substantially all amounts of the Duke Energy Registrants' gross unrealized holding losses as of December 31, 2017, and 2016, are considered OTTI on investments within Investment Trusts that have been recognized immediately as a regulatory asset.

Other AFS Securities

Unrealized gains and losses on all other AFS securities are included in other comprehensive income until realized, unless it is determined the carrying value of an investment is other-than-temporarily impaired. If an OTTI exists, the unrealized loss is included in earnings based on the criteria discussed below.

The Duke Energy Registrants analyze all investment holdings each reporting period to determine whether a decline in fair value should be considered other-than-temporary. Criteria used to evaluate whether an impairment associated with equity securities is other-than-temporary includes, but is not limited to, (i) the length of time over which the market value has been lower than the cost basis of the investment, (ii) the percentage decline compared to the cost of the investment and (iii) management's intent and ability to retain its investment for a period of time sufficient to allow for any anticipated recovery in market value. If a decline in fair value is determined to be other-than-temporary, the investment is written down to its fair value through a charge to earnings.

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If the entity does not have an intent to sell a debt security and it is not more likely than not management will be required to sell the debt security before the recovery of its cost basis, the impairment write-down to fair value would be recorded as a component of other comprehensive income, except for when it is determined a credit loss exists. In determining whether a credit loss exists, management considers, among other things, (i) the length of time and the extent to which the fair value has been less than the amortized cost basis, (ii) changes in the financial condition of the issuer of the security, or in the case of an asset backed security, the financial condition of the underlying loan obligors, (iii) consideration of underlying collateral and guarantees of amounts by government

entities, (iv) ability of the issuer of the security to make scheduled interest or principal payments and (v) any changes to the rating of the security by rating agencies. If a credit loss exists, the amount of impairment write-down to fair value is split between credit loss and other factors. The amount related to credit loss is recognized in earnings. The amount related to other factors is recognized in other comprehensive income. There were no material credit losses as of December 31, 2017, and 2016.

Other Investments amounts are recorded in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

DUKE ENERGY

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 115	\$ —	\$ —	\$ 111
Equity securities	2,805	27	4,914	2,092	54	4,106
Corporate debt securities	17	2	570	10	8	528
Municipal bonds	4	3	344	3	10	331
U.S. government bonds	11	7	1,027	10	8	984
Other debt securities	—	1	118	—	3	124
Total NDTF	\$ 2,837	\$ 40	\$ 7,088	\$ 2,115	\$ 83	\$ 6,184
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 15	\$ —	\$ —	\$ 25
Equity securities	59	—	123	38	—	104
Corporate debt securities	1	—	57	1	1	66
Municipal bonds	2	1	83	2	1	82
U.S. government bonds	—	—	41	—	1	51
Other debt securities	—	1	44	—	2	42
Total Other Investments	\$ 62	\$ 2	\$ 363	\$ 41	\$ 5	\$ 370
Total Investments	\$ 2,899	\$ 42	\$ 7,451	\$ 2,156	\$ 88	\$ 6,554

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 117
Due after one through five years	552
Due after five through 10 years	554
Due after 10 years	1,061
Total	\$ 2,284

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Realized gains	\$ 202	\$ 246	\$ 193
Realized losses	160	187	98

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DUKE ENERGY CAROLINAS

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 32	\$ —	\$ —	\$ 18
Equity securities	1,531	12	2,692	1,157	28	2,245
Corporate debt securities	9	2	359	5	6	354
Municipal bonds	—	1	60	1	2	67
U.S. government bonds	3	4	503	2	5	458
Other debt securities	—	1	112	—	3	116
Total NDTF	\$ 1,543	\$ 20	\$ 3,758	\$ 1,165	\$ 44	\$ 3,258
Other Investments						
Other debt securities	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ 3
Total Other Investments	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ 3
Total Investments	\$ 1,543	\$ 20	\$ 3,758	\$ 1,165	\$ 45	\$ 3,261

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 9
Due after one through five years	204
Due after five through 10 years	300
Due after 10 years	521
Total	\$ 1,034

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Realized gains	\$135	\$157	\$ 158
Realized losses	103	121	83

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Combined Notes to Consolidated Financial Statements – (Continued)

PROGRESS ENERGY

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 83	\$ —	\$ —	\$ 93
Equity securities	1,274	15	2,222	935	26	1,861
Corporate debt securities	8	—	211	5	2	174
Municipal bonds	4	2	284	2	8	264
U.S. government bonds	8	3	524	8	3	526
Other debt securities	—	—	6	—	—	8
Total NDTF	\$ 1,294	\$ 20	\$ 3,330	\$ 950	\$ 39	\$ 2,926
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 12	\$ —	\$ —	\$ 21
Municipal bonds	2	—	47	2	—	44
Total Other Investments	\$ 2	\$ —	\$ 59	\$ 2	\$ —	\$ 65
Total Investments	\$ 1,296	\$ 20	\$ 3,389	\$ 952	\$ 39	\$ 2,991

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 94
Due after one through five years	301
Due after five through 10 years	203
Due after 10 years	474
Total	\$ 1,072

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Realized gains	\$ 65	\$ 84	\$ 33
Realized losses	56	64	13

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DUKE ENERGY PROGRESS

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 50	\$ —	\$ —	\$ 45
Equity securities	980	12	1,795	704	21	1,505
Corporate debt securities	6	—	149	4	1	120
Municipal bonds	4	2	283	2	8	263
U.S. government bonds	5	2	310	5	2	275
Other debt securities	—	—	4	—	—	5
Total NDTF	\$ 995	\$ 16	\$ 2,591	\$ 715	\$ 32	\$ 2,213
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 1
Total Other Investments	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 1
Total Investments	\$ 995	\$ 16	\$ 2,592	\$ 715	\$ 32	\$ 2,214

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 21
Due after one through five years	219
Due after five through 10 years	146
Due after 10 years	360
Total	\$ 746

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Realized gains	\$54	\$71	\$ 26
Realized losses	48	55	11

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DUKE ENERGY FLORIDA

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 33	\$ —	\$ —	\$ 48
Equity securities	294	3	427	231	5	356
Corporate debt securities	2	—	62	1	1	54
Municipal bonds	—	—	1	—	—	1
U.S. government bonds	3	1	214	3	1	251
Other debt securities	—	—	2	—	—	3
Total NDTF^(a)	\$ 299	\$ 4	\$ 739	\$ 235	\$ 7	\$ 713
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 4
Municipal bonds	2	—	47	2	—	44
Total Other Investments	\$ 2	\$ —	\$ 48	\$ 2	\$ —	\$ 48
Total Investments	\$ 301	\$ 4	\$ 787	\$ 237	\$ 7	\$ 761

(a) During the year ended December 31, 2017, Duke Energy Florida continued to receive reimbursements from the NDTF for costs related to ongoing decommissioning activity of the Crystal River Unit 3 nuclear plant.

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 73
Due after one through five years	82
Due after five through 10 years	57
Due after 10 years	114
Total	\$ 326

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Realized gains	\$11	\$ 13	\$ 7
Realized losses	8	9	2

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DUKE ENERGY INDIANA

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
Other Investments						
Equity securities	\$ 49	\$ —	\$ 97	\$ 33	\$ —	\$ 79
Corporate debt securities	—	—	3	—	—	2
Municipal bonds	—	1	28	—	1	28
U.S. government bonds	—	—	—	—	—	1
Total Other Investments	\$ 49	\$ 1	\$ 128	\$ 33	\$ 1	\$ 110
Total Investments	\$ 49	\$ 1	\$ 128	\$ 33	\$ 1	\$ 110

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 5
Due after one through five years	12
Due after five through 10 years	7
Due after 10 years	7
Total	\$31

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were insignificant for the years ended December 31, 2017, 2016 and 2015.

16. FAIR VALUE MEASUREMENTS

Fair value is the exchange price to sell an asset or transfer a liability in an orderly transaction between market participants at the measurement date. The fair value definition focuses on an exit price versus the acquisition cost. Fair value measurements use market data or assumptions market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique. These inputs may be readily observable, corroborated by market data, or generally unobservable. Valuation techniques maximize the use of observable inputs and minimize use of unobservable inputs. A midmarket pricing convention (the midpoint price between bid and ask prices) is permitted for use as a practical expedient.

Fair value measurements are classified in three levels based on the fair value hierarchy:

Level 1 – Unadjusted quoted prices in active markets for identical assets or liabilities that the reporting entity can access at the measurement date. An active market is one in which transactions for an asset or liability occur with sufficient frequency and volume to provide ongoing pricing information.

Level 2 – A fair value measurement utilizing inputs other than quoted prices included in Level 1 that are observable, either directly or indirectly, for an asset or liability. Inputs include (i) quoted prices for similar assets or liabilities in active markets, (ii) quoted prices for identical or similar assets or liabilities in markets that are not active, and (iii) inputs other than quoted market prices that

are observable for the asset or liability, such as interest rate curves and yield curves observable at commonly quoted intervals, volatilities and credit spreads. A Level 2 measurement cannot have more than an insignificant portion of its valuation based on unobservable inputs. Instruments in this category include non-exchange-traded derivatives, such as over-the-counter forwards, swaps and options; certain marketable debt securities; and financial instruments traded in less than active markets.

Level 3 – Any fair value measurement which includes unobservable inputs for more than an insignificant portion of the valuation. These inputs may be used with internally developed methodologies that result in management's best estimate of fair value. Level 3 measurements may include longer-term instruments that extend into periods in which observable inputs are not available.

Not Categorized – Certain investments are not categorized within the Fair Value hierarchy. These investments are measured based on the fair value of the underlying investments but may not be readily redeemable at that fair value.

Fair value accounting guidance permits entities to elect to measure certain financial instruments that are not required to be accounted for at fair value, such as equity method investments or the company's own debt, at fair value. The Duke Energy Registrants have not elected to record any of these items at fair value.

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Transfers between levels represent assets or liabilities that were previously (i) categorized at a higher level for which the inputs to the estimate became less observable or (ii) classified at a lower level for which the inputs became more observable during the period. The Duke Energy Registrant's policy is to recognize transfers between levels of the fair value hierarchy at the end of the period. There were no transfers between levels during the years ended December 31, 2017, 2016 and 2015. In addition, for Piedmont, there were no transfers between levels during the two months ended December 31, 2016, and the years ended October 31, 2016, and 2015.

Valuation methods of the primary fair value measurements disclosed below are as follows.

Investments in equity securities

The majority of investments in equity securities are valued using Level 1 measurements. Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the quarter. Principal active markets for equity prices include published exchanges such as the New York Stock Exchange (NYSE) and the NASDAQ Stock Market. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. There was no after-hours market activity that was required to be reflected in the reported fair value measurements.

Investments in debt securities

Most investments in debt securities are valued using Level 2 measurements because the valuations use interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3.

DUKE ENERGY

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets. Derivative amounts in the table below for all Duke Energy Registrants exclude cash collateral, which is disclosed in Note 14. See Note 15 for additional information related to investments by major security type for the Duke Energy Registrants.

(in millions)	December 31, 2017				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,914	\$ 4,840	\$ —	\$ —	\$ 74
NDTF debt securities	2,174	635	1,539	—	—
Other AFS equity securities	123	123	—	—	—
Other trading and AFS debt securities	241	57	184	—	—
Derivative assets	51	3	20	28	—
Total assets	7,503	5,658	1,743	28	74
Derivative liabilities	(230)	(2)	(86)	(142)	—
Net assets (liabilities)	\$ 7,273	\$ 5,656	\$ 1,657	\$ (114)	\$ 74

Commodity derivatives

Commodity derivatives with clearinghouses are classified as Level 1. Other commodity derivatives, including Piedmont's natural gas supply contracts, are primarily valued using internally developed discounted cash flow models that incorporate forward price, adjustments for liquidity (bid-ask spread) and credit or non-performance risk (after reflecting credit enhancements such as collateral) and are discounted to present value. Pricing inputs are derived from published exchange transaction prices and other observable data sources. In the absence of an active market, the last available price may be used. If forward price curves are not observable for the full term of the contract and the unobservable period had more than an insignificant impact on the valuation, the commodity derivative is classified as Level 3. In isolation, increases (decreases) in natural gas forward prices result in favorable (unfavorable) fair value adjustments for gas purchase contracts; and increases (decreases) in electricity forward prices result in unfavorable (favorable) fair value adjustments for electricity sales contracts. Duke Energy regularly evaluates and validates pricing inputs used to estimate the fair value of natural gas commodity contracts by a market participant price verification procedure. This procedure provides a comparison of internal forward commodity curves to market participant generated curves.

Interest rate derivatives

Most over-the-counter interest rate contract derivatives are valued using financial models that utilize observable inputs for similar instruments and are classified as Level 2. Inputs include forward interest rate curves, notional amounts, interest rates and credit quality of the counterparties.

Other fair value considerations

See Note 11 for a discussion of the valuation of goodwill and intangible assets. See Note 2 related to the acquisition of Piedmont in 2016 and the purchase of NCEMPA's ownership interests in certain generating assets in 2015.

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(in millions)	December 31, 2016				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,106	\$ 4,029	\$ —	\$ —	\$ 77
NDTF debt securities	2,078	632	1,446	—	—
Other trading and AFS equity securities	104	104	—	—	—
Other trading and AFS debt securities	266	75	186	5	—
Derivative assets	162	5	136	21	—
Total assets	6,716	4,845	1,768	26	77
Derivative liabilities	(252)	(2)	(63)	(187)	—
Net assets	\$ 6,464	\$ 4,843	\$ 1,705	\$ (161)	\$ 77

The following tables provide reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements. Amounts included in earnings for derivatives are primarily included in Cost of natural gas on the Duke Energy Registrants' Consolidated Statements of Operations and Comprehensive Income. Amounts included in changes of net assets on the Duke Energy Registrants' Consolidated Balance Sheets are included in regulatory assets or liabilities. All derivative assets and liabilities are presented on a net basis.

(in millions)	December 31, 2017			December 31, 2016		
	Investments	Derivatives (net)	Total	Investments	Derivatives (net)	Total
Balance at beginning of period	\$ 5	\$ (166)	\$ (161)	\$ 5	\$ 10	\$ 15
Total pretax realized or unrealized gains included in comprehensive income	1	—	1	—	—	—
Derivative liability resulting from the acquisition of Piedmont	—	—	—	—	(187)	(187)
Purchases, sales, issuances and settlements:						
Purchases	—	55	55	—	33	33
Sales	(6)	—	(6)	—	—	—
Settlements	—	(47)	(47)	—	(28)	(28)
Total gains included on the Consolidated Balance Sheet	—	44	44	—	6	6
Balance at end of period	\$ —	\$ (114)	\$ (114)	\$ 5	\$ (166)	\$ (161)

DUKE ENERGY CAROLINAS

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 2,692	\$ 2,618	\$ —	\$ —	\$ 74
NDTF debt securities	1,066	204	862	—	—
Derivative assets	2	—	2	—	—
Total assets	3,760	2,822	864	—	74
Derivative liabilities	(35)	(1)	(34)	—	—
Net assets	\$ 3,725	\$ 2,821	\$ 830	\$ —	\$ 74

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2016				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 2,245	\$ 2,168	\$ —	\$ —	\$ 77
NDTF debt securities	1,013	178	835	—	—
Other AFS debt securities	3	—	—	3	—
Derivative assets	33	—	33	—	—
Total assets	3,294	2,346	868	3	77
Derivative liabilities	(16)	—	(16)	—	—
Net assets	\$ 3,278	\$ 2,346	\$ 852	\$ 3	\$ 77

The following table provides reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Investments	
	Years Ended December 31,	
	2017	2016
Balance at beginning of period	\$ 3	\$ 3
Total pretax realized or unrealized gains included in comprehensive income	1	—
Purchases, sales, issuances and settlements:		
Sales	(4)	—
Balance at end of period	\$ —	\$ 3

PROGRESS ENERGY

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017			December 31, 2016		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 2,222	\$ 2,222	\$ —	\$ 1,861	\$ 1,861	\$ —
NDTF debt securities	1,108	431	677	1,065	454	611
Other AFS debt securities	59	12	47	65	21	44
Derivative assets	3	1	2	85	—	85
Total assets	3,392	2,666	726	3,076	2,336	740
Derivative liabilities	(36)	(1)	(35)	(25)	—	(25)
Net assets	\$ 3,356	\$ 2,665	\$ 691	\$ 3,051	\$ 2,336	\$ 715

DUKE ENERGY PROGRESS

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017			December 31, 2016		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 1,795	\$ 1,795	\$ —	\$ 1,505	\$ 1,505	\$ —
NDTF debt securities	796	243	553	708	207	501
Other AFS debt securities	1	1	—	1	1	—
Derivative assets	2	1	1	46	—	46
Total assets	2,594	2,040	554	2,260	1,713	547
Derivative liabilities	(18)	(1)	(17)	(7)	—	(7)
Net assets	\$ 2,576	\$ 2,039	\$ 537	\$ 2,253	\$ 1,713	\$ 540

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY FLORIDA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017			December 31, 2016		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 427	\$ 427	\$ —	\$ 356	\$ 356	\$ —
NDTF debt securities	312	188	124	357	247	110
Other AFS debt securities	48	1	47	48	4	44
Derivative assets	1	—	1	39	—	39
Total assets	788	616	172	800	607	193
Derivative liabilities	(12)	—	(12)	(12)	—	(12)
Net assets	\$ 776	\$ 616	\$ 160	\$ 788	\$ 607	\$ 181

DUKE ENERGY OHIO

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017			December 31, 2016		
	Total Fair Value	Level 2	Level 3	Total Fair Value	Level 2	Level 3
Derivative assets	\$ 1	\$ —	\$ 1	\$ 5	\$ —	\$ 5
Derivative liabilities	(5)	(5)	—	(6)	(6)	—
Net (liabilities) assets	\$ (4)	\$ (5)	\$ 1	\$ (1)	\$ (6)	\$ 5

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2017	2016
Balance at beginning of period	\$ 5	\$ 3
Purchases, sales, issuances and settlements:		
Purchases	3	5
Settlements	(4)	(5)
Total gains included on the Consolidated Balance Sheet	(3)	2
Balance at end of period	\$ 1	\$ 5

DUKE ENERGY INDIANA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017				December 31, 2016			
	Total Fair Value	Level 1	Level 2	Level 3	Total Fair Value	Level 1	Level 2	Level 3
Other AFS equity securities	\$ 97	\$ 97	\$ —	\$ —	\$ 79	\$ 79	\$ —	\$ —
Other AFS debt securities	31	—	31	—	31	—	31	—
Derivative assets	27	—	—	27	16	—	—	16
Total assets	155	97	31	27	126	79	31	16
Derivative liabilities	—	—	—	—	(2)	(2)	—	—
Net assets	\$ 155	\$ 97	\$ 31	\$ 27	\$ 124	\$ 77	\$ 31	\$ 16

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Combined Notes to Consolidated Financial Statements – (Continued)

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2017	2016
Balance at beginning of period	\$ 16	\$ 7
Purchases, sales, issuances and settlements:		
Purchases	52	29
Settlements	(43)	(24)
Total gains included on the Consolidated Balance Sheet	2	4
Balance at end of period	\$ 27	\$ 16

PIEDMONT

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017			December 31, 2016		
	Total Fair Value	Level 1	Level 3	Total Fair Value	Level 1	Level 3
Other trading equity securities	\$ —	\$ —	\$ —	\$ 4	\$ 4	\$ —
Other trading debt securities	1	1	—	1	1	—
Derivative assets	2	2	—	3	3	—
Total assets	3	3	—	8	8	—
Derivative liabilities	(142)	—	(142)	(187)	—	(187)
Net assets	\$ (139)	\$ 3	\$ (142)	\$ (179)	\$ 8	\$ (187)

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)		
	Year Ended	Two Months Ended	Year Ended
	December 31, 2017	December 31, 2016	October 31, 2016
Balance at beginning of period	\$ (187)	\$ (188)	\$ —
Total gains (losses) and settlements	45	1	(188)
Balance at end of period	\$ (142)	\$ (187)	\$ (188)

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Combined Notes to Consolidated Financial Statements – (Continued)

QUANTITATIVE INFORMATION ABOUT UNOBSERVABLE INPUTS

The following tables include quantitative information about the Duke Energy Registrants' derivatives classified as Level 3.

December 31, 2017				
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range
Duke Energy Ohio				
FTRs	\$ 1	RTO auction pricing	FTR price – per MWh	\$ 0.07 — \$ 1.41
Duke Energy Indiana				
FTRs	27	RTO auction pricing	FTR price – per MWh	(0.77) — 7.44
Piedmont				
Natural gas contracts	(142)	Discounted cash flow	Forward natural gas curves - price per MMBtu	2.10 — 2.88
Duke Energy				
Total Level 3 derivatives	\$ (114)			

December 31, 2016				
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range
Duke Energy Ohio				
FTRs	\$ 5	RTO auction pricing	FTR price – per MWh	\$ 0.77 — 3.52
Duke Energy Indiana				
FTRs	16	RTO auction pricing	FTR price – per MWh	(0.83) — 9.32
Piedmont				
Natural gas contracts	(187)	Discounted cash flow	Forward natural gas curves - price per MMBtu	2.31 — 4.18
Duke Energy				
Total Level 3 derivatives	\$ (166)			

OTHER FAIR VALUE DISCLOSURES

The fair value and book value of long-term debt, including current maturities, is summarized in the following table. Estimates determined are not necessarily indicative of amounts that could have been settled in current markets. Fair value of long-term debt uses Level 2 measurements.

(in millions)	December 31, 2017		December 31, 2016	
	Book Value	Fair Value	Book Value	Fair Value
Duke Energy	\$ 52,279	\$ 55,331	\$ 47,895	\$ 49,161
Duke Energy Carolinas	10,103	11,372	9,603	10,494
Progress Energy	17,837	20,000	17,541	19,107
Duke Energy Progress	7,357	7,992	7,011	7,357
Duke Energy Florida	7,095	7,953	6,125	6,728
Duke Energy Ohio	2,067	2,249	1,884	2,020
Duke Energy Indiana	3,783	4,464	3,786	4,260
Piedmont	2,037	2,209	1,821	1,933

At both December 31, 2017, and December 31, 2016, fair value of cash and cash equivalents, accounts and notes receivable, accounts payable, notes payable and commercial paper and nonrecourse notes payable of VIEs are not materially different from their carrying amounts because of the short-term nature of these instruments and/or because the stated rates approximate market rates.

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Combined Notes to Consolidated Financial Statements – (Continued)

17. VARIABLE INTEREST ENTITIES

A VIE is an entity that is evaluated for consolidation using more than a simple analysis of voting control. The analysis to determine whether an entity is a VIE considers contracts with an entity, credit support for an entity, the adequacy of the equity investment of an entity and the relationship of voting power to the amount of equity invested in an entity. This analysis is performed either upon the creation of a legal entity or upon the occurrence of an event requiring reevaluation, such as a significant change in an entity's assets or activities. A qualitative analysis of control determines the party that consolidates a VIE. This assessment is based on (i) what party has the power to direct the activities of the VIE that most significantly impact its economic performance and (ii) what party has rights to receive benefits or is obligated to absorb losses that could potentially be significant to the VIE. The analysis of the party that consolidates a VIE is a continual reassessment.

CONSOLIDATED VIEs

The obligations of these VIEs discussed in the following paragraphs are nonrecourse to the Duke Energy Registrants. The registrants have no requirement to provide liquidity to, purchase assets of or guarantee performance of these VIEs unless noted in the following paragraphs.

No financial support was provided to any of the consolidated VIEs during the years ended December 31, 2017, 2016 and 2015, or is expected to be provided in the future, that was not previously contractually required.

Receivables Financing – DERF/DEPR/DEFR

Duke Energy Receivables Finance Company, LLC (DERF), Duke Energy Progress Receivables, LLC (DEPR) and Duke Energy Florida Receivables, LLC (DEFR) are bankruptcy remote, special purpose subsidiaries of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, respectively. DERF, DEPR and DEFR are wholly owned limited liability companies with separate legal existence from their parent companies and their assets are not generally available to creditors of their parent companies. On a revolving basis, DERF, DEPR and DEFR buy certain accounts receivable arising from the sale of electricity and related services from their parent companies.

Receivables Financing – Credit Facilities

The following table outlines amounts and expiration dates of the credit facilities described above.

	Duke Energy			
	CRC	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida
		DERF	DEPR	DEFR
Expiration date	December 2020	December 2020	February 2019	April 2019
Credit facility amount (in millions)	\$ 325	\$ 450	\$ 300	\$ 225
Amounts borrowed at December 31, 2017	325	450	300	225
Amounts borrowed at December 31, 2016	325	425	300	225

DERF, DEPR and DEFR borrow amounts under credit facilities to buy these receivables. Borrowing availability from the credit facilities is limited to the amount of qualified receivables purchased. The sole source of funds to satisfy the related debt obligations is cash collections from the receivables. Amounts borrowed under the credit facilities are reflected on the Consolidated Balance Sheets as Long-Term Debt.

The most significant activity that impacts the economic performance of DERF, DEPR and DEFR are the decisions made to manage delinquent receivables. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida consolidate DERF, DEPR and DEFR, respectively, as they make those decisions.

Receivables Financing – CRC

CRC is a bankruptcy remote, special purpose entity indirectly owned by Duke Energy. On a revolving basis, CRC buys certain accounts receivable arising from the sale of electricity, natural gas and related services from Duke Energy Ohio and Duke Energy Indiana. CRC borrows amounts under a credit facility to buy the receivables from Duke Energy Ohio and Duke Energy Indiana. Borrowing availability from the credit facility is limited to the amount of qualified receivables sold to CRC. The sole source of funds to satisfy the related debt obligation is cash collections from the receivables. Amounts borrowed under the credit facility are reflected on Duke Energy's Consolidated Balance Sheets as Long-Term Debt.

The proceeds Duke Energy Ohio and Duke Energy Indiana receive from the sale of receivables to CRC are typically 75 percent cash and 25 percent in the form of a subordinated note from CRC. The subordinated note is a retained interest in the receivables sold. Depending on collection experience, additional equity infusions to CRC may be required by Duke Energy to maintain a minimum equity balance of \$3 million.

CRC is considered a VIE because (i) equity capitalization is insufficient to support its operations, (ii) power to direct the activities that most significantly impact the economic performance of the entity are not performed by the equity holder and (iii) deficiencies in net worth of CRC are funded by Duke Energy. The most significant activities that impact the economic performance of CRC are decisions made to manage delinquent receivables. Duke Energy consolidates CRC as it makes these decisions. Neither Duke Energy Ohio nor Duke Energy Indiana consolidate CRC.

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Nuclear Asset-Recovery Bonds – DEFPF

Duke Energy Florida Project Finance, LLC (DEFPF) is a bankruptcy remote, wholly owned special purpose subsidiary of Duke Energy Florida. DEFPF was formed in 2016 for the sole purpose of issuing nuclear asset-recovery bonds to finance Duke Energy Florida's unrecovered regulatory asset related to Crystal River Unit 3.

In June 2016, DEFPF issued \$1,294 million of senior secured bonds and used the proceeds to acquire nuclear asset-recovery property from Duke Energy Florida. The nuclear asset-recovery property acquired includes the right to impose, bill, collect and adjust a non-bypassable nuclear asset-recovery charge from all Duke Energy Florida retail customers until the bonds are paid in full and all financing costs have been recovered. The nuclear asset-recovery bonds are secured by the nuclear asset-recovery property and cash collections from the nuclear asset-recovery charges are the sole source of funds to satisfy the debt obligation. The bondholders have no recourse to Duke Energy Florida. For additional information see Notes 4 and 6.

DEFPF is considered a VIE primarily because the equity capitalization is insufficient to support its operations. Duke Energy Florida has the power to direct the significant activities of the VIE as described above and therefore Duke Energy Florida is considered the primary beneficiary and consolidates DEFPF.

The following table summarizes the impact of DEFPF on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31, 2017	December 31, 2016
Receivables of VIEs	\$ 4	\$ 6
Regulatory Assets: Current	51	50
Current Assets: Other	40	53
Other Noncurrent Assets: Regulatory assets	1,091	1,142
Current Liabilities: Other	10	17
Current maturities of long-term debt	53	62
Long-Term Debt	1,164	1,217

Commercial Renewables

Certain of Duke Energy's renewable energy facilities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Assets are restricted and cannot be pledged as collateral or sold to third parties without prior approval of debt holders. The activities that most significantly impact the economic performance of these renewable energy facilities were decisions associated with siting, negotiating PPAs, engineering, procurement and construction and decisions associated with ongoing operations and maintenance-related activities. Duke Energy consolidates the entities as it is responsible for all of these decisions.

The table below presents material balances reported on Duke Energy's Consolidated Balance Sheets related to renewables VIEs.

(in millions)	December 31, 2017	December 31, 2016
Current Assets: Other	\$ 174	\$ 223
Property, plant and equipment, cost	3,923	3,419
Accumulated depreciation and amortization	(591)	(453)
Current maturities of long-term debt	170	198
Long-Term Debt	1,700	1,097
Other Noncurrent Liabilities: Deferred income taxes	(148)	275
Other Noncurrent Liabilities: Other	241	252

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NON-CONSOLIDATED VIEs

The following tables summarize the impact of non-consolidated VIEs on the Consolidated Balance Sheets.

(in millions)	December 31, 2017					
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana
	Pipeline Investments	Commercial Renewables	Other VIEs ^(a)	Total		
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 87	\$ 106
Investments in equity method unconsolidated affiliates	697	180	42	919	—	—
Other noncurrent assets	17	—	—	17	—	—
Total assets	\$ 714	\$ 180	\$ 42	\$ 936	\$ 87	\$ 106
Taxes accrued	(29)	—	—	(29)	—	—
Other current liabilities	—	—	4	4	—	—
Deferred income taxes	42	—	—	42	—	—
Other noncurrent liabilities	—	—	12	12	—	—
Total liabilities	\$ 13	\$ —	\$ 16	\$ 29	\$ —	\$ —
Net assets	\$ 701	\$ 180	\$ 26	\$ 907	\$ 87	\$ 106

(a) Duke Energy holds a 50 percent equity interest in Duke-American Transmission Company, LLC (DATC). As of December 31, 2016, DATC was considered a VIE due to having insufficient equity to finance its own activities without subordinated financial support. However, DATC is no longer considered a VIE based on sufficient equity to finance its own activities, and, therefore, is no longer considered a VIE as of December 31, 2017. Duke Energy's investment in DATC was \$46 million at December 31, 2017.

(in millions)	December 31, 2016						
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
	Pipeline Investments	Commercial Renewables	Other	Total			
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 82	\$ 101	\$ —
Investments in equity method unconsolidated affiliates	487	174	90	751	—	—	139
Other noncurrent assets	12	—	—	12	—	—	—
Total assets	\$ 499	\$ 174	\$ 90	\$ 763	\$ 82	\$ 101	\$ 139
Other current liabilities	—	—	3	3	—	—	—
Other noncurrent liabilities	—	—	13	13	—	—	4
Total liabilities	\$ —	\$ —	\$ 16	\$ 16	\$ —	\$ —	\$ 4
Net assets	\$ 499	\$ 174	\$ 74	\$ 747	\$ 82	\$ 101	\$ 135

(a) In April 2017, Piedmont transferred its non-consolidated VIE investments to a wholly owned subsidiary of Duke Energy. See Note 12 and the "Pipeline Investments" section below for additional detail.

The Duke Energy Registrants are not aware of any situations where the maximum exposure to loss significantly exceeds the carrying values shown above except for the power purchase agreement with OVEC, which is discussed below, and various guarantees, some of which are reflected in the table above as Other noncurrent liabilities. For more information on various guarantees, refer to Note 7.

Pipeline Investments

Duke Energy has investments in various joint ventures with pipeline projects currently under construction. These entities are considered VIEs due to having insufficient equity to finance their own activities without subordinated financial support. Duke Energy does not have the power to direct the activities that most significantly impact the economic performance, the obligation to absorb losses or the right to receive benefits of these VIEs and therefore does not consolidate these entities.

The table below presents Duke Energy's ownership interest and investment balance in these joint ventures.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31, 2017	December 31, 2016
ACP	47%	\$ 397	\$ 265
Sabal Trail	7.5%	219	140
Constitution	24%	81	82
Total		\$ 697	\$ 487

Commercial Renewables

Duke Energy has investments in various renewable energy project entities. Some of these entities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Duke Energy does not consolidate these VIEs because power to direct and control key activities is shared jointly by Duke Energy and other owners.

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Other VIEs

Duke Energy holds a 50 percent equity interest in Pioneer. Pioneer is considered a VIE due to having insufficient equity to finance their own activities without subordinated financial support. The activities that most significantly impact Pioneer's economic performance are decisions related to the development of new transmission facilities. The power to direct these activities is jointly and equally shared by Duke Energy and the other joint venture partner, American Electric Power, therefore Duke Energy does not consolidate Pioneer.

OVEC

Duke Energy Ohio's 9 percent ownership interest in OVEC is considered a non-consolidated VIE due to having insufficient equity to finance their activities without subordinated financial support. As a counterparty to an inter-company power agreement (ICPA), Duke Energy Ohio has a contractual arrangement to buy power from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization, and interest expense are allocated to counterparties to the ICPA based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuation in power prices and changes in OVEC's cost of business, including costs associated with its 2,256 MW of coal-fired generation capacity. Deterioration in the credit quality, or bankruptcy of one or more parties to the ICPA could increase the costs of OVEC. In addition, certain proposed environmental rulemaking could result in future increased cost allocations.

CRC

See discussion under Consolidated VIEs for additional information related to CRC.

Amounts included in Receivables from affiliated companies in the above table for Duke Energy Ohio and Duke Energy Indiana reflect their retained interest in receivables sold to CRC. These subordinated notes held by Duke Energy Ohio and Duke Energy Indiana are stated at fair value. Carrying values of retained interests are determined by allocating carrying value of the receivables between assets sold and interests retained based on relative fair value. The allocated bases of the subordinated notes are not materially different than their face value because (i) the receivables generally turnover in less than two months, (ii) credit losses are reasonably predictable due to the broad customer base and lack of significant concentration and (iii) the equity in CRC is subordinate to all retained interests and thus would absorb losses first. The hypothetical effect on fair value of the retained interests assuming both a 10 percent and a 20 percent unfavorable variation in credit losses or discount rates is not material due to the short turnover of receivables and historically low credit loss history. Interest accrues to Duke Energy Ohio and Duke Energy Indiana on the retained interests using the acceptable yield method. This method generally approximates the stated rate on the notes since the allocated basis and the face value are nearly equivalent. An impairment charge is recorded against the carrying value of both retained interests and purchased beneficial interest whenever it is determined that an OTTI has occurred.

Key assumptions used in estimating fair value are detailed in the following table.

	Duke Energy Ohio		Duke Energy Indiana	
	2017	2016	2017	2016
Anticipated credit loss ratio	0.5%	0.5%	0.3%	0.3%
Discount rate	2.1%	1.5%	2.1%	1.5%
Receivable turnover rate	13.5%	13.3%	10.7%	10.6%

The following table shows the gross and net receivables sold.

(in millions)	Duke Energy Ohio		Duke Energy Indiana	
	2017	2016	2017	2016
Receivables sold	\$ 273	\$ 267	\$ 312	\$ 306
Less: Retained interests	87	82	106	101
Net receivables sold	\$ 186	\$ 185	\$ 206	\$ 205

The following table shows sales and cash flows related to receivables sold.

(in millions)	Duke Energy Ohio			Duke Energy Indiana		
	Years Ended December 31,			Years Ended December 31,		
	2017	2016	2015	2017	2016	2015
Sales						
Receivables sold	\$1,879	\$1,926	\$1,963	\$2,711	\$2,635	\$2,627
Loss recognized on sale	10	9	9	12	11	11
Cash Flows						
Cash proceeds from receivables sold	1,865	1,882	1,995	2,694	2,583	2,670
Collection fees received	1	1	1	1	1	1
Return received on retained interests	3	2	3	7	5	5

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Cash flows from the sales of receivables are reflected within Cash Flows From Operating Activities on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Cash Flows.

Collection fees received in connection with servicing transferred accounts receivable are included in Operation, maintenance and other on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Operations and Comprehensive Income. The loss recognized on sales of receivables is

calculated monthly by multiplying receivables sold during the month by the required discount. The required discount is derived monthly utilizing a three-year weighted average formula that considers charge-off history, late charge history and turnover history on the sold receivables, as well as a component for the time value of money. The discount rate, or component for the time value of money, is the prior month-end LIBOR plus a fixed rate of 1.00 percent.

18. COMMON STOCK

Basic Earnings Per Share (EPS) is computed by dividing net income attributable to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the weighted average number of common shares outstanding during the period. Diluted EPS is computed by dividing net income attributable to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the diluted weighted average number of common shares outstanding during the period. Diluted EPS reflects the potential dilution that could occur if securities or other agreements to issue common shares, such

as stock options and equity forward sale agreements, were exercised or settled. Duke Energy's participating securities are restricted stock units that are entitled to dividends declared on Duke Energy common stock during the restricted stock unit's vesting periods.

The following table presents Duke Energy's basic and diluted EPS calculations and reconciles the weighted average number of common stock outstanding to the diluted weighted average number of common stock outstanding.

(in millions, except per share amounts)	Years Ended December 31,		
	2017	2016	2015
Income from continuing operations attributable to Duke Energy common stockholders excluding impact of participating securities	\$3,059	\$2,567	\$ 2,640
Weighted average shares outstanding – basic	700	691	694
Weighted average shares outstanding – diluted	700	691	694
Earnings per share from continuing operations attributable to Duke Energy common stockholders			
Basic	\$ 4.37	\$ 3.71	\$ 3.80
Diluted	\$ 4.37	\$ 3.71	\$ 3.80
Potentially dilutive items excluded from the calculation ^(a)	2	2	2
Dividends declared per common share	\$ 3.49	\$ 3.36	\$ 3.24

(a) Performance stock awards were not included in the dilutive securities calculation because the performance measures related to the awards had not been met.

Equity Distribution Agreement

On February 20, 2018, Duke Energy filed a prospectus supplement and executed an Equity Distribution Agreement (the EDA) under which it may sell up to \$1 billion of its common stock through an at-the-market offering program, including an equity forward sales component. The EDA was entered into with Wells Fargo Securities, LLC, Citigroup Global Markets Inc., and J.P. Morgan Securities LLC (the Agents). Under the terms of the EDA, Duke Energy may issue and sell, through either of the Agents, shares of common stock during the period ending September 23, 2019.

In addition to the issuance and sales of shares by Duke Energy through the Agents, Duke Energy may enter into Equity Forward Agreements with affiliates of the Agents as Forward Purchasers. There were no transactions under the EDA from the time of execution of the EDA to the filing of this document.

Stock Issuance

In March 2016, Duke Energy marketed an equity offering of 10.6 million shares of common stock. In lieu of issuing equity at the time of the offering, Duke Energy entered into Equity Forwards with Barclays. The Equity Forwards required Duke Energy to either physically settle the transactions by issuing 10.6 million shares, or net settle in whole or in part through the delivery or receipt of cash or shares.

On October 5, 2016, following the close of the Piedmont acquisition, Duke Energy physically settled the Equity Forwards in full by delivering 10.6 million shares of common stock in exchange for net cash proceeds of approximately

\$723 million. The net proceeds were used to finance a portion of the Piedmont acquisition. As a result of the acquisition, all of Piedmont's issued and outstanding stock became the issued and outstanding shares of a wholly owned subsidiary of Duke Energy. See Note 2 for additional information related to the Piedmont acquisition.

Accelerated Stock Repurchase Program

On April 6, 2015, Duke Energy entered into agreements with each of Goldman, Sachs & Co. and JPMorgan Chase Bank, National Association (the Dealers) to repurchase a total of \$1.5 billion of Duke Energy common stock under an accelerated stock repurchase program (the ASR). Duke Energy made payments of \$750 million to each of the Dealers and was delivered 16.6 million shares, with a total fair value of \$1.275 billion, which represented approximately 85 percent of the total number of shares of Duke Energy common stock expected to be repurchased under the ASR. The company recorded the \$1.5 billion payment as a reduction to common stock as of April 6, 2015. In June 2015, the Dealers delivered 3.2 million additional shares to Duke Energy to complete the ASR. Approximately 19.8 million shares, in total, were delivered to Duke Energy and retired under the ASR at an average price of \$75.75 per share. The final number of shares repurchased was based upon the average of the daily volume weighted average stock prices of Duke Energy's common stock during the term of the program, less a discount.

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19. SEVERANCE

As part of its strategic planning processes, Duke Energy implemented targeted cost savings initiatives during 2016 and 2015 aimed at reducing operations and maintenance expense. The initiatives included efforts to reduce costs through the standardization of processes and systems, leveraging technology and workforce optimization throughout the company.

During 2016, Duke Energy and Piedmont announced severance plans covering certain eligible employees whose employment will be involuntarily terminated without cause as a result of Duke Energy's acquisition of Piedmont. These reductions continue to be implemented and are a part of the synergies expected to be realized with the acquisition. Refer to Note 2 for additional information on the Piedmont acquisition.

Severance benefit costs for initiatives and plans discussed above were accrued for a total of approximately 100 employees in 2017, 600 employees in 2016 and 900 employees in 2015. The following table presents the direct and allocated severance and related expenses recorded by the Duke Energy Registrants. Amounts are included within Operation, maintenance and other on the Consolidated Statements of Operations.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Year Ended December 31, 2017	\$ 15	\$ 2	\$ 2	\$ 1	\$ 1	\$ —	\$ 1	\$ 9
Year Ended December 31, 2016	118	39	40	23	17	3	7	
Year Ended December 31, 2015	142	93	36	28	8	2	6	

(a) Piedmont severance benefit costs were \$3 million for the two months ended December 31, 2016, and \$19 million for the year ended October 31, 2016. Piedmont did not record any severance benefit costs for the year ended October 31, 2015.

The table below presents the severance liability for past and ongoing severance plans including the plans described above. Amounts for Duke Energy Indiana and Duke Energy Ohio are not material.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana	Piedmont
Balance at December 31, 2016	\$ 79	\$ 13	\$ 14	\$ 6	\$ 8	\$ —	\$ 20
Provision/Adjustments	17	2	—	—	—	—	9
Cash Reductions	(77)	(10)	(12)	(5)	(8)	(8)	(24)
Balance at December 31, 2017	\$ 19	\$ 5	\$ 2	\$ 1	\$ —	\$ —	\$ 5

20. STOCK-BASED COMPENSATION

The Duke Energy Corporation 2015 Long-Term Incentive Plan (the 2015 Plan) provides for the grant of stock-based compensation awards to employees and outside directors. The 2015 Plan reserves 10 million shares of common stock for issuance. Duke Energy has historically issued new shares upon exercising or vesting of share-based awards. However, Duke Energy may use a combination of new share issuances and open market repurchases for share-based awards that are exercised or vest in the future. Duke Energy has not determined with certainty the amount of such new share issuances or open market repurchases.

The following table summarizes the total expense recognized by the Duke Energy Registrants, net of tax, for stock-based compensation.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Duke Energy	\$ 43	\$ 35	\$ 38
Duke Energy Carolinas	15	12	14
Progress Energy	16	12	14
Duke Energy Progress	10	7	9
Duke Energy Florida	6	5	5
Duke Energy Ohio	3	2	2
Duke Energy Indiana	4	3	4
Piedmont ^(a)	3		

(a) See discussion below for information on Piedmont's pre-merger stock-based compensation plans.

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Duke Energy's pretax stock-based compensation costs, the tax benefit associated with stock-based compensation expense and stock-based compensation costs capitalized are included in the following table.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Restricted stock unit awards	\$ 41	\$ 36	\$ 38
Performance awards	27	19	23
Pretax stock-based compensation cost	\$ 68	\$ 55	\$ 61
Tax benefit associated with stock-based compensation expense	\$ 25	\$ 20	\$ 23
Stock-based compensation costs capitalized	4	2	3

RESTRICTED STOCK UNIT AWARDS

Restricted stock unit (RSU) awards generally vest over periods from immediate to three years. Fair value amounts are based on the market price of Duke Energy's common stock on the grant date. The following table includes information related to restricted stock unit awards.

	Years Ended December 31,		
	2017	2016	2015
Shares awarded (in thousands)	583	684	524
Fair value (in millions)	\$ 47	\$ 52	\$ 41

The following table summarizes information about restricted stock unit awards outstanding.

	Weighted Average Grant Date Fair Value	
	Shares (in thousands)	Value (per share)
Outstanding at December 31, 2016	1,139	\$ 76
Granted	583	80
Vested	(553)	76
Forfeited	(48)	78
Outstanding at December 31, 2017	1,121	78
Restricted stock unit awards expected to vest	1,094	78

The total grant date fair value of shares vested during the years ended December 31, 2017, 2016 and 2015 was \$42 million, \$38 million and \$41 million, respectively. At December 31, 2017, Duke Energy had \$29 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of twenty-three months.

PERFORMANCE AWARDS

Stock-based performance awards generally vest after three years if performance targets are met.

Performance awards granted in 2017, 2016 and 2015 contain market conditions based on the total shareholder return (TSR) of Duke Energy stock relative to a predefined peer group (relative TSR). These awards are valued using a path-dependent model that incorporates expected relative TSR into the fair value determination of Duke Energy's performance-based share awards. The model uses three-year historical volatilities and correlations for all companies in the predefined peer group, including Duke Energy, to simulate Duke Energy's relative TSR as of the end of the performance period. For each simulation, Duke Energy's relative TSR associated with the simulated stock price at the end of the performance period

plus expected dividends within the period results in a value per share for the award portfolio. The average of these simulations is the expected portfolio value per share. Actual life to date results of Duke Energy's relative TSR for each grant are incorporated within the model. For performance awards granted in 2017, the model used a risk-free interest rate of 1.5 percent, which reflects the yield on three-year Treasury bonds as of the grant date, and an expected volatility of 17.2 percent based on Duke Energy's historical volatility over three years using daily stock prices.

In addition to TSR, performance awards granted in 2017 and 2016 contain a performance condition based on Duke Energy's cumulative adjusted EPS. Performance awards granted in 2017 also contain a performance condition based on the total incident case rate, one of our key employee safety metrics. The actual number of shares issued will range from zero to 200 percent of target shares depending on the level of performance achieved.

The following table includes information related to stock-based performance awards.

	Years Ended December 31,		
	2017	2016	2015
Shares granted assuming target performance (in thousands)	461	338	321
Fair value (in millions)	\$ 37	\$ 25	\$ 26

The following table summarizes information about stock-based performance awards outstanding and assumes payout at the target level.

	Weighted Average Grant Date Fair Value	
	Shares (in thousands)	Value (per share)
Outstanding at December 31, 2016	862	\$ 75
Granted	461	81
Forfeited	(258)	69
Outstanding at December 31, 2017	1,065	79
Stock-based performance awards expected to vest	1,034	79

No performance awards vested during the year ended December 31, 2017. The total grant date fair value of shares vested during the years ended December 31, 2016 and 2015 was \$25 million and \$26 million, respectively. At December 31, 2017, Duke Energy had \$34 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of twenty-three months.

STOCK OPTIONS

Stock options, when granted, have a maximum option term of 10 years and with an exercise price not less than the market price of Duke Energy's common stock on the grant date. There were no stock options granted or exercised during the year ended December 31, 2017. There were no stock options outstanding at December 31, 2017.

The following table summarizes additional information related to stock options exercised and granted.

(in millions)	Years Ended December 31,	
	2016	2015
Intrinsic value of options exercised	\$ 1	\$ 5
Tax benefit related to options exercised	—	2
Cash received from options exercised	7	17

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PIEDMONT

Prior to Duke Energy's acquisition of Piedmont, Piedmont had an incentive compensation plan that had a series of three-year performance and RSU awards for eligible officers and other participants. The Agreement and Plan of Merger (Merger Agreement) between Duke Energy and Piedmont provided for the conversion of the 2014-2016 and 2015-2017 performance awards and the nonvested 2016 RSU award into the right to receive \$60 cash per share upon the close of the transaction. In December 2015, Piedmont's board of directors authorized the accelerated vesting, payment and taxation of the 2014-2016 and 2015-2017 performance awards, as well as the 2016 RSU award, at the election of the participant. Substantially all participants elected to accelerate

the settlement of these awards. As a result of the settlement of these awards, 194 thousand shares of Piedmont shares were issued to participants, net of shares withheld for applicable federal and state income taxes, at a closing price of \$56.85 and a fair value of \$11 million. The 2016-2018 performance award cycle was approved subsequent to the Merger Agreement and was converted into a Duke Energy RSU award as discussed above at the consummation of the acquisition.

Piedmont's stock-based compensation costs and the tax benefit associated with stock-based compensation expense are included in the following table. Piedmont's stock-based compensation costs were not material for the two months ended December 31, 2016.

(in millions)	Years Ended October 31,	
	2016	2015
Pretax stock-based compensation cost	\$ 16	\$ 14
Tax benefit associated with stock-based compensation expense	6	4
Net of tax stock-based compensation cost	\$ 10	\$ 10

21. EMPLOYEE BENEFIT PLANS

DEFINED BENEFIT RETIREMENT PLANS

Duke Energy and certain subsidiaries maintain, and the Subsidiary Registrants participate in, qualified, non-contributory defined benefit retirement plans. The Duke Energy plans cover most employees using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage of current eligible earnings, age or age and years of service and interest credits. Certain employees are eligible for benefits that use a final average earnings formula. Under these final average earnings formulas, a plan participant accumulates a retirement benefit equal to the sum of percentages of their (i) highest three-year, four-year, or five-year average earnings, (ii) highest three-year, four-year, or five-year average earnings in excess of covered compensation per year of participation (maximum of 35 years), (iii) highest three-year average earnings times years of participation in excess of 35 years. Duke Energy also maintains, and the Subsidiary Registrants participate in, non-qualified, non-contributory defined benefit retirement plans that cover certain executives. The qualified and non-qualified, non-contributory defined benefit plans are closed to new participants.

Duke Energy approved plan amendments to restructure its qualified non-contributory defined benefit retirement plans, effective January 1, 2018. The restructuring involved (i) the spin-off of the majority of inactive participants from two plans into a separate inactive plan and (ii) the merger of the active

participant portions of such plans, along with a pension plan acquired as part of the Piedmont transaction, into a single active plan. Benefits offered to the plan participants remain unchanged except that the Piedmont plan's final average earnings formula was frozen as of December 31, 2017, and affected participants were moved into the active plan's cash balance formula. Actuarial gains and losses associated with the Inactive Plan will be amortized over the remaining life expectancy of the inactive participants. The longer amortization period is expected to lower Duke Energy's 2018 pretax qualified pension plan expense by approximately \$33 million.

Duke Energy uses a December 31 measurement date for its defined benefit retirement plan assets and obligations.

Net periodic benefit costs disclosed in the tables below represent the cost of the respective benefit plan for the periods presented. However, portions of the net periodic benefit costs disclosed in the tables below have been capitalized as a component of property, plant and equipment. Amounts presented in the tables below for the Subsidiary Registrants represent the amounts of pension and other post-retirement benefit cost allocated by Duke Energy for employees of the Subsidiary Registrants. Additionally, the Subsidiary Registrants are allocated their proportionate share of pension and post-retirement benefit cost for employees of Duke Energy's shared services affiliate that provide support to the Subsidiary Registrants. These allocated amounts are included in the governance and shared service costs discussed in Note 13.

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Duke Energy's policy is to fund amounts on an actuarial basis to provide assets sufficient to meet benefit payments to be paid to plan participants. The following table includes information related to the Duke Energy Registrants' contributions to its qualified defined benefit pension plans.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Anticipated Contributions:								
Total anticipated 2018 contributions	\$ 148	\$ 46	\$ 45	\$ 25	\$ 20	\$ —	\$ 8	\$ 7
Contributions made January 2, 2018	141	46	45	25	20	—	8	—
Contributions to be made in 2018	\$ 7	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 7
Contributions Made:								
2017	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ 4	\$ —	\$ 11
2016	155	43	43	24	20	5	9	
2015	302	91	83	42	40	8	19	

(a) Piedmont contributed \$10 million to its U.S. qualified defined benefit pension plan during the two months ended December 31, 2016, and for each of the years ended October 31, 2016, and 2015, respectively.

QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 159	\$ 48	\$ 45	\$ 26	\$ 19	\$ 4	\$ 9	\$ 10
Interest cost on projected benefit obligation	328	79	100	47	53	18	26	14
Expected return on plan assets	(545)	(142)	(167)	(82)	(85)	(27)	(42)	(24)
Amortization of actuarial loss	146	31	52	23	29	5	12	11
Amortization of prior service credit	(24)	(8)	(3)	(2)	(1)	(1)	(2)	(2)
Settlement charge	12	—	—	—	—	—	—	12
Other	8	2	2	1	1	—	1	1
Net periodic pension costs ^{(a)(b)}	\$ 84	\$ 10	\$ 29	\$ 13	\$ 16	\$ (1)	\$ 4	\$ 22

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Indiana
Service cost	\$ 147	\$ 48	\$ 42	\$ 24	\$ 19	\$ 4	\$ 9	\$ 9
Interest cost on projected benefit obligation	335	86	106	49	55	19	28	28
Expected return on plan assets	(519)	(142)	(168)	(82)	(84)	(27)	(42)	(42)
Amortization of actuarial loss	134	33	51	23	29	4	11	11
Amortization of prior service (credit)	(17)	(8)	(3)	(2)	(1)	—	(1)	(1)
Settlement charge	3	—	—	—	—	—	—	—
Other	8	2	3	1	1	1	1	1
Net periodic pension costs ^{(a)(b)}	\$ 91	\$ 19	\$ 31	\$ 13	\$ 19	\$ 1	\$ 6	\$ 6

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(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Service cost	\$ 159	\$ 50	\$ 44	\$ 23	\$ 20	\$ 4	\$ 10
Interest cost on projected benefit obligation	324	83	104	48	54	18	27
Expected return on plan assets	(516)	(139)	(171)	(79)	(87)	(26)	(42)
Amortization of actuarial loss	166	39	65	33	31	7	13
Amortization of prior service (credit) cost	(15)	(7)	(3)	(2)	(1)	—	1
Other	8	2	3	1	1	—	1
Net periodic pension costs ^{(a)(b)}	\$ 126	\$ 28	\$ 42	\$ 24	\$ 18	\$ 3	\$ 10

(a) Duke Energy amounts exclude \$7 million, \$8 million and \$9 million for the years ended December 2017, 2016 and 2015, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(b) Duke Energy Ohio amounts exclude \$3 million, \$4 million and \$4 million for the years ended December 2017, 2016 and 2015, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(in millions)	Piedmont		
	Two Months Ended	Years Ended October 31,	
	December 31, 2016	2016	2015
Service cost	\$ 2	\$ 11	\$ 11
Interest cost on projected benefit obligation	2	9	12
Expected return on plan assets	(4)	(24)	(24)
Amortization of actuarial loss	2	8	9
Amortization of prior service credit	(1)	(2)	(2)
Settlement charge	3	—	—
Net periodic pension costs	\$ 4	\$ 2	\$ 6

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net (decrease) increase	\$ (212)	\$ (70)	\$ (49)	\$ (37)	\$ (11)	\$ 9	\$ (19)	\$ (64)
Accumulated other comprehensive loss (income)								
Deferred income tax expense	\$ —	—	3	—	—	—	—	—
Prior year service cost arising during the year	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	(7)	—	(7)	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ (6)	\$ —	\$ (4)	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase	\$ 214	\$ 4	\$ 34	\$ 18	\$ 16	\$ 2	\$ 9	
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 4	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior year service credit arising during the year	(2)	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	(7)	—	(1)	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ (5)	\$ —	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —

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Piedmont's regulatory asset net increase was \$34 million, \$35 million and \$20 million for the two months ended December 31, 2016, and for the years ended October 31, 2016, and 2015, respectively.

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2017							Piedmont
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 8,131	\$ 1,952	\$ 2,512	\$ 1,158	\$ 1,323	\$ 447	\$ 658	\$ 344
Service cost	159	48	45	26	19	4	9	10
Interest cost	328	79	100	47	53	18	26	14
Actuarial loss	455	68	158	57	99	35	26	38
Transfers	—	27	(32)	(2)	(15)	12	—	—
Plan amendments	(61)	—	—	—	—	—	—	(61)
Benefits paid	(537)	(145)	(146)	(75)	(69)	(37)	(50)	(5)
Benefits paid - settlements	(27)	—	—	—	—	—	—	(27)
Obligation at measurement date	<u>\$ 8,448</u>	<u>\$ 2,029</u>	<u>\$ 2,637</u>	<u>\$ 1,211</u>	<u>\$ 1,410</u>	<u>\$ 479</u>	<u>\$ 669</u>	<u>\$ 313</u>
Accumulated Benefit Obligation at measurement date	\$ 8,369	\$ 2,029	\$ 2,601	\$ 1,211	\$ 1,375	\$ 468	\$ 652	\$ 313
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 8,531	\$ 2,225	\$ 2,675	\$ 1,290	\$ 1,352	\$ 428	\$ 657	\$ 346
Employer contributions	19	—	—	—	—	4	—	11
Actual return on plan assets	1,017	265	317	153	161	51	77	43
Benefits paid	(537)	(145)	(146)	(75)	(69)	(37)	(50)	(5)
Benefits paid - settlements	(27)	—	—	—	—	—	—	(27)
Transfers	—	27	(32)	(2)	(15)	12	—	—
Plan assets at measurement date	<u>\$ 9,003</u>	<u>\$ 2,372</u>	<u>\$ 2,814</u>	<u>\$ 1,366</u>	<u>\$ 1,429</u>	<u>\$ 458</u>	<u>\$ 684</u>	<u>\$ 368</u>
Funded status of plan	<u>\$ 555</u>	<u>\$ 343</u>	<u>\$ 177</u>	<u>\$ 155</u>	<u>\$ 19</u>	<u>\$ (21)</u>	<u>\$ 15</u>	<u>\$ 55</u>

(in millions)	Year Ended December 31, 2016							Duke Energy Indiana
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 7,727	\$ 1,995	\$ 2,451	\$ 1,143	\$ 1,276	\$ 453	\$ 649	—
Obligation assumed from acquisition	352	—	—	—	—	—	—	—
Service cost	147	48	42	24	19	4	9	—
Interest cost	335	86	106	49	55	19	28	—
Actuarial loss	307	46	111	52	57	13	41	—
Transfers	—	14	(3)	(3)	—	(3)	—	—
Plan amendments	(52)	(3)	—	—	—	(3)	(15)	—
Benefits paid	(679)	(234)	(195)	(107)	(84)	(36)	(54)	—
Impact of settlements	(6)	—	—	—	—	—	—	—
Obligation at measurement date	<u>\$ 8,131</u>	<u>\$ 1,952</u>	<u>\$ 2,512</u>	<u>\$ 1,158</u>	<u>\$ 1,323</u>	<u>\$ 447</u>	<u>\$ 658</u>	<u>\$ 649</u>
Accumulated Benefit Obligation at measurement date	\$ 8,006	\$ 1,952	\$ 2,479	\$ 1,158	\$ 1,290	\$ 436	\$ 649	\$ 649
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 8,136	\$ 2,243	\$ 2,640	\$ 1,284	\$ 1,321	\$ 433	\$ 655	—
Assets received from acquisition	343	—	—	—	—	—	—	—
Employer contributions	155	43	43	24	20	5	9	—
Actual return on plan assets	582	159	190	92	95	29	47	—
Benefits paid	(679)	(234)	(195)	(107)	(84)	(36)	(54)	—
Impact of settlements	(6)	—	—	—	—	—	—	—
Transfers	—	14	(3)	(3)	—	(3)	—	—
Plan assets at measurement date	<u>\$ 8,531</u>	<u>\$ 2,225</u>	<u>\$ 2,675</u>	<u>\$ 1,290</u>	<u>\$ 1,352</u>	<u>\$ 428</u>	<u>\$ 657</u>	<u>\$ 657</u>
Funded status of plan	<u>\$ 400</u>	<u>\$ 273</u>	<u>\$ 163</u>	<u>\$ 132</u>	<u>\$ 29</u>	<u>\$ (19)</u>	<u>\$ (1)</u>	<u>\$ (1)</u>

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Piedmont	
	Two Months Ended	Years Ended
	December 31, 2016	October 31, 2016
Change in Projected Benefit Obligation		
Obligation at prior measurement date	\$ 352	\$ 312
Service cost	2	11
Interest cost	2	9
Actuarial gain	(5)	34
Benefits paid	(1)	(14)
Impact of settlements	(6)	—
Obligation at measurement date	\$ 344	\$ 352
Accumulated Benefit Obligation at measurement date	\$ 289	\$ 296
Change in Fair Value of Plan Assets		
Plan assets at prior measurement date	\$ 343	\$ 329
Employer contributions	10	10
Actual return on plan assets	—	18
Benefits paid	(1)	(14)
Impact of settlements	(6)	—
Plan assets at measurement date	\$ 346	\$ 343
Funded status of plan	\$ 2	\$ (9)

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 680	\$ 343	\$ 245	\$ 155	\$ 87	\$ 8	\$ 16	\$ 55
Noncurrent pension liability ^(b)	\$ 125	\$ —	\$ 68	\$ —	\$ 68	\$ 29	\$ 1	\$ —
Net asset (liability) recognized	\$ 555	\$ 343	\$ 177	\$ 155	\$ 19	\$ (21)	\$ 15	\$ 55
Regulatory assets	\$ 1,886	\$ 406	\$ 756	\$ 341	\$ 415	\$ 90	\$ 152	\$ 73
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (41)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(5)	—	—	—	—	—	—	—
Net actuarial loss	116	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 70	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 132	\$ 29	\$ 44	\$ 21	\$ 23	\$ 5	\$ 7	\$ 11
Unrecognized prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(9)

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 518	\$ 273	\$ 225	\$ 132	\$ 91	\$ 6	\$ —	3
Noncurrent pension liability ^(b)	\$ 118	\$ —	\$ 62	\$ —	\$ 62	\$ 25	\$ 1	—
Net asset recognized	\$ 400	\$ 273	\$ 163	\$ 132	\$ 29	\$ (19)	\$ (1)	\$ 3
Regulatory assets	\$ 2,098	\$ 476	\$ 805	\$ 378	\$ 426	\$ 81	\$ 171	\$ 137
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (41)	\$ —	\$ (6)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(6)	—	—	—	—	—	—	—
Net actuarial loss	123	—	16	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 76	\$ —	\$ 10	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 147	\$ 31	\$ 52	\$ 23	\$ 29	\$ 5	\$ 8	\$ 13
Unrecognized prior service credit	\$ (24)	\$ (8)	\$ (3)	\$ (2)	\$ (1)	\$ —	\$ (2)	\$ (2)

(a) Included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2017			
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio
Projected benefit obligation	\$ 1,386	\$ 718	\$ 718	\$ 337
Accumulated benefit obligation	1,326	683	683	326
Fair value of plan assets	1,260	650	650	308

(in millions)	December 31, 2016			
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio
Projected benefit obligation	\$ 1,299	\$ 665	\$ 665	\$ 311
Accumulated benefit obligation	1,239	633	633	299
Fair value of plan assets	1,182	604	604	286

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period of active covered employees is 13 years for Duke Energy and Duke Energy Progress, 12 years for Duke Energy Carolinas, Progress Energy, and Duke Energy Florida, 14 years for Duke Energy Ohio and Duke Energy Indiana, and nine years for Piedmont.

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Combined Notes to Consolidated Financial Statements – (Continued)

The following tables present the assumptions or range of assumptions used for pension benefit accounting.

	December 31,		
	2017	2016	2015
Benefit Obligations			
Discount rate	3.60%	4.10%	4.40%
Salary increase	3.50% – 4.00%	4.00% – 4.50%	4.00% – 4.40%
Net Periodic Benefit Cost			
Discount rate	4.10%	4.40%	4.10%
Salary increase	4.00% – 4.50%	4.00% – 4.40%	4.00% – 4.40%
Expected long-term rate of return on plan assets	6.50% – 6.75%	6.50% – 6.75%	6.50%

	Piedmont		
	Two Months Ended		Years Ended October 31,
	December 31, 2016	2016	2015
Benefit Obligations			
Discount rate		4.10%	3.80%
Salary increase		4.50%	4.05%
Net Periodic Benefit Cost			
Discount rate		3.80%	4.34%
Salary increase		4.05%	4.07%
Expected long-term rate of return on plan assets		6.75%	7.25%

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2018	\$ 642	\$ 185	\$ 161	\$ 85	\$ 75	\$ 36	\$ 47	29
2019	644	185	164	86	77	36	46	26
2020	661	195	172	90	80	36	44	24
2021	666	194	175	93	81	37	44	24
2022	672	197	176	92	83	36	44	23
2023-2027	3,099	865	888	449	435	166	210	103

NON-QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 2	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	13	1	5	1	2	—	—	—
Amortization of actuarial loss	8	—	2	1	1	—	—	—
Amortization of prior service credit	(2)	—	—	—	—	—	—	—
Net periodic pension costs	\$ 21	\$ 2	\$ 7	\$ 2	\$ 3	\$ —	\$ —	\$ —

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Service cost	\$ 2	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	14	1	5	1	2	—	—
Amortization of actuarial loss	8	1	1	1	1	—	—
Amortization of prior service credit	(1)	—	—	—	—	—	—
Net periodic pension costs	\$ 23	\$ 2	\$ 6	\$ 2	\$ 3	\$ —	\$ —

(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Service cost	\$ 3	\$ —	\$ 1	\$ —	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	13	1	4	1	2	—	—
Amortization of actuarial loss	6	—	2	1	2	—	1
Amortization of prior service credit	(1)	—	(1)	—	—	—	—
Net periodic pension costs	\$ 21	\$ 1	\$ 6	\$ 2	\$ 4	\$ —	\$ 1

(in millions)	Piedmont	
	Years Ended October 31,	
	2016	2015
Amortization of prior service cost	\$ —	\$ 1
Settlement charge	1	—
Net periodic pension costs	\$ 1	\$ 1

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net (decrease) increase	\$ 5	\$ (1)	\$ 3	\$ 1	\$ 2	\$ —	\$ —	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Actuarial loss arising during the year	2	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive loss (income)	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Regulatory assets, net (decrease) increase	\$ (3)	\$ (2)	\$ 2	\$ 1	\$ 1	\$ —	\$ (1)
Accumulated other comprehensive (income) loss							
Prior service credit arising during the year	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Actuarial gains arising during the year	1	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive loss (income)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4	\$ 3	\$ 4
Service cost	2	1	—	—	—	—	—	—
Interest cost	13	1	5	1	2	—	—	—
Actuarial losses (gains)	15	—	5	4	2	—	—	—
Benefits paid	(31)	(2)	(8)	(3)	(3)	—	—	—
Obligation at measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Accumulated Benefit Obligation at measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Change in Fair Value of Plan Assets								
Benefits paid	\$ (31)	\$ (2)	\$ (8)	\$ (3)	\$ (3)	\$ —	\$ —	\$ —
Employer contributions	31	2	8	3	3	—	—	—
Plan assets at measurement date	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Change in Projected Benefit Obligation							
Obligation at prior measurement date		\$ 341	\$ 16	\$ 112	\$ 33	\$ 46	\$ 4
Obligation assumed from acquisition		5	—	—	—	—	—
Service cost		2	—	—	—	—	—
Interest cost		14	1	5	1	2	—
Actuarial losses (gains)		4	(1)	5	2	1	(2)
Plan amendments		(2)	—	—	—	—	—
Benefits paid		(32)	(2)	(8)	(3)	(3)	—
Obligation at measurement date		\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4
Accumulated Benefit Obligation at measurement date		\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4
Change in Fair Value of Plan Assets							
Benefits paid		\$ (32)	\$ (2)	\$ (8)	\$ (3)	\$ (3)	\$ —
Employer contributions		32	2	8	3	3	—
Plan assets at measurement date		\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Piedmont	
	Two Months Ended	Years Ended
	December 31, 2016	October 31, 2016
Change in Projected Benefit Obligation		
Obligation at prior measurement date	\$ 5	\$ 6
Actuarial gain	(1)	—
Impact of settlements	—	(1)
Obligation at measurement date	\$ 4	\$ 5
Accumulated Benefit Obligation at measurement date		
	\$ —	\$ 5
Change in Fair Value of Plan Assets		
Plan assets at prior measurement date	\$ —	\$ 1
Impact of settlements	—	(1)
Plan assets at measurement date	\$ —	\$ —

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Current pension liability ^(a)	\$ 23	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —
Noncurrent pension liability ^(b)	308	12	108	32	44	4	3	4
Total accrued pension liability	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Regulatory assets	\$ 78	\$ 4	\$ 21	\$ 8	\$ 13	\$ 1	\$ —	\$ 1
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (4)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(1)	—	—	—	—	—	—	—
Net actuarial loss	12	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 7	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 8	\$ —	\$ 2	\$ 1	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(2)	—	—	—	—	—	—	—

(in millions)	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Current pension liability ^(a)	\$ 28	\$ 2	\$ 8	\$ 2	\$ 3	\$ —	\$ —
Noncurrent pension liability ^(b)	304	12	106	31	43	4	3	4
Total accrued pension liability	\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4	\$ 3	\$ 4
Regulatory assets	\$ 73	\$ 5	\$ 18	\$ 7	\$ 11	\$ 1	\$ —	\$ 1
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (3)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(1)	—	—	—	—	—	—	—
Net actuarial loss	10	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 6	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 7	\$ —	\$ 2	\$ 1	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.
(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

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Combined Notes to Consolidated Financial Statements – (Continued)

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2017							Piedmont
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Projected benefit obligation	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Accumulated benefit obligation	331	14	116	35	47	4	3	4

(in millions)	December 31, 2016							Piedmont
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Projected benefit obligation	\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4	\$ 3	\$ 4
Accumulated benefit obligation	332	14	114	33	46	4	3	4

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period of active covered employees is 11 years for Duke Energy and Duke Energy Progress, 14 years for Progress Energy, 15 years for Duke Energy Florida, eight years for Duke Energy Carolinas, Duke Energy Ohio, and Duke Energy Indiana, and nine years for Piedmont. The following tables present the assumptions used for pension benefit accounting.

	December 31,		
	2017	2016	2015
Benefit Obligations			
Discount rate	3.60%	4.10%	4.40%
Salary increase	3.50% – 4.00%	4.40%	4.40%
Net Periodic Benefit Cost			
Discount rate	4.10%	4.40%	4.10%
Salary increase	4.40%	4.40%	4.40%

	Piedmont		
	Two Months Ended	Years Ended October 31,	
	December 31, 2016	2016	2015
Benefit Obligations			
Discount rate	4.10%	3.80%	3.85%
Net Periodic Benefit Cost			
Discount rate	3.80%	3.85%	3.69%

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Combined Notes to Consolidated Financial Statements – (Continued)

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2018	\$ 23	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	\$ —
2019	21	1	8	2	3	—	—	—
2020	21	1	8	2	3	—	—	—
2021	22	1	8	2	3	—	—	—
2022	25	1	8	2	3	—	—	—
2023-2027	117	6	36	11	15	1	1	2

OTHER POST-RETIREMENT BENEFIT PLANS

Duke Energy provides, and the Subsidiary Registrants participate in, some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans. The health care benefits include medical, dental and prescription drug coverage and are subject to certain limitations, such as deductibles and copayments.

Duke Energy did not make any pre-funding contributions to its other post-retirement benefit plans during the years ended December 31, 2017, 2016 or 2015.

Components of Net Periodic Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 4	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 1
Interest cost on accumulated post-retirement benefit obligation	34	8	13	7	6	1	3	1
Expected return on plan assets	(14)	(8)	—	—	—	—	(1)	(2)
Amortization of actuarial loss (gain)	10	(2)	21	12	9	(2)	(1)	1
Amortization of prior service credit	(115)	(10)	(84)	(54)	(30)	—	(1)	—
Curtailement credit ^(a)	\$ (30)	\$ (4)	\$ (16)	\$ —	\$ (16)	\$ (2)	\$ (2)	\$ —
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (111)	\$ (15)	\$ (66)	\$ (35)	\$ (31)	\$ (3)	\$ (2)	\$ 1

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 3	\$ 1	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Interest cost on accumulated post-retirement benefit obligation	35	8	15	8	7	1	4	4
Expected return on plan assets	(12)	(8)	—	—	—	—	—	(1)
Amortization of actuarial loss (gain)	6	(3)	22	13	9	(2)	(1)	(1)
Amortization of prior service credit	(141)	(14)	(103)	(68)	(35)	—	—	(1)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (109)	\$ (16)	\$ (65)	\$ (47)	\$ (18)	\$ (1)	\$ —	\$ 1

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Service cost	\$ 6	\$ 1	\$ 1	\$ 1	\$ 1	\$ —	\$ 1
Interest cost on accumulated post-retirement benefit obligation	36	9	15	8	7	2	4
Expected return on plan assets	(13)	(8)	—	—	—	(1)	(1)
Amortization of actuarial loss (gain)	16	(2)	28	18	10	(2)	(2)
Amortization of prior service credit	(140)	(14)	(102)	(68)	(35)	—	—
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (95)	\$ (14)	\$ (58)	\$ (41)	\$ (17)	\$ (1)	\$ 2

(a) Duke Energy amounts exclude \$7 million, \$8 million and \$10 million for the years ended December 2017, 2016 and 2015, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(b) Duke Energy Ohio amounts exclude \$2 million, \$2 million and \$3 million for the years ended December 2017, 2016 and 2015, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(c) Curtailment credit resulted from a reduction in average future service of plan participants due to a plan amendment.

(in millions)	Piedmont	
	Years Ended October 31,	
	2016	2015
Service cost	\$ 1	\$ 1
Interest cost on projected benefit obligation	1	2
Expected return on plan assets	(2)	(2)
Amortization of actuarial loss	1	—
Net periodic pension costs	\$ 1	\$ 1

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 71	\$ —	\$ 81	\$ 42	\$ 39	\$ —	\$ (5)	\$ (11)
Regulatory liabilities, net increase (decrease)	\$ (27)	\$ (2)	\$ —	\$ —	\$ —	\$ (3)	\$ (7)	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year prior service credit	3	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 2	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Regulatory assets, net increase (decrease)	\$ 53	\$ —	\$ 47	\$ 38	\$ 9	\$ —	\$ (6)
Regulatory liabilities, net increase (decrease)	\$ (114)	\$ (22)	\$ (51)	\$ (25)	\$ (26)	\$ (2)	\$ (12)
Accumulated other comprehensive (income) loss							
Deferred income tax benefit	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Actuarial losses arising during the year	3	—	—	—	—	—	—
Amortization of prior year prior service credit	1	—	1	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 2	\$ —	\$ 1	\$ —	\$ —	\$ —	\$ —

Piedmont's regulatory assets net decreased \$1 million for the two months ended December 31, 2016, and increased \$2 million and \$1 million for the years ended October 31, 2016, and 2015, respectively.

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Combined Notes to Consolidated Financial Statements – (Continued)

Reconciliation of Funded Status to Accrued Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 868	\$ 201	\$ 357	\$ 191	\$ 164	\$ 32	\$ 83	\$ 39
Service cost	4	1	—	—	—	—	—	1
Interest cost	34	8	13	7	6	1	3	1
Plan participants' contributions	17	3	6	3	3	1	2	—
Actuarial (gains) losses	4	(3)	4	1	3	—	3	1
Transfers	—	2	(1)	—	(1)	1	—	—
Plan amendments	(28)	(5)	(3)	(1)	(2)	(2)	(2)	(9)
Benefits paid	(86)	(18)	(34)	(17)	(17)	(3)	(11)	(1)
Accumulated post-retirement benefit obligation at measurement date	\$ 813	\$ 189	\$ 342	\$ 184	\$ 156	\$ 30	\$ 78	\$ 32
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 244	\$ 137	\$ 1	\$ —	\$ —	\$ 7	\$ 22	\$ 29
Actual return on plan assets	25	15	1	—	—	2	1	3
Benefits paid	(86)	(18)	(34)	(17)	(17)	(3)	(11)	(1)
Employer contributions (reimbursements)	25	(4)	26	14	14	—	(3)	—
Plan participants' contributions	17	3	6	3	3	1	2	—
Plan assets at measurement date	\$ 225	\$ 133	\$ —	\$ —	\$ —	\$ 7	\$ 11	\$ 31

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Indiana
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 828	\$ 200	\$ 354	\$ 188	\$ 164	\$ 35	\$ 87	\$ 87
Obligation assumed from acquisition	39	—	—	—	—	—	—	—
Service cost	3	1	1	—	1	—	—	—
Interest cost	35	8	15	8	7	1	4	4
Plan participants' contributions	19	3	7	4	3	1	2	2
Actuarial (gains) losses	33	5	16	8	8	—	3	3
Transfers	—	1	—	—	—	—	—	—
Plan amendments	(1)	—	—	—	—	(1)	—	—
Benefits paid	(88)	(17)	(36)	(17)	(19)	(4)	(13)	(13)
Accumulated post-retirement benefit obligation at measurement date	\$ 868	\$ 201	\$ 357	\$ 191	\$ 164	\$ 32	\$ 83	\$ 83
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 208	\$ 134	\$ —	\$ —	\$ 1	\$ 8	\$ 19	\$ 19
Assets received from acquisition	29	—	—	—	—	—	—	—
Actual return on plan assets	14	8	1	—	—	1	2	2
Benefits paid	(88)	(17)	(36)	(17)	(19)	(4)	(13)	(13)
Employer contributions	62	9	29	13	15	1	12	12
Plan participants' contributions	19	3	7	4	3	1	2	2
Plan assets at measurement date	\$ 244	\$ 137	\$ 1	\$ —	\$ —	\$ 7	\$ 22	\$ 22

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Piedmont			
	Two Months Ended		Years Ended	
	December 31, 2016		October 31, 2016	
Change in Projected Benefit Obligation				
Accumulated post-retirement benefit obligation at prior measurement date	\$	39	\$	38
Service cost		—		1
Interest cost		—		1
Actuarial gain		—		2
Benefits paid		—		(3)
Accumulated post-retirement benefit obligation at measurement date	\$	39	\$	39
Change in Fair Value of Plan Assets				
Plan assets at prior measurement date	\$	29	\$	28
Employer contributions		—		3
Actual return on plan assets		—		1
Benefits paid		—		(3)
Plan assets at measurement date	\$	29	\$	29

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2017								
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Current post-retirement liability ^(a)	\$ 36	\$ —	\$ 29	\$ 15	\$ 14	\$ 2	\$ —	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	552	56	313	169	142	21	67	1	1
Total accrued post-retirement liability	\$ 588	\$ 56	\$ 342	\$ 184	\$ 156	\$ 23	\$ 67	\$ 1	\$ 1
Regulatory assets	\$ 125	\$ —	\$ 129	\$ 80	\$ 49	\$ —	\$ 46	\$ (4)	\$ —
Regulatory liabilities	\$ 147	\$ 44	\$ —	\$ —	\$ —	\$ 16	\$ 64	\$ —	\$ —
Accumulated other comprehensive (income) loss									
Deferred income tax expense	\$ 4	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—	—
Net actuarial gain	(10)	—	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (8)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year									
Unrecognized net actuarial loss	\$ 5	\$ 3	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —	\$ —
Unrecognized prior service credit	(19)	(5)	(7)	(1)	(6)	(1)	(1)	(1)	(2)

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 38	\$ —	\$ 31	\$ 17	\$ 15	\$ 2	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	586	64	325	174	149	23	63	10
Total accrued post-retirement liability	\$ 624	\$ 64	\$ 356	\$ 191	\$ 164	\$ 25	\$ 63	\$ 10
Regulatory assets	\$ 54	\$ —	\$ 48	\$ 38	\$ 10	\$ —	\$ 51	\$ 7
Regulatory liabilities	\$ 174	\$ 46	\$ —	\$ —	\$ —	\$ 19	\$ 71	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 5	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(5)	—	—	—	—	—	—	—
Net actuarial gain	(10)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (10)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss (gain)	\$ 10	\$ (2)	\$ 21	\$ 12	\$ 9	\$ (2)	\$ (6)	\$ —
Unrecognized prior service credit	(115)	(10)	(85)	(55)	(30)	—	(1)	—

(a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.
(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

Assumptions Used for Other Post-Retirement Benefits Accounting

The discount rate used to determine the current year other post-retirement benefits obligation and following year's other post-retirement benefits expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected. The average remaining service period of active covered employees is nine years for Duke Energy, eight years for Duke Energy Carolinas, seven years for Duke Energy Florida, Duke Energy Ohio, and Piedmont, and six years for Progress Energy, Duke Energy Progress, and Duke Energy Indiana.

The following tables present the assumptions used for other post-retirement benefits accounting.

	December 31,		
	2017	2016	2015
Benefit Obligations			
Discount rate	3.60%	4.10%	4.40%
Net Periodic Benefit Cost			
Discount rate	4.10%	4.40%	4.10%
Expected long-term rate of return on plan assets	6.50%	6.50%	6.50%
Assumed tax rate	35%	35%	35%

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Combined Notes to Consolidated Financial Statements – (Continued)

	Piedmont		
	Two Months Ended	Years Ended October 31,	
	December 31, 2016	2016	2015
Benefit Obligations			
Discount rate	4.10%	3.80%	4.38%
Net Periodic Benefit Cost			
Discount rate	3.80%	4.38%	4.03%
Expected long-term rate of return on plan assets	6.75%	7.25%	7.50%

Assumed Health Care Cost Trend Rate

	December 31,	
	2017	2016
Health care cost trend rate assumed for next year	7.00%	7.00%
Rate to which the cost trend is assumed to decline (the ultimate trend rate)	4.75%	4.75%
Year that rate reaches ultimate trend	2024	2023

Sensitivity to Changes in Assumed Health Care Cost Trend Rates

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
1-Percentage Point Increase								
Effect on total service and interest costs	\$ 1	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —
Effect on post-retirement benefit obligation	27	6	11	6	5	1	3	1
1-Percentage Point Decrease								
Effect on total service and interest costs	(1)	—	—	—	—	—	—	—
Effect on post-retirement benefit obligation	(24)	(6)	(10)	(5)	(5)	(1)	(2)	(1)

Expected Benefit Payments

(in millions)	Year Ended December 31,							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2018	\$ 78	\$ 17	\$ 30	\$ 16	\$ 14	\$ 3	\$ 9	\$ 2
2019	76	17	29	15	14	3	9	2
2020	73	17	29	15	14	3	8	2
2021	71	17	28	15	13	3	7	3
2022	68	17	27	14	13	3	7	3
2023 – 2027	290	70	117	63	54	12	29	13

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Combined Notes to Consolidated Financial Statements – (Continued)

PLAN ASSETS

Description and Allocations

Duke Energy Master Retirement Trust

Assets for both the qualified pension and other post-retirement benefits are maintained in the Duke Energy Master Retirement Trust. Qualified pension and other post-retirement assets related to Piedmont were transferred into the Duke Energy Master Retirement Trust during 2017. Approximately 98 percent of the Duke Energy Master Retirement Trust assets were allocated to qualified pension plans and approximately 2 percent were allocated to other post-retirement plans (comprised of 401(h) accounts), as of December 31, 2017, and 2016. The investment objective of the Duke Energy Master Retirement Trust is to achieve reasonable returns, subject to a prudent level of portfolio risk, for the purpose of enhancing the security of benefits for plan participants.

As of December 31, 2017, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.50 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension plan liability. Hedge funds, real estate and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers or investments.

The following table includes the target asset allocations by asset class at December 31, 2017, and the actual asset allocations for the Duke Energy Master Retirement Trust.

	Target Allocation	Actual Allocation at December 31,	
		2017	2016 ^(a)
U.S. equity securities	10%	11%	11%
Non-U.S. equity securities	8%	8%	8%
Global equity securities	10%	10%	10%
Global private equity securities	3%	2%	2%
Debt securities	63%	63%	63%
Hedge funds	2%	2%	2%
Real estate and cash	2%	2%	2%
Other global securities	2%	2%	2%
Total	100%	100%	100%

(a) Excludes Piedmont Pension Assets, which had a targeted asset allocation of 60 percent return-seeking and 40 percent liability hedging fixed-income. Actual asset allocations were 61 percent return-seeking and 39 percent liability hedging fixed-income at December 31, 2016.

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Combined Notes to Consolidated Financial Statements – (Continued)

Other post-retirement assets

Duke Energy's other post-retirement assets are comprised of Voluntary Employees' Beneficiary Association (VEBA) trusts and 401(h) accounts held within the Duke Energy Master Retirement Trust. Duke Energy's investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants.

The following table presents target and actual asset allocations for the VEBA trusts at December 31, 2017.

	Target Allocation	Actual Allocation at December 31,	
		2017	2016
U.S. equity securities	32%	41%	39%
Non-US equity securities	6%	8%	—%
Real estate	2%	2%	2%
Debt securities	45%	36%	37%
Cash	15%	13%	22%
Total	100%	100%	100%

Fair Value Measurements

Duke Energy classifies recurring and non-recurring fair value measurements based on the fair value hierarchy as discussed in Note 16.

Valuation methods of the primary fair value measurements disclosed below are as follows:

Investments in equity securities

Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the reporting period. Principal active markets for equity prices include published exchanges such as NASDAQ and NYSE. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. Prices have not been adjusted to reflect after-hours market activity. The majority of investments in equity securities are valued using Level 1 measurements. When the price of an institutional commingled fund is unpublished, it is not categorized in the fair value hierarchy, even though the funds are readily available at the fair value.

Investments in corporate debt securities and U.S. government securities

Most debt investments are valued based on a calculation using interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. Most debt valuations are Level 2 measurements. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3. U.S. Treasury debt is typically Level 2.

Investments in short-term investment funds

Investments in short-term investment funds are valued at the net asset value of units held at year end and are readily redeemable at the measurement date. Investments in short-term investment funds with published prices are valued as Level 1. Investments in short-term investment funds with unpublished prices are valued as Level 2.

Investments in real estate limited partnerships

Investments in real estate limited partnerships are valued by the trustee at each valuation date (monthly). As part of the trustee's valuation process, properties are externally appraised generally on an annual basis, conducted by reputable, independent appraisal firms, and signed by appraisers that are members of the Appraisal Institute, with the professional designation MAI. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. There are three valuation techniques that can be used to value investments in real estate assets: the market, income or cost approach. The appropriateness of each valuation technique depends on the type of asset or business being valued. In addition, the trustee may cause additional appraisals to be performed as warranted by specific asset or market conditions. Property valuations and the salient valuation-sensitive assumptions of each direct investment property are reviewed by the trustee quarterly and values are adjusted if there has been a significant change in circumstances related to the investment property since the last valuation. Value adjustments for interim capital expenditures are only recognized to the extent that the valuation process acknowledges a corresponding increase in fair value. An independent firm is hired to review and approve quarterly direct real estate valuations. Key inputs and assumptions used to determine fair value includes among others, rental revenue and expense amounts and related revenue and expense growth rates, terminal capitalization rates and discount rates. Development investments are valued using cost incurred to date as a primary input until substantive progress is achieved in terms of mitigating construction and leasing risk at which point a discounted cash flow approach is more heavily weighted. Key inputs and assumptions in addition to those noted above used to determine the fair value of development investments include construction costs and the status of construction completion and leasing. Investments in real estate limited partnerships are valued at net asset value of units held at year end and are not readily redeemable at the measurement date. Investments in real estate limited partnerships are not categorized within the fair value hierarchy.

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Master Retirement Trust

The following tables provide the fair value measurement amounts for the Duke Energy Master Retirement Trust qualified pension and other post-retirement assets.

(in millions)	December 31, 2017					Not Categorized ^(b)
	Total Fair Value	Level 1	Level 2	Level 3	Categorized ^(b)	
Equity securities	\$2,823	\$1,976	\$ —	\$ —	\$ 847	\$ 847
Corporate debt securities	4,694	—	4,694	—	—	—
Short-term investment funds	246	192	54	—	—	—
Partnership interests	137	—	—	—	—	137
Hedge funds	226	—	—	—	—	226
Real estate limited partnerships	135	—	—	—	—	135
U.S. government securities	762	—	762	—	—	—
Guaranteed investment contracts	28	—	—	28	—	—
Governments bonds – foreign	38	—	38	—	—	—
Cash	6	6	—	—	—	—
Government and commercial mortgage backed securities	2	—	2	—	—	—
Net pending transactions and other investments	17	15	2	—	—	—
Total assets^(a)	\$9,114	\$2,189	\$5,552	\$ 28	\$ 28	\$ 1,345

(a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 27 percent, 30 percent, 15 percent, 15 percent, 5 percent, 8 percent, and 4 percent, respectively, of the Duke Energy Master Retirement Trust at December 31, 2017. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.

(b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

(in millions)	December 31, 2016					Not Categorized ^(b)
	Total Fair Value	Level 1	Level 2	Level 3	Categorized ^(b)	
Equity securities	\$2,472	\$1,677	\$ 27	\$ 9	\$ 759	\$ 759
Corporate debt securities	4,330	8	4,322	—	—	—
Short-term investment funds	476	211	265	—	—	—
Partnership interests	157	—	—	—	—	157
Hedge funds	232	—	—	—	—	232
Real estate limited partnerships	144	17	—	—	—	127
U.S. government securities	734	—	734	—	—	—
Guaranteed investment contracts	29	—	—	29	—	—
Governments bonds – foreign	32	—	32	—	—	—
Cash	17	15	2	—	—	—
Net pending transactions and other investments	32	1	6	—	—	25
Total assets^(a)	\$8,655	\$1,929	\$5,388	\$ 38	\$ 38	\$ 1,300

(a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana were allocated approximately 27 percent, 30 percent, 15 percent, 15 percent, 5 percent and 8 percent, respectively, of the Duke Energy Master Retirement Trust and Piedmont's Pension assets at December 31, 2016. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.

(b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

The following table provides a reconciliation of beginning and ending balances of Duke Energy Master Retirement Trust qualified pension and other post-retirement assets and Piedmont Pension Assets at fair value on a recurring basis where the determination of fair value includes significant unobservable inputs (Level 3).

(in millions)	2017	2016
Balance at January 1	\$ 38	\$ 31
Combination of Piedmont Pension Assets	—	9
Sales	(2)	(2)
Total gains (losses) and other, net	1	—
Transfer of Level 3 assets to other classifications	(9)	—
Balance at December 31	\$ 28	\$ 38

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Other post-retirement assets

The following tables provide the fair value measurement amounts for VEBA trust assets.

(in millions)	December 31, 2017	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 8	\$ 8
Real estate	1	1
Equity securities	28	28
Debt securities	21	21
Total assets	\$ 58	\$ 58

(in millions)	December 31, 2016	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 14	\$ 14
Real estate	1	1
Equity securities	26	26
Debt securities	25	25
Total assets	\$ 66	\$ 66

EMPLOYEE SAVINGS PLANS

Retirement Savings Plan

Duke Energy or its affiliates sponsor, and the Subsidiary Registrants participate in, employee savings plans that cover substantially all U.S. employees. Most employees participate in a matching contribution formula where Duke Energy provides a matching contribution generally equal to 100 percent of employee before-tax and Roth 401(k) contributions of up to 6 percent of eligible pay per pay period (5 percent for Piedmont employees). Dividends on

Duke Energy shares held by the savings plans are charged to retained earnings when declared and shares held in the plans are considered outstanding in the calculation of basic and diluted EPS.

As of January 1, 2014, for new and rehired non-union and certain unionized employees (excludes Piedmont employees until 2018 plan year, discussed below) who are not eligible to participate in Duke Energy's defined benefit plans, an additional employer contribution of 4 percent of eligible pay per pay period, which is subject to a three-year vesting schedule, is provided to the employee's savings plan account.

The following table includes pretax employer matching contributions made by Duke Energy and expensed by the Subsidiary Registrants.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Years ended December 31,								
2017	\$179	\$61	\$53	\$37	\$16	\$3	\$9	\$ 7
2016	169	57	50	35	15	3	8	—
2015	159	54	48	34	13	3	7	—

(a) Piedmont's pretax employer matching contributions were \$1 million, \$7 million and \$7 million during the two months ended December 31, 2016 and for the years ended October 31, 2016 and 2015, respectively.

Money Purchase Pension Plan

Piedmont sponsors the MPP plan, which is a defined contribution pension plan that allows employees to direct investments and assume risk of investment returns. Under the MPP plan, Piedmont annually deposits a percentage of each participant's pay into an account of the MPP plan. This contribution equals 4 percent of the participant's eligible compensation plus an additional 4 percent of eligible compensation above the Social Security wage base up to the IRS compensation limit. The participant is vested in MPP

plan after three years of service. No contributions were made to the MPP plan during the two months ended December 31, 2016. Piedmont contributed \$2 million to the MPP plan during each of the years ended December 31, 2017, October 31, 2016 and 2015. Effective December 31, 2017, the MPP Plan was merged into the Retirement Savings Plan and the money purchase plan formula was discontinued. Beginning with the 2018 plan year, the former MPP Plan participants are eligible to receive the additional employer contribution under the Retirement Savings Plan, discussed above.

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Combined Notes to Consolidated Financial Statements – (Continued)

22. INCOME TAXES

Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowers the corporate federal income tax rate from 35 percent to 21 percent and eliminates bonus depreciation for regulated utilities, effective January 1, 2018. The Tax Act also could be amended or subject to technical correction, which could change the financial impacts that were recorded at December 31, 2017, or are expected to be recorded in future periods. The FERC and state utility commissions will determine the regulatory treatment of the impacts of the Tax Act for the Subsidiary Registrants. The Duke Energy Registrants' future results of operations, financial condition and cash flows could be adversely impacted by the Tax Act, subsequent amendments or corrections or the actions of the FERC, state utility commissions or credit rating agencies related to the Tax Act. Duke Energy is reviewing orders to address the rate treatment of the Tax Act by each state utility commission in which the Subsidiary Registrants operate. See Note 4 for additional information. Beginning in January 2018, the Subsidiary Registrants will defer the estimated ongoing impacts of the Tax Act that are expected to be returned to customers.

As a result of the Tax Act, Duke Energy revalued its existing deferred tax assets and deferred tax liabilities as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred tax amounts. For Duke Energy's regulated operations, where the reduction in the net accumulated deferred income tax (ADIT) liability is expected to be returned to customers in future rates, the net remeasurement has been deferred as a regulatory liability. The regulatory liability for income taxes includes the effect of the reduction of the net deferred tax liability including the tax gross-up of the excess accumulated deferred tax liabilities and the effect of the new tax rate on the previous regulatory asset for income taxes. Excess accumulated deferred income taxes are generally classified as either "protected" or "unprotected" under IRS rules. Protected excess ADIT, resulting from accumulated tax depreciation of public utility property, are required to utilize the average rate assumption method under the IRS normalization rules for determining the timing of the return to customers. The majority of the excess ADIT is related to protected amounts associated with public utility property. See Note 4 for additional information on the Tax Act's impact to the regulatory asset and liability accounts.

On December 22, 2017, the SEC staff issued Staff Accounting Bulletin No. 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act (SAB 118), which provides guidance on accounting for the Tax Act's impact. SAB 118

provides a measurement period, which in no case should extend beyond one year from the Tax Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Act under ASC Topic 740. In accordance with SAB 118, a company must reflect the income tax effects of the Tax Act in the reporting period in which the accounting under ASC Topic 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete, a company can determine a reasonable estimate for those effects and record a provisional estimate in the financial statements in the first reporting period in which a reasonable estimate can be determined.

Duke Energy recorded a provisional net tax benefit of \$112 million related to the Tax Act in the period ending December 31, 2017. This net benefit primarily consists of a net benefit of \$534 million due to the remeasurement of deferred tax accounts to reflect the corporate rate reduction impact to net deferred tax balances, a net expense for the establishment of a valuation allowance related to foreign tax credits of \$406 million and a transition tax on previously untaxed earnings and profits on foreign subsidiaries of \$10 million. The majority of Duke Energy's operations are regulated and it is expected that the Subsidiary Registrants will ultimately pass on the savings associated with the amount representing the remeasurement of deferred tax balances related to regulated operations to customers. Duke Energy recorded a regulatory liability of \$8,313 million, representing the revaluation of those deferred tax balances. The Subsidiary Registrants continue to respond to requests from regulators in various jurisdictions to determine the timing and magnitude of savings they will pass on to customers.

The net provisional charge from deferred tax remeasurement and assessment of valuation allowance is based on currently available information and interpretations which are continuing to evolve. Duke Energy continues to analyze additional information and guidance related to certain aspects of the Tax Act, such as limitations on the deductibility of interest and executive compensation, conformity or decoupling by state legislatures in response to the Tax Act, and the final determination of the net deferred tax liabilities subject to the remeasurement. The prospects of supplemental legislation or regulatory processes to address questions that arise because of the Tax Act, or evolving technical interpretations of the tax law, may also cause the final impact from the Tax Act to differ from the estimated amounts. Duke Energy continues to appropriately refine such amounts within the measurement period allowed by SAB 118, which will be completed no later than the fourth quarter of 2018.

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Combined Notes to Consolidated Financial Statements – (Continued)

Income Tax Expense

Components of Income Tax Expense

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current income taxes								
Federal	\$ (247)	\$ 221	\$ (436)	\$ (95)	\$ (188)	\$ (37)	\$ 128	\$ (90)
State	4	20	(5)	2	(11)	2	21	(3)
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(240)	241	(441)	(93)	(199)	(35)	149	(93)
Deferred income taxes								
Federal	1,344	381	664	378	194	99	138	147
State	102	35	44	10	51	(4)	14	8
Total deferred income taxes ^(a) ^(b)	1,446	416	708	388	245	95	152	155
Investment tax credit amortization	(10)	(5)	(3)	(3)	—	(1)	—	—
Income tax expense from continuing operations	1,196	652	264	292	46	59	301	62
Tax benefit from discontinued operations	(6)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,190	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62

(a) Includes utilization of NOL (Net operating loss) carryforwards and tax credit carryforwards of \$428 million at Duke Energy, \$74 million at Progress Energy, \$36 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$42 million at Duke Energy Indiana and \$79 million at Piedmont. In addition the total deferred income taxes includes benefits of NOL carryforwards and tax credit carryforwards of \$10 million at Duke Energy Carolinas and \$1 million at Duke Energy Progress.

(b) As a result of the Tax Act, Duke Energy's deferred tax assets and liabilities were revalued as of December 31, 2017. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Current income taxes							
Federal	\$ —	\$ 139	\$ 15	\$ (59)	\$ 76	\$ (7)	\$ 7
State	(15)	25	(19)	(25)	22	(13)	6
Foreign	2	—	—	—	—	—	—
Total current income taxes	(13)	164	(4)	(84)	98	(20)	13
Deferred income taxes							
Federal	1,064	430	486	350	199	88	202
State	117	45	50	40	25	11	11
Total deferred income taxes ^(a)	1,181	475	536	390	224	99	213
Investment tax credit amortization	(12)	(5)	(5)	(5)	—	(1)	(1)
Income tax expense from continuing operations	1,156	634	527	301	322	78	225
Tax (benefit) expense from discontinued operations	(30)	—	1	—	—	(36)	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,126	\$ 634	\$ 528	\$ 301	\$ 322	\$ 42	\$ 225

(a) Includes benefits of NOL carryforwards and utilization of NOL and tax credit carryforwards of \$648 million at Duke Energy, \$4 million at Duke Energy Carolinas, \$190 million at Progress Energy, \$60 million at Duke Energy Progress, \$49 million at Duke Energy Florida, \$26 million at Duke Energy Ohio and \$58 million at Duke Energy Indiana.

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Current income taxes							
Federal	\$ —	\$ 216	\$ (193)	\$ (56)	\$ 1	\$ (18)	\$ (86)
State	(12)	14	1	(4)	(7)	(1)	(12)
Foreign	4	—	—	—	—	—	—
Total current income taxes	(8)	230	(192)	(60)	(6)	(19)	(98)
Deferred income taxes							
Federal	1,097	345	694	334	290	96	245
State	181	57	27	27	58	5	17
Total deferred income taxes ^(a)	1,278	402	721	361	348	101	262
Investment tax credit amortization	(14)	(5)	(7)	(7)	—	(1)	(1)
Income tax expense from continuing operations	1,256	627	522	294	342	81	163
Tax expense (benefit) from discontinued operations	89	—	(1)	—	—	22	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,345	\$ 627	\$ 521	\$ 294	\$ 342	\$ 103	\$ 163

(a) Includes utilization of NOL carryforwards and tax credit carryforwards of \$264 million at Duke Energy, \$15 million at Duke Energy Carolinas, \$119 million at Progress Energy, \$21 million at Duke Energy Progress, \$84 million at Duke Energy Florida, \$3 million at Duke Energy Ohio and \$45 million at Duke Energy Indiana.

(in millions)	Piedmont		
	Two Months Ended	Years Ended October 31,	
	December 31, 2016	2016	2015
Current income taxes			
Federal	\$ 4	\$ 27	\$ (1)
State	(2)	12	1
Total current income taxes	2	39	—
Deferred income taxes			
Federal	24	79	78
State	6	6	12
Total deferred income taxes ^{(a)(b)}	30	85	90
Total income tax expense from continuing operations included in Consolidated Statements of Operations	\$ 32	\$ 124	\$ 90

(a) Includes benefits of NOL and tax carryforwards of \$17 million and \$91 million for the two months ended December 31, 2016, and the year ended October 31, 2016, respectively.

(b) Includes benefits and utilization of NOL carryforwards of \$46 million for the year ended October 31, 2015.

Duke Energy Income from Continuing Operations before Income Taxes

(in millions)	Years Ended December 31,		
	2017	2016	2015
Domestic ^(a)	\$ 4,207	\$ 3,689	\$ 3,831
Foreign	59	45	79
Income from continuing operations before income taxes	\$ 4,266	\$ 3,734	\$ 3,910

(a) Includes a \$16 million expense in 2017 related to the Tax Act impact on equity earnings included within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations.

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Taxes on Foreign Earnings

In February 2016, Duke Energy announced it had initiated a process to divest the International Disposal Group and, accordingly, no longer intended to indefinitely reinvest post-2014 undistributed foreign earnings. This change in the company's intent, combined with the extension of bonus depreciation by Congress in late 2015, allowed Duke Energy to more efficiently utilize foreign tax credits and reduce U.S. deferred tax liabilities associated with the historical unremitted foreign earnings by approximately \$95 million during the year ended December 31, 2016.

Due to the classification of the International Disposal Group as discontinued operations beginning in the fourth quarter of 2016, income tax amounts related to the International Disposal Group's foreign earnings are presented within (Loss) Income From Discontinued Operations, net of tax on the Consolidated Statements of Operations. In December 2016, Duke Energy closed on the sale of the International Disposal Group in two separate transactions to execute the divestiture. See Note 2 for additional information on the sale.

Statutory Rate Reconciliation

The following tables present a reconciliation of income tax expense at the U.S. federal statutory tax rate to the actual tax expense from continuing operations.

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,493	\$ 653	\$ 536	\$ 353	\$ 265	\$ 88	\$ 229	\$ 70
State income tax, net of federal income tax effect	69	36	25	8	26	(1)	23	3
AFUDC equity income	(81)	(37)	(32)	(17)	(16)	(4)	(8)	—
Renewable energy production tax credits	(132)	—	—	—	—	—	—	—
Tax Act ^(a)	(112)	15	(246)	(40)	(226)	(23)	55	(12)
Tax true-up	(52)	(24)	(19)	(13)	(7)	(5)	(6)	—
Other items, net	11	9	—	1	4	4	8	1
Income tax expense from continuing operations	\$ 1,196	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62
Effective tax rate	28.0%	34.9%	17.2%	29.0%	6.1%	23.4%	46.0%	30.8%

(a) Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related to abandoned or impaired assets, certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal net operating losses, and valuation allowance on foreign tax credits.

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,307	\$ 630	\$ 548	\$ 315	\$ 306	\$ 95	\$ 212	\$ 212
State income tax, net of federal income tax effect	64	46	20	10	30	(2)	11	11
AFUDC equity income	(70)	(36)	(26)	(17)	(9)	(2)	(6)	(6)
Renewable energy production tax credits	(97)	—	—	—	—	—	—	—
Audit adjustment	5	3	—	—	—	—	—	—
Tax true-up	(14)	(14)	(11)	(3)	(9)	(16)	2	2
Other items, net	(39)	5	(4)	(4)	4	3	6	6
Income tax expense from continuing operations	\$ 1,156	\$ 634	\$ 527	\$ 301	\$ 322	\$ 78	\$ 225	\$ 225
Effective tax rate	31.0%	35.2%	33.7%	33.4%	36.9%	28.9%	37.1%	37.1%

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(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,369	\$ 598	\$ 555	\$ 302	\$ 330	\$ 81	\$ 168
State income tax, net of federal income tax effect	109	46	18	15	33	2	2
AFUDC equity income	(58)	(34)	(19)	(17)	(3)	(1)	(4)
Renewable energy production tax credits	(72)	—	(1)	—	—	—	—
Audit adjustment	(22)	—	(23)	1	(24)	—	—
Tax true-up	2	2	(3)	(4)	2	(5)	(9)
Other items, net	(72)	15	(5)	(3)	4	4	6
Income tax expense from continuing operations	\$ 1,256	\$ 627	\$ 522	\$ 294	\$ 342	\$ 81	\$ 163
Effective tax rate	32.1%	36.7%	32.9%	34.2%	36.3%	35.2%	34.0%

(in millions)	Piedmont		
	Two Months Ended		Years Ended October 31,
	December 31, 2016	2016	2015
Income tax expense, computed at the statutory rate of 35 percent	\$ 30	\$ 111	\$ 79
State income tax, net of federal income tax effect	1	11	9
Other items, net	1	2	2
Income tax expense from continuing operations	\$ 32	\$ 124	\$ 90
Effective tax rate	37.2%	39.1%	39.7%

Valuation allowances have been established for certain state NOL carryforwards and state income tax credits that reduce deferred tax assets to an amount that will be realized on a more-likely-than-not basis. The net change in the total valuation allowance is included in the State income tax, net of federal income tax effect in the above tables.

DEFERRED TAXES

Net Deferred Income Tax Liability Components

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 143	\$ 33	\$ 78	\$ 23	\$ 49	\$ 11	\$ 6	\$ (5)
Capital lease obligations	49	14	—	—	—	—	2	—
Pension, post-retirement and other employee benefits	295	(17)	111	44	60	14	18	(4)
Progress Energy merger purchase accounting adjustments ^(a)	536	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,527	234	402	156	143	25	216	70
Regulatory liabilities and deferred credits	—	222	—	—	—	65	—	61
Investments and other assets	—	—	—	—	—	—	1	18
Other	73	10	1	4	—	—	—	—
Valuation allowance	(519)	—	(14)	—	—	—	—	—
Total deferred income tax assets	5,104	496	578	227	252	115	243	140
Investments and other assets	(1,419)	(849)	(470)	(289)	(187)	—	(14)	—
Accelerated depreciation rates	(9,216)	(3,060)	(2,803)	(1,583)	(1,257)	(896)	(966)	(697)
Regulatory assets and deferred debits, net	(1,090)	—	(807)	(238)	(569)	—	(188)	—
Other	—	—	—	—	—	—	—	(7)
Total deferred income tax liabilities	(11,725)	(3,909)	(4,080)	(2,110)	(2,013)	(896)	(1,168)	(704)
Net deferred income tax liabilities	\$ (6,621)	\$ (3,413)	\$ (3,502)	\$ (1,883)	\$ (1,761)	\$ (781)	\$ (925)	\$ (564)

(a) Primarily related to capital lease obligations and debt fair value adjustments.

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As noted above, as a result of the Tax Act, Duke Energy revalued its existing deferred tax assets and liabilities as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred amounts. The following table shows the decrease reflected in the net deferred income tax liabilities balance above.

(in millions)	December 31, 2017
Duke Energy	\$ 8,982
Duke Energy Carolinas	3,454
Progress Energy	3,282
Duke Energy Progress	1,882
Duke Energy Florida	1,420
Duke Energy Ohio	771
Duke Energy Indiana	1,053
Piedmont	521

The following table presents the expiration of tax credits and NOL carryforwards.

(in millions)	December 31, 2017	
	Amount	Expiration Year
Investment tax credits	\$ 1,406	2024 – 2037
Alternative minimum tax credits	1,147	Refundable by 2021
Federal NOL carryforwards	393	2022 – 2036
State NOL carryforwards and credits ^(a)	296	2018 – 2037
Foreign NOL carryforwards ^(b)	13	2027 – 2036
Foreign Tax Credits ^(c)	1,272	2024 – 2027
Total tax credits and NOL carryforwards	\$ 4,527	

(a) A valuation allowance of \$90 million has been recorded on the state NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.

(b) A valuation allowance of \$13 million has been recorded on the foreign NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.

(c) A valuation allowance of \$416 million has been recorded on the foreign tax credits, as presented in the Net Deferred Income Tax Liability Components table.

(in millions)	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 382	\$ 66	\$ 126	\$ 40	\$ 93	\$ 21	\$ 4	\$ 71
Capital lease obligations	60	8	—	—	—	—	1	—
Pension, post-retirement and other employee benefits	561	16	199	91	96	22	37	10
Progress Energy merger purchase accounting adjustments ^(a)	918	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,682	192	1,165	222	232	49	278	192
Investments and other assets	—	—	—	—	—	3	—	—
Other	205	16	35	8	—	5	9	45
Valuation allowance	(96)	—	(12)	—	—	—	—	(1)
Total deferred income tax assets	6,712	298	1,513	361	421	100	329	317
Investments and other assets	(1,892)	(1,149)	(597)	(313)	(297)	—	(21)	(21)
Accelerated depreciation rates	(14,872)	(4,664)	(4,490)	(2,479)	(2,038)	(1,404)	(1,938)	(1,080)
Regulatory assets and deferred debits, net	(4,103)	(1,029)	(1,672)	(892)	(780)	(139)	(270)	(147)
Total deferred income tax liabilities	(20,867)	(6,842)	(6,759)	(3,684)	(3,115)	(1,543)	(2,229)	(1,248)
Net deferred income tax liabilities	\$ (14,155)	\$ (6,544)	\$ (5,246)	\$ (3,323)	\$ (2,694)	\$ (1,443)	\$ (1,900)	\$ (931)

(a) Primarily related to capital lease obligations and debt fair value adjustments.

On August 6, 2015, pursuant to N.C. Gen. Stat. 105-130.3C, the North Carolina Department of Revenue announced the North Carolina corporate income tax rate would be reduced from a statutory rate of 5.0 percent to 4.0 percent beginning January 1, 2016. Duke Energy and Piedmont recorded net reductions of approximately \$95 million and \$18 million to their North Carolina deferred tax liabilities in the third quarter of 2015. The significant majority of

these deferred tax liability reductions were offset by recording a regulatory liability pending NCUC determination of the disposition of amounts related to Duke Energy Carolinas, Duke Energy Progress and Piedmont. The impact did not have a significant impact on the financial position, results of operation, or cash flows of Duke Energy, Duke Energy Carolinas, Progress Energy or Duke Energy Progress.

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On August 4, 2016, pursuant to N.C. Gen. Stat. 105-130.3C, the North Carolina Department of Revenue announced the North Carolina corporate income tax rate would be reduced from a statutory rate of 4.0 percent to 3.0 percent beginning January 1, 2017. Duke Energy and Piedmont recorded net reductions of approximately \$80 million and \$16 million to their North Carolina deferred tax liabilities in the third quarter of 2016. The significant majority of this deferred tax liability reduction was offset by recording a regulatory liability pending NCUC determination of the disposition of amounts related to Duke Energy Carolinas, Duke Energy Progress and Piedmont. The impact did not have a significant impact on the financial position, results of operation, or cash flows of Duke Energy, Duke Energy Carolinas, Progress Energy or Duke Energy Progress.

On June 28, 2017, the North Carolina General Assembly amended N.C. Gen. Stat. 105-130.3, reducing the North Carolina corporate income tax rate from a statutory rate of 3.0 percent to 2.5 percent beginning January 1, 2019. Duke Energy recorded a net reduction of approximately \$55 million to their North Carolina deferred tax liabilities in the second quarter of 2017. The significant majority of this deferred tax liability reduction was offset by recording a regulatory liability pending NCUC determination of the disposition of amounts related to Duke Energy Carolinas, Duke Energy Progress and Piedmont. The impact did not have a significant impact on the financial position, results of operation or cash flows of Duke Energy, Duke Energy Carolinas, Progress Energy or Duke Energy Progress.

UNRECOGNIZED TAX BENEFITS

The following tables present changes to unrecognized tax benefits.

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —	\$ —
Unrecognized tax benefits increases (decreases)								
Gross increases – tax positions in prior periods	12	4	3	3	1	1	1	3
Gross decreases – tax positions in prior periods	(4)	—	—	—	—	(4)	—	—
Total changes	8	4	3	3	1	(3)	1	3
Unrecognized tax benefits – December 31	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Indiana
Unrecognized tax benefits – January 1	\$ 88	\$ 72	\$ 1	\$ 3	\$ —	\$ —	\$ 1	\$ 1
Unrecognized tax benefits increases (decreases)								
Gross increases – tax positions in prior periods	—	—	—	—	4	4	—	—
Gross decreases – tax positions in prior periods	(4)	(4)	(1)	(1)	—	—	—	—
Decreases due to settlements	(68)	(67)	—	—	—	—	—	(1)
Reduction due to lapse of statute of limitations	1	—	2	—	—	—	—	—
Total changes	(71)	(71)	1	(1)	4	4	(1)	(1)
Unrecognized tax benefits – December 31	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —	\$ —

(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Unrecognized tax benefits – January 1	\$ 213	\$ 160	\$ 32	\$ 23	\$ 8	\$ 1	\$ 1
Unrecognized tax benefits increases (decreases)							
Gross increases – tax positions in prior periods	—	—	1	1	—	—	—
Gross decreases – tax positions in prior periods	(48)	(45)	—	—	—	—	—
Decreases due to settlements	(45)	(43)	—	—	—	—	—
Reduction due to lapse of statute of limitations	(32)	—	(32)	(21)	(8)	—	—
Total changes	(125)	(88)	(31)	(20)	(8)	—	—
Unrecognized tax benefits – December 31	\$ 88	\$ 72	\$ 1	\$ 3	\$ —	\$ 1	\$ 1

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DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The following table includes additional information regarding the Duke Energy Registrants' unrecognized tax benefits at December 31, 2017. During the first quarter of 2018, Duke Energy recognized an approximate \$8 million reduction and Duke Energy Carolinas recognized an approximate \$1 million reduction in unrecognized tax benefits. No additional material reductions are expected in the next 12 months.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Amount that if recognized, would affect the effective tax rate or regulatory liability ^(a)	\$15	\$ 4	\$ 7	\$ 5	\$ 1	\$ 1	\$ 1	\$ 3
Amount that if recognized, would be recorded as a component of discontinued operations	7	—	—	—	—	2	—	—

(a) Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Piedmont are unable to estimate the specific amounts that would affect the effective tax rate versus the regulatory liability.

OTHER TAX MATTERS

The following tables include interest recognized in the Consolidated Statements of Operations and the Consolidated Balance Sheets.

(in millions)	Year Ended December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 1
Net interest expense recognized related to income taxes	—	2	—	—	—
Interest payable related to income taxes	5	25	1	1	—

(in millions)	Year Ended December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 2
Net interest expense recognized related to income taxes	—	7	—	—	—
Interest payable related to income taxes	4	23	1	1	—

(in millions)	Year Ended December 31, 2015					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana
Net interest income recognized related to income taxes	\$ 12	\$ —	\$ 2	\$ 2	\$ 1	\$ 1
Net interest expense recognized related to income taxes	—	1	—	—	—	—
Interest receivable related to income taxes	3	—	—	—	—	3
Interest payable related to income taxes	—	14	—	1	—	—

Piedmont recognized \$1 million in net interest income recognized related to income taxes in the Consolidated Statements of Operations for the year ended October 31, 2016.

Duke Energy and its subsidiaries are no longer subject to U.S. federal examination for years before 2015. With few exceptions, Duke Energy and its subsidiaries are no longer subject to state, local or non-U.S. income tax examinations by tax authorities for years before 2015.

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DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

23. OTHER INCOME AND EXPENSES, NET

The components of Other income and expenses, net on the Consolidated Statements of Operations are as follows. Amounts for Piedmont were not material.

(in millions)	Year Ended December 31, 2017						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Interest income	\$ 13	\$ 2	\$ 6	\$ 2	\$ 5	\$ 6	\$ 8
AFUDC equity	237	106	92	47	45	11	28
Post in-service equity returns	40	28	12	12	—	—	—
Nonoperating income, other	62	3	18	4	11	—	1
Other income and expense, net	\$ 352	\$ 139	\$ 128	\$ 65	\$ 61	\$ 17	\$ 37

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Interest income	\$ 21	\$ 4	\$ 4	\$ 3	\$ 2	\$ 5	\$ 6
AFUDC equity	200	102	76	50	26	6	16
Post in-service equity returns	67	55	12	12	—	—	—
Nonoperating income (expense), other	36	1	22	6	16	(2)	—
Other income and expense, net	\$ 324	\$ 162	\$ 114	\$ 71	\$ 44	\$ 9	\$ 22

(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Interest income	\$ 20	\$ 2	\$ 4	\$ 2	\$ 2	\$ 4	\$ 6
AFUDC equity	164	96	54	47	7	3	11
Post in-service equity returns	73	60	13	13	—	—	—
Nonoperating income (expense), other	33	2	26	9	15	(1)	(6)
Other income and expense, net	\$ 290	\$ 160	\$ 97	\$ 71	\$ 24	\$ 6	\$ 11

24. SUBSEQUENT EVENTS

For information on subsequent events related to regulatory matters, commitments and contingencies, debt and credit facilities, investments in unconsolidated affiliates, variable interest entities and common stock see Notes 4, 5, 6, 12, 17 and 18, respectively.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

25. QUARTERLY FINANCIAL DATA (UNAUDITED)

DUKE ENERGY

Quarterly EPS amounts may not sum to the full-year total due to changes in the weighted average number of common shares outstanding and rounding.

(in millions, except per share data)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$5,729	\$5,555	\$6,482	\$5,799	\$23,565
Operating income	1,437	1,387	1,695	1,262	5,781
Income from continuing operations	717	691	957	705	3,070
Loss from discontinued operations, net of tax	—	(2)	(2)	(2)	(6)
Net income	717	689	955	703	3,064
Net income attributable to Duke Energy Corporation	716	686	954	703	3,059
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.37
Diluted	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.37
Loss from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ —	\$ —	\$ —	\$ —	\$ (0.01)
Diluted	\$ —	\$ —	\$ —	\$ —	\$ (0.01)
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.36
Diluted	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.36
2016					
Operating revenues	\$5,377	\$5,213	\$6,576	\$5,577	\$22,743
Operating income	1,240	1,259	1,954	888	5,341
Income from continuing operations	577	624	1,001	376	2,578
Income (Loss) from discontinued operations, net of tax	122	(112)	180	(598)	(408)
Net income (loss)	699	512	1,181	(222)	2,170
Net income (loss) attributable to Duke Energy Corporation	694	509	1,176	(227)	2,152
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.83	\$ 0.90	\$ 1.44	\$ 0.53	\$ 3.71
Diluted	\$ 0.83	\$ 0.90	\$ 1.44	\$ 0.53	\$ 3.71
Income (Loss) from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.18	\$ (0.16)	\$ 0.26	\$ (0.86)	\$ (0.60)
Diluted	\$ 0.18	\$ (0.16)	\$ 0.26	\$ (0.86)	\$ (0.60)
Net income (loss) attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.01	\$ 0.74	\$ 1.70	\$ (0.33)	\$ 3.11
Diluted	\$ 1.01	\$ 0.74	\$ 1.70	\$ (0.33)	\$ 3.11

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (16)	\$ (30)	\$ (23)	\$ (34)	\$ (103)
Regulatory Settlements (see Note 4)	—	—	(135)	(23)	(158)
Commercial Renewables Impairments (see Notes 10 and 11)	—	—	(84)	(18)	(102)
Impacts of the Tax Act (see Note 22)	—	—	—	102	102
Total	\$ (16)	\$ (30)	\$ (242)	\$ 27	\$ (261)
2016					
Costs to Achieve Mergers (see Note 2)	\$ (120)	\$ (111)	\$ (84)	\$ (208)	\$ (523)
Commercial Renewables Impairment (see Note 12)	—	—	(71)	—	(71)
Loss on Sale of International Disposal Group (see Note 2)	—	—	—	(514)	(514)
Impairment of Assets in Central America (see Note 2)	—	(194)	—	—	(194)
Cost Savings Initiatives (see Note 19)	(20)	(24)	(19)	(29)	(92)
Total	\$ (140)	\$ (329)	\$ (174)	\$ (751)	\$ (1,394)

DUKE ENERGY CAROLINAS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 1,716	\$ 1,729	\$ 2,136	\$ 1,721	\$ 7,302
Operating income	484	485	777	403	2,149
Net income	270	273	466	205	1,214
2016					
Operating revenues	\$ 1,740	\$ 1,675	\$ 2,226	\$ 1,681	\$ 7,322
Operating income	481	464	815	302	2,062
Net income	271	261	494	140	1,166

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (6)	\$ (5)	\$ (5)	\$ (20)
Impacts of the Tax Act (see Note 22)	—	—	—	(15)	(15)
Total	\$ (4)	\$ (6)	\$ (5)	\$ (20)	\$ (35)
2016					
Costs to Achieve Mergers	\$ (11)	\$ (12)	\$ (13)	\$ (68)	\$ (104)
Cost Savings Initiatives (see Note 19)	(10)	(10)	(8)	(11)	(39)
Total	\$ (21)	\$ (22)	\$ (21)	\$ (79)	\$ (143)

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DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

PROGRESS ENERGY

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 2,179	\$ 2,392	\$ 2,864	\$ 2,348	\$ 9,783
Operating income	487	591	657	493	2,228
Net income	201	277	343	447	1,268
Net income attributable to Parent	199	274	341	444	1,258
2016					
Operating revenues	\$ 2,332	\$ 2,348	\$ 2,965	\$ 2,208	\$ 9,853
Operating income	475	560	814	292	2,141
Income from continuing operations	212	274	449	104	1,039
Net income	212	274	449	106	1,041
Net income attributable to Parent	209	272	446	104	1,031

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (7)	\$ (6)	\$ (6)	\$ (23)
Regulatory Settlements (see Note 4)	—	—	(135)	(23)	(158)
Impacts of the Tax Act (see Note 22)	—	—	—	246	246
Total	\$ (4)	\$ (7)	\$ (141)	\$ 217	\$ 65
2016					
Costs to Achieve Mergers	\$ (7)	\$ (8)	\$ (10)	\$ (44)	\$ (69)
Cost Savings Initiatives (see Note 19)	(8)	(8)	(10)	(14)	(40)
Total	\$ (15)	\$ (16)	\$ (20)	\$ (58)	\$ (109)

DUKE ENERGY PROGRESS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 1,219	\$ 1,199	\$ 1,460	\$ 1,251	\$ 5,129
Operating income	286	282	411	256	1,235
Net income	147	154	246	168	715
2016					
Operating revenues	\$ 1,307	\$ 1,213	\$ 1,583	\$ 1,174	\$ 5,277
Operating income	258	255	438	135	1,086
Net income	137	131	271	60	599

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (4)	\$ (4)	\$ (4)	\$ (14)
Regulatory Settlements (see Note 4)	—	—	—	(23)	(23)
Impacts of the Tax Act (see Note 22)	—	—	—	40	40
Total	\$ (2)	\$ (4)	\$ (4)	\$ 13	\$ 3
2016					
Costs to Achieve Mergers	\$ (5)	\$ (5)	\$ (6)	\$ (40)	\$ (56)
Cost Savings Initiatives (see Note 19)	(5)	(5)	(7)	(6)	(23)
Total	\$ (10)	\$ (10)	\$ (13)	\$ (46)	\$ (79)

DUKE ENERGY FLORIDA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 959	\$ 1,191	\$ 1,401	\$ 1,095	\$ 4,646
Operating income	196	306	240	234	976
Net income	90	158	120	344	712
2016					
Operating revenues	\$ 1,024	\$ 1,133	\$ 1,381	\$ 1,030	\$ 4,568
Operating income	213	300	373	155	1,041
Net income	110	171	206	64	551

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (3)	\$ (2)	\$ (2)	\$ (9)
Regulatory Settlements (see Note 4)	—	—	(135)	—	(135)
Impacts of the Tax Act (see Note 22)	—	—	—	226	226
Total	\$ (2)	\$ (3)	\$ (137)	\$ 224	\$ 82
2016					
Costs to Achieve Mergers	\$ (2)	\$ (3)	\$ (4)	\$ (4)	\$ (13)
Cost Savings Initiatives (see Note 19)	(2)	(3)	(3)	(9)	(17)
Total	\$ (4)	\$ (6)	\$ (7)	\$ (13)	\$ (30)

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY OHIO

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 518	\$ 437	\$ 471	\$ 497	\$ 1,923
Operating income	83	65	102	76	326
Loss from discontinued operations, net of tax	—	—	(1)	—	(1)
Net income	42	30	55	65	192
2016					
Operating revenues	\$ 516	\$ 428	\$ 489	\$ 511	\$ 1,944
Operating income	96	55	106	90	347
Income from discontinued operations, net of tax	2	—	34	—	36
Net income	59	23	89	57	228

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (1)	\$ (1)	\$ (2)	\$ (2)	\$ (6)
Impacts of the Tax Act (see Note 22)	—	—	—	23	23
Total	\$ (1)	\$ (1)	\$ (2)	\$ 21	\$ 17
2016					
Costs to Achieve Mergers	\$ (1)	\$ (1)	\$ (2)	\$ (2)	\$ (6)
Cost Savings Initiatives (see Note 19)	(1)	(1)	—	(1)	(3)
Total	\$ (2)	\$ (2)	\$ (2)	\$ (3)	\$ (9)

DUKE ENERGY INDIANA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 758	\$ 742	\$ 802	\$ 745	\$ 3,047
Operating income	186	210	230	170	796
Net income	91	106	121	36	354
2016					
Operating revenues	\$ 714	\$ 702	\$ 809	\$ 733	\$ 2,958
Operating income	176	174	239	176	765
Net income	95	85	129	72	381

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (1)	\$ (2)	\$ (2)	\$ (1)	\$ (6)
Impacts of the Tax Act (see Note 22)	—	—	—	(55)	(55)
Total	\$ (1)	\$ (2)	\$ (2)	\$ (56)	\$ (61)
2016					
Costs to Achieve Mergers	\$ (1)	\$ (2)	\$ (3)	\$ (3)	\$ (9)
Cost Savings Initiatives (see Note 19)	(1)	(4)	(1)	(1)	(7)
Total	\$ (2)	\$ (6)	\$ (4)	\$ (4)	\$ (16)

PIEDMONT

The following tables include data for Piedmont's fiscal years ending December 31, 2017, and October 31, 2016.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 500	\$ 201	\$ 183	\$ 444	\$ 1,328
Operating income (loss)	170	5	(4)	115	286
Net income (loss)	95	(8)	(11)	63	139
2016					
Operating revenues	\$ 464	\$ 353	\$ 160	\$ 172	\$ 1,149
Operating income (loss)	171	104	—	(50)	225
Net income (loss)	98	63	(7)	39	193

For the two months ended December 31, 2016, Piedmont's operating revenues, operating income, and net income were \$322 million, \$96 million and \$54 million, respectively.

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (6)	\$ (13)	\$ (8)	\$ (19)	\$ (46)
Impacts of the Tax Act (see Note 22)	—	—	—	2	2
Total	\$ (6)	\$ (13)	\$ (8)	\$ (17)	\$ (44)
2016					
Costs to Achieve Mergers	\$ (6)	\$ (2)	\$ (1)	\$ (53)	\$ (62)

For the two months ended December 31, 2016, Piedmont's costs to achieve merger were \$7 million.

PART II

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Securities Exchange Act of 1934 (Exchange Act) is recorded, processed, summarized and reported, within the time periods specified by the SEC rules and forms.

Disclosure controls and procedures include, without limitation, controls and procedures designed to provide reasonable assurance that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated the effectiveness of their disclosure controls and procedures (as such term is defined in Rule 13a-15(e) and 15d-15(e) under the Exchange Act) as of December 31, 2017, and, based upon this evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that these controls and procedures are effective in providing reasonable assurance of compliance.

Changes in Internal Control Over Financial Reporting

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated changes in internal control over financial reporting (as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that occurred during the fiscal quarter ended December 31, 2017, and have concluded no change has materially affected, or is reasonably likely to materially affect, internal control over financial reporting.

Management's Annual Report On Internal Control Over Financial Reporting

The Duke Energy Registrants' management is responsible for establishing and maintaining an adequate system of internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). The Duke Energy Registrants' internal control system was designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes, in accordance with generally accepted accounting principles in the United States. Due to inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness of the internal control over financial reporting to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

The Duke Energy Registrants' management, including their Chief Executive Officer and Chief Financial Officer, has conducted an evaluation of the effectiveness of their internal control over financial reporting as of December 31, 2017, based on the framework in the Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, management concluded that its internal controls over financial reporting were effective as of December 31, 2017.

Deloitte & Touche LLP, Duke Energy's independent registered public accounting firm, has issued an attestation report on the effectiveness of Duke Energy's internal control over financial reporting. This attestation report is included in Part II, Item 8 of this Form 10-K. This report is not applicable to the Subsidiary Registrants as these companies are not accelerated or large accelerated filers.

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Duke Energy Corporation

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2017, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2017, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets as of December 31, 2017, the related consolidated statements of operations, comprehensive income, changes in equity, and cash flows, for the period ended December 31, 2017, and the related notes of the Company and our report dated February 21, 2018, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying *Management's Annual Report On Internal Control Over Financial Reporting*. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information regarding Duke Energy's Executive Officers is set forth in Part I, Item 1, "Business -- Executive Officers of the Registrants," in this Annual Report on Form 10-K. Duke Energy will provide information that is responsive to the remainder of this Item 10 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 10 by reference.

ITEM 11. EXECUTIVE COMPENSATION

Duke Energy will provide information that is responsive to this Item 11 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 11 by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Equity Compensation Plan Information

The following table shows information as of December 31, 2017, about securities to be issued upon exercise of outstanding options, warrants and rights under Duke Energy's equity compensation plans, along with the weighted-average exercise price of the outstanding options, warrants and rights and the number of securities remaining available for future issuance under the plans.

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted average exercise price of outstanding options, warrants and rights (b) ⁽¹⁾	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	3,566,563 ⁽²⁾	n/a	7,314,882 ⁽³⁾
Equity compensation plans not approved by security holders	191,394 ⁽⁴⁾	n/a	n/a ⁽⁵⁾
Total	3,757,957	n/a	7,314,882

(1) As of December 31, 2017, no options were outstanding under equity compensation plans.

(2) Includes restricted stock units and performance shares (assuming the maximum payout level) granted under the Duke Energy Corporation 2010 Long-Term Incentive Plan or the Duke Energy Corporation 2015 Long-Term Incentive Plan, as well as shares that could be payable with respect to certain compensation deferred under the Duke Energy Corporation Executive Savings Plan (Executive Savings Plan) or the Duke Energy Corporation Directors' Savings Plan (Directors' Savings Plan).

(3) Includes shares remaining available for issuance pursuant to stock awards under the Duke Energy Corporation 2015 Long-Term Incentive Plan.

(4) Includes shares that could be payable with respect to certain compensation deferred under the Executive Savings Plan or and the Directors' Savings Plan, each of which is a nonqualified deferred compensation plan described in more detail below. Upon the acquisition of Piedmont Natural Gas Company, Inc., performance shares granted prior to such acquisition under the Piedmont Natural Gas Company, Inc. Incentive Compensation Plan were converted into restricted stock units payable in shares of Duke Energy common stock. As of December 31, 2017, 45,173 such restricted stock units were outstanding. Following the acquisition, no further stock awards were permitted to be granted under the Piedmont Natural Gas Company, Inc. Incentive Compensation Plan. These converted awards are not listed in the table above.

(5) The number of shares remaining available for future issuance under equity compensation plans not approved by security holders cannot be determined because it is based on the amount of future voluntary deferrals, if any, under the Executive Savings Plan and the Directors' Savings Plan.

Under the Executive Savings Plan, participants can elect to defer a portion of their base salary and short-term incentive compensation. Participants also receive a company matching contribution in excess of the contribution limits prescribed by the Internal Revenue Code under the Duke Energy Retirement Savings Plan, which is the 401(k) plan in which employees are generally eligible to participate. In general, payments are made following termination of employment or death in the form of a lump sum or installments, as selected by the participant. Participants may direct the deemed investment of base salary deferrals, short-term incentive compensation deferrals and matching contributions among investment options available under the Duke Energy Retirement Savings Plan, including the Duke Energy Common Stock Fund. Participants may change their investment elections on a daily basis. Deferrals of equity awards are credited with earnings and losses based on the performance

of the Duke Energy Common Stock Fund. The benefits payable under the plan are unfunded and subject to the claims of Duke Energy's creditors.

Under the Directors' Savings Plan, outside directors may elect to defer all or a portion of their annual compensation, generally consisting of retainers. Deferred amounts are credited to an unfunded account, the balance of which is adjusted for the performance of phantom investment options, including the Duke Energy common stock fund, as elected by the director, and generally are paid when the director terminates his or her service from the Board of Directors.

Duke Energy will provide additional information that is responsive to this Item 12 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 12 by reference.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

Duke Energy will provide information that is responsive to this Item 13 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 13 by reference.

PART III

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Deloitte & Touche LLP and the member firms of Deloitte Touche Tohmatsu and their respective affiliates (collectively, Deloitte) provided professional services to the Duke Energy Registrants. The following tables present the Deloitte fees for services rendered to the Duke Energy Registrants during 2017 and 2016.

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 13.6	\$ 4.7	\$ 5.6	\$ 3.1	\$ 2.4	\$ 0.8	\$ 1.4	\$ 0.8
Audit-Related Fees ^(b)	0.2	—	—	—	—	—	—	—
Tax Fees ^(c)	1.7	0.6	0.1	0.4	—	0.1	0.1	0.1
Other Fees ^(d)	0.1	—	—	—	—	—	—	—
Total Fees	\$ 15.6	\$ 5.3	\$ 5.7	\$ 3.5	\$ 2.4	\$ 0.9	\$ 1.5	\$ 0.9

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 13.6	\$ 4.8	\$ 5.2	\$ 3.0	\$ 2.2	\$ 0.8	\$ 1.4	
Audit-Related Fees ^(b)	0.7	—	—	—	—	—	—	
Tax Fees ^(c)	0.4	0.1	0.1	0.1	—	—	0.1	
Other Fees ^(d)	0.2	0.1	0.1	0.1	—	—	—	
Total Fees	\$ 14.9	\$ 5.0	\$ 5.4	\$ 3.2	\$ 2.2	\$ 0.8	\$ 1.5	

(in millions)	Piedmont ^(e)	
	Two Months Ended	Year Ended October 31,
	December 31, 2016	2016
Types of Fees		
Audit Fees ^(a)	\$ 0.6	\$ 1.3
Audit-Related Fees ^(b)	—	0.1
Total Fees	\$ 0.6	\$ 1.4

- (a) Audit Fees are fees billed, or expected to be billed, by Deloitte for professional services for the financial statement audits, audit of the Duke Energy Registrants' financial statements included in the Annual Report on Form 10-K, reviews of financial statements included in Quarterly Reports on Form 10-Q, and services associated with securities filings such as comfort letters and consents.
- (b) Audit-Related Fees are fees billed, or expected to be billed, by Deloitte for assurance and related services that are reasonably related to the performance of an audit or review of financial statements, including statutory reporting requirements.
- (c) Tax Fees are fees billed by Deloitte for tax return assistance and preparation, tax examination assistance and professional services related to tax planning and tax strategy.
- (d) Other Fees are billed by Deloitte for attendance at Deloitte-sponsored conferences and access to Deloitte research tools and subscription services. In 2016, Other Fees also included non-audit fees related to consulting services.
- (e) Includes all accounting fees and services paid prior to and subsequent to the acquisition. Prior to the acquisition, Piedmont's Audit Committee preapproved all services provided by the independent auditor.

To safeguard the continued independence of the independent auditor, the Audit Committee of the Board of Directors (Audit Committee) of Duke Energy adopted a policy that all services provided by the independent auditor require preapproval by the Audit Committee. Pursuant to the policy, certain audit services, audit-related services, tax services and other services have

been specifically preapproved up to fee limits. In the event the cost of any of these services may exceed the fee limits, the Audit Committee must specifically approve the service. All services performed in 2017 and 2016 by the independent accountant were approved by the Audit Committee pursuant to the preapproval policy.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) Consolidated Financial Statements, Supplemental Financial Data and Supplemental Schedules included in Part II of this annual report are as follows:

Duke Energy Corporation

Consolidated Financial Statements
Consolidated Statements of Operations for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Carolinas, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Progress Energy, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Progress, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
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All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Florida, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

PART IV

Duke Energy Ohio, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Indiana, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Piedmont Natural Gas Company, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Year Ended December 31, 2017, Two Months Ended December 31, 2016, and the Years Ended October 31, 2016, and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Year Ended December 31, 2017, Two Months Ended December 31, 2016, and the Years Ended October 31, 2016, and 2015
Consolidated Statements of Changes in Equity for the Year Ended December 31, 2017, Two Months Ended December 31, 2016, and the Years Ended October 31, 2016, and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
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All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

PART IV

EXHIBIT INDEX

Exhibits filed herewithin are designated by an asterisk (*). All exhibits not so designated are incorporated by reference to a prior filing, as indicated. Items constituting management contracts or compensatory plans or arrangements are designated by a double asterisk (**). The Company agrees to furnish upon request to the Commission a copy of any omitted schedules or exhibits upon request on all items designated by a triple asterisk (***)

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2.1	Agreement and Plan of Merger between Duke Energy Corporation, Diamond Acquisition Corporation and Progress Energy, Inc., dated as of January 8, 2011 (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 11, 2011, File No. 1-32853).	X							
2.2	Agreement and Plan of Merger between Piedmont Natural Gas Company, Duke Energy Corporation and Forest Subsidiary, Inc. (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 26, 2015, File No. 1-32853).	X							
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 20, 2014, File No. 1-32853).	X							
3.2	Amended and Restated By-Laws of Duke Energy Corporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 4, 2016, File No. 1-32853).	X							
3.3	Articles of Organization including Articles of Conversion (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						
3.3.1	Amended Articles of Organization, effective October 1, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 13, 2006, File No. 1-4928).		X						
3.4	Amended Articles of Incorporation of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective October 23, 1996, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 1996, filed on November 13, 1996, File No. 1-1232).						X		
3.4.1	Amended Articles of Incorporation, effective September 19, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 17, 2006, File No. 1-1232).						X		
3.5	Certificate of Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.1	Articles of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.2	Plan of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.3	Articles of Organization of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.4	Limited Liability Company Operating Agreement of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.6	Limited Liability Company Operating Agreement of Duke Energy Carolinas, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						

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Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
3.7	Regulations of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective July 23, 2003, (incorporated by reference to Exhibit 3.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).						X		
3.8	Articles of Organization including Articles of Conversion for Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).			X					
3.8.1	Plan of Conversion of Duke Energy Progress, Inc. (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).			X					
3.8.2	Limited Liability Company Operating Agreement of Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).			X					
3.9	Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective June 15, 2000, (incorporated by reference to Exhibit 3(a)(1) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2000, filed on August 14, 2000, File No. 1-3382).			X					
3.9.1	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective December 4, 2000, (incorporated by reference to Exhibit 3(b)(1) to registrant's Annual Report on Form 10-K for the year ended December 31, 2001, filed on March 28, 2002, File No. 1-3382).			X					
3.9.2	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).			X					
3.9.3	By-Laws of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(b) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).			X					
3.10	Articles of Conversion for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.1	Articles of Organization for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.2	Plan of Conversion of Duke Energy Florida, Inc. (incorporated by reference to Exhibit 3.6 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.3	Limited Liability Company Operating Agreement of Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.7 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.11	Amended and Restated Articles of Incorporation of Piedmont Natural Gas Company, Inc., dated as of October 3, 2016 (incorporated by reference to Exhibit 3.1 to registrant's Annual Report on Form 10-K for the fiscal year ended October 31, 2016, filed on December 22, 2016, File No. 001-06196).							X	
3.11.1	Bylaws of Piedmont Natural Gas Company, Inc., as amended and restated effective October 3, 2016 (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).							X	

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
4.1	Indenture between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee, dated as of June 3, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X							
4.1.1	First Supplemental Indenture, dated as of June 16, 2008, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X							
4.1.2	Second Supplemental Indenture, dated as of January 26, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 26, 2009, File No. 1-32853).	X							
4.1.3	Third Supplemental Indenture, dated as of August 28, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 28, 2009, File No. 1-32853).	X							
4.1.4	Fourth Supplemental Indenture, dated as of March 25, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on March 25, 2010, File No. 1-32853).	X							
4.1.5	Fifth Supplemental Indenture, dated as of August 25, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 25, 2011, File No. 1-32853).	X							
4.1.6	Sixth Supplemental Indenture, dated as of November 17, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on November 17, 2011, File No. 1-32853).	X							
4.1.7	Seventh Supplemental Indenture, dated as of August 16, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 16, 2012, File No. 1-32853).	X							
4.1.8	Eighth Supplemental Indenture, dated as of January 14, 2013, (incorporated by reference to Exhibit 2 to the Registration Statement of Form 8-A of the Company filed on January 14, 2013, File No. 1-32853).	X							
4.1.9	Ninth Supplemental Indenture, dated as of June 13, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 13, 2013, File No. 1-32853).	X							
4.1.10	Tenth Supplemental Indenture, dated as of October 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 11, 2013, File No. 1-32853).	X							
4.1.11	Eleventh Supplemental Indenture, dated as of April 4, 2014, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 4, 2014, File No. 1-32853).	X							
4.1.12	Twelfth Supplemental Indenture, dated as of November 19, 2015, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on November 19, 2015, File No. 1-32853).	X							
4.1.13	Thirteenth Supplemental Indenture, dated as of April 18, 2016, to the indenture dated as of June 3, 2008, between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-32853).	X							
4.1.14	Fourteenth Supplemental Indenture, dated as of August 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 12, 2016, File No. 1-32853).	X							
4.1.15	Fifteenth Supplemental Indenture, dated as of April 11, 2017 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.1.16	Sixteenth Supplemental Indenture, dated as of June 13, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).	X							
4.1.17	Seventeenth Supplemental Indenture, dated as of August 10, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 10, 2017, File No. 1-32853).	X							
4.2	Senior Indenture between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as successor trustee to JPMorgan Chase Bank (formerly known as The Chase Manhattan Bank), dated as of September 1, 1998, (incorporated by reference to Exhibit 4-D-1 to registrant's Post-Effective Amendment No. 2 to Registration Statement on Form S-3 filed on April 7, 1999, File No. 333-14209).		X						
4.2.1	Fifteenth Supplemental Indenture, dated as of April 3, 2006, (incorporated by reference to Exhibit 4.4.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).		X						
4.2.2	Sixteenth Supplemental Indenture, dated as of June 5, 2007, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 6, 2007, File No. 1-4928).		X						
4.3	First and Refunding Mortgage from Duke Energy Carolinas, LLC to The Bank of New York Mellon Trust Company, N.A., successor trustee to Guaranty Trust Company of New York, dated as of December 1, 1927, (incorporated by reference to Exhibit 7(a) to registrant's Form S-1, effective October 15, 1947, File No. 2-7224).		X						
4.3.1	Instrument of Resignation, Appointment and Acceptance among Duke Energy Carolinas, LLC, JPMorgan Chase Bank, N.A., as Trustee, and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of September 24, 2007, (incorporated by reference to Exhibit 4.6.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483).		X						
4.3.2	Ninth Supplemental Indenture, dated as of February 1, 1949, (incorporated by reference to Exhibit 7(j) to registrant's Form S-1 filed on February 3, 1949, File No. 2-7808).		X						
4.3.3	Twentieth Supplemental Indenture, dated as of June 15, 1964, (incorporated by reference to Exhibit 4-B-20 to registrant's Form S-1 filed on August 23, 1966, File No. 2-25367).		X						
4.3.4	Twenty-third Supplemental Indenture, dated as of February 1, 1968, (incorporated by reference to Exhibit 2-B-26 to registrant's Form S-9 filed on January 21, 1969, File No. 2-31304).		X						
4.3.5	Sixtieth Supplemental Indenture, dated as of March 1, 1990, (incorporated by reference to Exhibit 4-B-61 to registrant's Annual Report on Form 10-K for the year ended December 31, 1990, File No.1-4928).		X						
4.3.6	Sixty-third Supplemental Indenture, dated as of July 1, 1991, (incorporated by reference to Exhibit 4-B-64 to registrant's Registration Statement on Form S-3 filed on February 13, 1992, File No. 33-45501).		X						
4.3.7	Eighty-fourth Supplemental Indenture, dated as of March 20, 2006, (incorporated by reference to Exhibit 4.6.9 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).		X						
4.3.8	Eighty-fifth Supplemental Indenture, dated as of January 10, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on January 11, 2008, File No.1-4928).		X						
4.3.9	Eighty-seventh Supplemental Indenture, dated as of April 14, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 15, 2008, File No.1-4928).		X						

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.3.10		X						
4.3.11		X						
4.3.12		X						
4.3.13		X						
4.3.14		X						
4.3.15		X						
4.3.16		X						
4.3.17		X						
4.3.18		X						
4.3.19		X						
4.4				X				
4.4.1				X				
4.4.2				X				
4.4.3				X				
4.4.4				X				
4.4.5				X				
4.4.6				X				
4.4.7				X				

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.8	Twelfth Supplemental Indenture dated January 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-30172).				X				
4.4.9	Thirteenth Supplemental Indenture dated August 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-35694).				X				
4.4.10	Fourteenth Supplemental Indenture dated January 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-37505).				X				
4.4.11	Fifteenth Supplemental Indenture dated October 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-39002).				X				
4.4.12	Sixteenth Supplemental Indenture dated May 1, 1972 (incorporated by reference to Exhibit 2(c), File No. 2-41738).				X				
4.4.13	Seventeenth Supplemental Indenture dated November 1, 1973 (incorporated by reference to Exhibit 2(c), File No. 2-43439).				X				
4.4.14	Eighteenth Supplemental Indenture dated (incorporated by reference to Exhibit 2(c), File No. 2-47751).				X				
4.4.15	Nineteenth Supplemental Indenture dated May 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-49347).				X				
4.4.16	Twentieth Supplemental Indenture dated December 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-53113).				X				
4.4.17	Twenty-first Supplemental Indenture dated April 15, 1975 (incorporated by reference to Exhibit 2(d), File No. 2-53113).				X				
4.4.18	Twenty-second Supplemental Indenture dated October 1, 1977 (incorporated by reference to Exhibit 2(c), File No. 2-59511).				X				
4.4.19	Twenty-third Supplemental Indenture dated June 1, 1978 (incorporated by reference to Exhibit 2(c), File No. 2-61611).				X				
4.4.20	Twenty-fourth Supplemental Indenture dated May 15, 1979 (incorporated by reference to Exhibit 2(d), File No. 2-64189).				X				
4.4.21	Twenty-fifth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-65514).				X				
4.4.22	Twenty-sixth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-66851).				X				
4.4.23	Twenty-seventh Supplemental Indenture dated April 1, 1980 (incorporated by reference to Exhibit 2 (d), File No. 2-66851).				X				
4.4.24	Twenty-eighth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-1, File No. 2-81299).				X				
4.4.25	Twenty-ninth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-2, File No. 2-81299).				X				
4.4.26	Thirtieth Supplemental Indenture dated December 1, 1982 (incorporated by reference to Exhibit 4(b)- 3, File No. 2-81299).				X				
4.4.27	Thirty-first Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-1, File No. 2-95505).				X				
4.4.28	Thirty-second Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-2, File No. 2-95505).				X				
4.4.29	Thirty-third Supplemental Indenture dated December 1, 1983 (incorporated by reference to Exhibit 4(c)-3, File No. 2-95505).				X				
4.4.30	Thirty-fourth Supplemental Indenture dated December 15, 1983 (incorporated by reference to Exhibit 4(c)-4, File No. 2-95505).				X				
4.4.31	Thirty-fifth Supplemental Indenture dated April 1, 1984 (incorporated by reference to Exhibit 4(c)-5, File No. 2-95505).				X				

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Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.32				X				
4.4.33				X				
4.4.34				X				
4.4.35				X				
4.4.36				X				
4.4.37				X				
4.4.38				X				
4.4.39				X				
4.4.40				X				
4.4.41				X				
4.4.42				X				
4.4.43				X				
4.4.44				X				
4.4.45				X				
4.4.46				X				
4.4.47				X				
4.4.48				X				
4.4.49				X				
4.4.50				X				
4.4.51				X				
4.4.52				X				
4.4.53				X				
4.4.54				X				

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.55				X				
4.4.56				X				
4.4.57				X				
4.4.58				X				
4.4.59				X				
4.4.60				X				
4.4.61				X				
4.4.62				X				
4.4.63				X				
4.4.64				X				
4.4.65				X				
4.4.66				X				
4.4.67				X				
4.4.68				X				
4.4.69				X				
4.4.70				X				
4.4.71				X				

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
4.4.72				X				
4.4.73				X				
4.4.74				X				
4.4.75				X				
4.4.76				X				
4.4.77				X				
4.4.78				X				
4.4.79				X				
4.4.80				X				
4.4.81				X				
4.5				X				
4.6				X				
4.7						X		

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.7.1	Seventh Supplemental Indenture (incorporated by reference to Exhibit 4(b) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).					X		
4.7.2	Eighth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).					X		
4.7.3	Sixteenth Supplemental Indenture (incorporated by reference to Exhibit 4(d) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).					X		
4.7.4	Twenty-ninth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 17, 1982, File No. 2-79832).					X		
4.7.5	Thirty-eighth Supplemental Indenture, dated as of July 25, 1994, (incorporated by reference to exhibit 4(f) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on August 29, 1994, File No. 33-55273).					X		
4.7.6	Forty-first Supplemental Indenture, dated as of February 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Duke Energy Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on February 21, 2003, File No. 1-3274).					X		
4.7.7	Forty-second Supplemental Indenture, dated as of April 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 11, 2003, File No. 1-3274).					X		
4.7.8	Forty-third Supplemental Indenture, dated as of November 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 21, 2003, File No. 1-3274).					X		
4.7.9	Forty-fourth Supplemental Indenture, dated as of August 1, 2004, (incorporated by reference to Exhibit 4(m) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Annual Report on Form 10-K for the year ended December 31, 2004, filed on March 16, 2005, File No. 1-3274).					X		
4.7.10	Forty-sixth Supplemental Indenture, dated as of September 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on September 19, 2007, File No. 1-3274).					X		
4.7.11	Forty-seventh Supplemental Indenture, dated as of December 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on December 13, 2007, File No. 1-3274).					X		
4.7.12	Forty-eighth Supplemental Indenture, dated as of June 1, 2008, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on June 18, 2008, File No. 1-3274).					X		
4.7.13	Forty-ninth Supplemental Indenture, dated as of March 1, 2010, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on March 25, 2010, File No. 1-3274).					X		
4.7.14	Fiftieth Supplemental Indenture, dated as of August 11, 2011, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on August 18, 2011, File No. 1-3274).					X		

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Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
4.7.15	Fifty-first Supplemental Indenture, dated as of November 1, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 20, 2012, File No. 1-3274).					X		
4.7.16	Fifty-third Supplemental Indenture, dated as of September 1, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 9, 2016, File No. 1-03274).					X		
4.8	Indenture (for Debt Securities) between Duke Energy Florida, Inc. (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) and The Bank of New York Mellon Trust Company, National Association (successor in interest to J.P. Morgan Trust Company, National Association), as Trustee, dated as of December 7, 2005, (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on December 13, 2005, File No. 1-3274).					X		
4.8.1	First Supplemental Indenture, dated as of December 12, 2017, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 12, 2017, File No. 1-03274).					X		
4.9	Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).					X		
4.10	Original Indenture (Unsecured Debt Securities) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of May 15, 1995, (incorporated by reference to Exhibit 3 to registrant's Form 8-A filed on July 27, 1995, File No. 1-1232).						X	
4.10.1	First Supplemental Indenture, dated as of June 1, 1995, (incorporated by reference to Exhibit 4 B to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 1995, filed on August 11, 1995, File No. 1-1232).						X	
4.10.2	Seventh Supplemental Indenture, dated as of June 15, 2003, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).						X	
4.11	Original Indenture (First Mortgage Bonds) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of August 1, 1936, (incorporated by reference to an exhibit to registrant's Registration Statement No. 2-2374).						X	
4.11.1	Fortieth Supplemental Indenture, dated as of March 23, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on March 24, 2009, File No. 1-1232).						X	
4.11.2	Forty-second Supplemental Indenture, dated as of September 6, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on September 6, 2013, File No. 1-1232).						X	
4.11.3	Forty-fourth Supplemental Indenture, dated as of June 23, 2016, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 23, 2016, File No. 1-1232).						X	
4.11.4	Forty-fifth Supplemental Indenture, dated as of March 27, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 27, 2017, File No. 1-01232).						X	

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Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.12	Indenture between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of November 15, 1996, (incorporated by reference to Exhibit 4(v) to the Cinergy Corp. Form 10-K for the year ended December 31, 1996, filed on March 27, 1997, File No. 1-11377).							X
4.12.1	Third Supplemental Indenture, dated as of March 15, 1998, (incorporated by reference to Exhibit 4-w to Cinergy Corp.'s Annual Report on Form 10-K for the year ended December 31, 1997, filed on March 27, 1998, File No. 1-11377).							X
4.12.2	Eighth Supplemental Indenture, dated as of September 23, 2003, (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended September 30, 2003, filed on November 13, 2003, File No. 1-3543).							X
4.12.3	Ninth Supplemental Indenture, dated as of October 21, 2005, (incorporated by reference to Exhibit 4.7.3 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633).							X
4.12.4	Tenth Supplemental Indenture, dated as of June 9, 2006, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on June 15, 2006, File No. 1-3543).							X
4.13	Original Indenture (First Mortgage Bonds) between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Deutsche Bank National Trust Company, as Successor Trustee, dated as of September 1, 1939, (filed as an exhibit in File No. 70-258).							X
4.13.1	Tenth Supplemental Indenture, dated as of July 1, 1952, (filed as an exhibit in File No. 2-9687).							X
4.13.2	Twenty-third Supplemental Indenture, dated as of January 1, 1977, (filed as an exhibit in File No. 2-57828).							X
4.13.3	Twenty-fifth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).							X
4.13.4	Twenty-sixth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).							X
4.13.5	Thirtieth Supplemental Indenture, dated as of August 1, 1980, (filed as an exhibit in File No. 2-68562).							X
4.13.6	Thirty-fifth Supplemental Indenture, dated as of March 30, 1984, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1984, File No. 1-3543).							X
4.13.7	Forty-sixth Supplemental Indenture, dated as of June 1, 1990, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).							X
4.13.8	Forty-seventh Supplemental Indenture, dated as of July 15, 1991, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).							X
4.13.9	Forty-eighth Supplemental Indenture, dated as of July 15, 1992, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-3543).							X
4.13.10	Fifty-second Supplemental Indenture, dated as of April 30, 1999, (incorporated by reference to Exhibit 4 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 1999, filed on May 13, 1999, File No. 1-3543).							X

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.13.11	Fifty-seventh Supplemental Indenture, dated as of August 21, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report Form 8-K filed on August 21, 2008, File No. 1-3543).							X
4.13.12	Fifty-eighth Supplemental Indenture, dated as of December 19, 2008, (incorporated by reference to Exhibit 4.8.12 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X
4.13.13	Fifty-ninth Supplemental Indenture, dated as of March 23, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 24, 2009, File No. 1-3543).							X
4.13.14	Sixtieth Supplemental Indenture, dated as of June 1, 2009, (incorporated by reference to Exhibit 4.8.14 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X
4.13.15	Sixty-first Supplemental Indenture, dated as of October 1, 2009, (incorporated by reference to Exhibit 4.8.15 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X
4.13.16	Sixty-second Supplemental Indenture, dated as of July 9, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 9, 2010, File No. 1-3543).							X
4.13.17	Sixty-third Supplemental Indenture, dated as of September 23, 2010, (incorporated by reference to Exhibit 4.8.17 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X
4.13.18	Sixty-fourth Supplemental Indenture, dated as of December 1, 2011, (incorporated by reference to Exhibit 4(d)(2)(xviii) to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 30, 2013, File No. 333-191462-03).							X
4.13.19	Sixty-fifth Supplemental Indenture, dated as of March 15, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 15, 2012, File No. 1-3543).							X
4.13.20	Sixty-sixth Supplemental Indenture, dated as of July 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 11, 2013, File No. 1-3543).							X
4.13.21	Sixty-seventh Supplemental Indenture, dated as of January 1, 2016, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee, supplementing and amending the Indenture of Mortgage or Deed of Trust, dated September 1, 1939, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-3543).							X
4.13.22	Sixty-eighth Supplemental Indenture, dated as of May 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 12, 2016, File No. 1-3543).							X
4.14	Repayment Agreement between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Dayton Power and Light Company, dated as of December 23, 1992, (filed with registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-1232).						X	

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Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.15	Unsecured Promissory Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and the Rural Utilities Service, dated as of October 14, 1998, (incorporated by reference to Exhibit 4 to registrant's Annual Report on Form 10-K for the year ended December 31, 1998, filed on March 8, 1999, File No. 1-3543).							X
4.16	6.302% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(yyy) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).							X
4.17	6.403% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(zzz) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).							X
4.18			X	Contingent Value Obligation Agreement between Progress Energy, Inc. (formerly CP&L Energy, Inc.) and The Chase Manhattan Bank, as Trustee, dated as of November 30, 2000, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 1, 2000, File No. 1-3382).				
4.19	Form of 3.47% Series A Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).							X
4.20	Form of 3.57% Series B Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).							X
4.21	Form of 4.65% Senior Notes due 2043 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).							X
4.22	Form of 4.10% Senior Notes due 2034 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).							X
4.23	Form of 3.60% Senior Notes due 2025 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).							X
4.24	Form of 3.64% Senior Notes due 2046 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).							X
4.25	Form of 4.24% Series B Senior Notes due June 6, 2021 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).							X
4.26	Indenture, dated as of April 1, 1993, between Piedmont and The Bank of New York Mellon Trust Company, N.A. (as successor to Citibank, N.A.), Trustee (incorporated by reference to Exhibit 4.1 to registrant's Registration Statement on Form S-3 filed on May 16, 1995, File No. 33-59369).							X
4.26.1	Second Supplemental Indenture, dated as of June 15, 2003, between Piedmont and Citibank, N.A., Trustee (incorporated by reference to Exhibit 4.3 to registrant's Registration Statement on Form S-3 filed on June 19, 2003, File No. 333-106268).							X
4.26.2	Fourth Supplemental Indenture, dated as of May 6, 2011, between Piedmont Natural Gas Company, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-3-ASR filed on July 7, 2011, File No. 333-175386).							X
4.26.3	Fifth Supplemental Indenture, dated August 1, 2013, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).							X

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Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.26.4	Sixth Supplemental Indenture, dated September 18, 2014, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).							X
4.26.5	Seventh Supplemental Indenture, dated September 14, 2015, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).							X
4.26.6	Eighth Supplemental Indenture, dated July 28, 2016, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).							X
4.27	Medium-Term Note, Series A, dated as of October 6, 1993 (incorporated by reference to Exhibit 4.8 to registrant's Annual Report on Form 10-K for the year ended October 31, 1993, File No. 1-06196).							X
4.28	Medium-Term Note, Series A, dated as of September 19, 1994 (incorporated by reference to Exhibit 4.9 to registrant's Annual Report on Form 10-K for the year ended October 31, 1994, File No. 1-06196).							X
4.29	Form of 6% Medium-Term Note, Series E, dated as of December 19, 2003 (incorporated by reference to Exhibit 99.2 to registrant's Current Report on Form 8-K filed on December 23, 2003, File No. 1-06196).							X
4.30	Form of Master Global Note (incorporated by reference to Exhibit 4.4 to registrant's Registration Statement on Form S-3 filed on April 30, 1997, File No. 333-26161).							X
4.31	Pricing Supplement of Medium-Term Notes, Series B, dated October 3, 1995 (incorporated by reference to Exhibit 4.10 to registrant's Annual Report on Form 10-K for the year ended October 31, 1995, File No. 1-06196).							X
4.32	Pricing Supplement of Medium-Term Notes, Series B, dated October 4, 1996 (incorporated by reference to Exhibit 4.11 to registrant's Annual Report on Form 10-K for the year ended October 31, 1996, File No. 1-06196).							X
4.33	Pricing Supplement of Medium-Term Notes, Series C, dated September 15, 1999 (incorporated by reference to Rule 424(b)(3) Pricing Supplement to Form S-3 Registration Statement Nos. 33-59369 and 333-26161).							X
4.34	Agreement of Resignation, Appointment and Acceptance dated as of March 29, 2007, by and among Piedmont Natural Gas Company, Inc., Citibank, N.A., and The Bank of New York Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended April 30, 2007, filed on June 8, 2007, File No. 1-06196).							X
10.1**	Directors' Charitable Giving Program (incorporated by reference to Exhibit 10-P to Duke Energy Carolinas, LLC's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-4928).							X
10.1.1**	Amendment to Directors' Charitable Giving Program, dated as of June 18, 1997, (incorporated by reference to Exhibit 10-1.1 to Duke Energy Carolinas, LLC's Annual Report on Form 10-K for the year ended December 31, 2003, filed on March 15, 2004, File No. 1-4928).							X
10.1.2**	Amendment to Directors' Charitable Giving Program, dated as of July 28, 1997, (incorporated by reference to Exhibit 10-1.2 to Duke Energy Carolinas, LLC's Annual Report on Form 10-K for the year ended December 31, 2003, filed on March 15, 2004, File No. 1-4928).							X
10.1.3**	Amendment to Directors' Charitable Giving Program, dated as of February 18, 1998, (incorporated by reference to Exhibit 10-1.3 to Duke Energy Carolinas, LLC's Annual Report on Form 10-K for the year ended December 31, 2003, filed on March 15, 2004, File No. 1-4928).							X

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.2	Agreements with Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-32853).							
10.3	Asset Purchase Agreement between Saluda River Electric Cooperative, Inc., as Seller, and Duke Energy Carolinas, LLC, as Purchaser, dated as of December 20, 2006, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 27, 2006, File No. 1-4928).							
10.4	Settlement between Duke Energy Corporation, Duke Energy Carolinas, LLC and the U.S. Department of Justice resolving Duke Energy's used nuclear fuel litigation against the U.S. Department of Energy, dated as of March 6, 2007, (incorporated by reference to Item 8.01 to registrant's Current Report on Form 8-K filed on March 12, 2007, File No. 1-4928).							
10.5	ATM Equity Offering Sales Agreement dated January 7, 2015 between the Company and Merrill Lynch, Pierce, Fenner & Smith Incorporated (incorporated by reference to Exhibit 1.1 to registrant's Current Report on Form 8-K filed on January 7, 2015, File No. 1-06196).							
10.6	Letter Agreement between Georgia Natural Gas Company and Piedmont Energy Company dated February 12, 2016 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-06196).							
10.7	Assignment of Membership Interests dated as of October 3, 2016 between Piedmont ACP Company, LLC and Dominion Atlantic Coast Pipeline, LLC, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 7, 2016, File No. 1-06196).							
10.8	Agreements between Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006 filed on August 9, 2006, File No. 1-32853).							
10.9	Conveyance and Assignment Agreement, dated as of October 3, 2016, by and between Piedmont Energy Company and Georgia Natural Gas Company (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).							
10.10	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Exhibit 10.16 to registrant's Annual Report on Form 10-K for the year ended December 31, 2008, filed on March 13, 2009, File No. 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)							
10.11	Formation and Sale Agreement between Duke Ventures, LLC, Crescent Resources, LLC, Morgan Stanley Real Estate Fund V U.S. L.P., Morgan Stanley Real Estate Fund V Special U.S., L.P., Morgan Stanley Real Estate Investors V U.S., L.P., MSP Real Estate Fund V, L.P., and Morgan Stanley Strategic Investments, Inc., dated as of September 7, 2006, (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 9, 2006, File No. 1-32853).							
10.12	Operating Agreement of Pioneer Transmission, LLC (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2008, filed on November 7, 2008, File No. 1-32853).							

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.13**	Amended and Restated Duke Energy Corporation Directors' Saving Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.32 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).							
10.14	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Item 1.01 to registrant's Current Report on Form 8-K filed on December 19, 2008, File Nos. 1-32853 and 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)							
10.15**	Duke Energy Corporation Executive Severance Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on January 13, 2011, File No. 1-32853).							
10.16	\$6,000,000,000 Five-Year Credit Agreement between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Carolina Power and Light Company d/b/a Duke Energy Progress, Inc. and Florida Power Corporation, d/b/a Duke Energy Florida, Inc., as Borrowers, the lenders listed therein, Wells Fargo Bank, National Association, as Administrative Agent, Bank of America, N.A. and The Royal Bank of Scotland plc, as Co-Syndication Agents and Bank of China, New York Branch, Barclays Bank PLC, Citibank, N.A., Credit Suisse AG, Cayman Islands Branch, Industrial and Commercial Bank of China Limited, New York Branch, JPMorgan Chase Bank, N.A. and UBS Securities LLC, as Co-Documentation Agents, dated as of November 18, 2011, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 25, 2011, File Nos. 1-32853, 1-4928, 1-1232 and 1-3543).							
10.16.1	Amendment No. 1 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., Duke Energy Florida, Inc., and Wells Fargo Bank, National Association, dated as of December 18, 2013, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 23, 2013, File Nos. 1-32853, 1-4928, 1-3382, 1-3274, 1-1232 and 1-3543).							
10.16.2	Amendment No. 2 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., and Duke Energy Florida, Inc., the Lenders party hereto, the issuing Lenders party hereto, Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender, dated as of January 30, 2015, (incorporated by reference to Exhibit 10.1 of registrant's Current Report on Form 8-K filed on February 5, 2015, File Nos. 1-32853, 1-4928, 1-1232, 1-3543, 1-3382 and 1-3274).							
10.16.3	Amendment No. 3 and Consent, dated as of March 16, 2017, among the registrants, the Lenders party thereto, the issuing Lenders party thereto, and Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on March 17, 2017, File Nos. 1-32853, 1-04928, 1-03382, 1-03274, 1-01232, 1-03543, 1-06196).							
10.17**	Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Appendix A to registrant's Form DEF 14A filed on March 22, 2010, File No. 1-32853).							
10.17.1**	Amendment to Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.3 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2012, filed on August 8, 2012, File No. 1-32853).							

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.18**	Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Appendix C to registrant's DEF 14A filed on March 26, 2015, File No. 1-32853).							
10.19**	Form of Restricted Stock Unit Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on May 12, 2015, File No. 1-32853).							
10.20**	Form of Performance Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 8-K filed on May 12, 2015, File No. 1-32853).							
10.21**	Form of Performance Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-32853).							
10.22**	Form of Restricted Stock Unit Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-32853).							
10.23**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).							
10.24**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.24 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).							
10.25**	Performance-Based Retention Award Agreement (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).							
10.26**	Performance Award Agreement (incorporated by reference to Exhibit 10.3 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).							
10.27*	Performance Award Agreement (incorporated by reference to Exhibit 10.27 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).							
10.28	Settlement Agreement between Duke Energy Corporation, the North Carolina Utilities Commission Staff and the North Carolina Public Staff, dated as of November 28, 2012, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 29, 2012, File No. 1-32853).							
10.29	Settlement Agreement between Duke Energy Corporation and the North Carolina Attorney General, dated as of December 3, 2012, (incorporated by reference to Item 7.01 to registrant's Current Report on Form 8-K filed on December 3, 2012, File No. 1-32853).							
10.30**	Form of Change-in-Control Agreement (incorporated by reference to Exhibit 10.58 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2012, filed on March 1, 2013, File No. 1-32853).							
10.31**	Amended and Restated Duke Energy Corporation Executive Cash Balance Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.52 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32852).							
10.32	Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letter, dated as of February 18, 1982, and amendment, dated as of February 24, 1982; (incorporated by reference to Exhibit 10(a) to registrant's File No. 33-25560).				X			

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.33	Operating and Fuel Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letters, dated as of August 21, 1981, and December 15, 1981, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(b) to registrant's File No. 33-25560).			X				
10.34	Power Coordination Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency and amending letter, dated as of January 29, 1982, (incorporated by reference to Exhibit 10(c) to registrant's File No. 33-25560).			X				
10.35	Amendment, dated as of December 16, 1982, to Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Eastern Municipal Power Agency (incorporated by reference to Exhibit 10(d) to registrant's File No. 33-25560).			X				
10.36**	Progress Energy, Inc. 2007 Equity Incentive Plan (incorporated by reference to Exhibit C to registrant's Form DEF 14A filed on March 30, 2007, File No. 1-15929).			X				
10.37**	Form of Letter Agreement executed by certain officers of Progress Energy, Inc., waiving certain rights under Progress Energy, Inc.'s Management Change-in-Control Plan and their employment agreements, dated as of January 8, 2011, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on January 10, 2011, File No. 1-15929).			X				
10.38**	Progress Energy, Inc. Management Change-in-Control Plan, Amended and Restated, effective July 13, 2011, (incorporated by reference to Exhibit 10(d) to registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2011, filed on November 8, 2011, File Nos. 1-15929, 1-3382 and 1-3274).			X	X	X		
10.39	Precedent and Related Agreements between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a Progress Energy Florida, Inc. ("PEF")), Southern Natural Gas Company, Florida Gas Transmission Company ("FGT"), and BG LNG Services, LLC ("BG"), including: a) Precedent Agreement between Southern Natural Gas Company and PEF, dated as of December 2, 2004; b) Gas Sale and Purchase Contract between BG and PEF, dated as of December 1, 2004; c) Interim Firm Transportation Service Agreement by and between FGT and PEF, dated as of December 2, 2004; d) Letter Agreement between FGT and PEF, dated as of December 2, 2004, and Firm Transportation Service Agreement between FGT and PEF to be entered into upon satisfaction of certain conditions precedent; e) Discount Agreement between FGT and PEF, dated as of December 2, 2004; f) Amendment to Gas Sale and Purchase Contract between BG and PEF, dated as of January 28, 2005; and g) Letter Agreement between FGT and PEF, dated as of January 31, 2005, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K/A filed on March 15, 2005, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)			X		X		

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Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.40			X		X			
10.41**	X							
10.41.1**	X							
10.42**	X							
10.43**	X							
10.44**	X							
10.44.1	X							
10.45	X						X	
10.46	X			X				
10.47	X							
10.48	X							
10.49	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.50	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.4 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).	X							
10.51	\$1,500,000,000 Amended and Restated Term Loan Agreement among Duke Energy Corporation, as Borrower, the Lenders listed therein, The Bank of Tokyo-Mitsubishi UFJ, Ltd., as Administrative Agent, and The Bank of Tokyo-Mitsubishi UFJ, Ltd., Santander Bank, N.A. and TD Bank, N.A., as Joint Lead Arrangers and Bookrunners, dated as of August 1, 2016, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016, filed on August 4, 2016, File No. 1-32853).	X							
10.52	Purchase and Sale Agreement by and among Duke Energy International Group S.à.r.l., Duke Energy International Brazil Holdings S.à.r.l. and China Three Gorges (Luxembourg) Energy S.à.r.l., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.1 to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X							
10.53	Purchase and Sale Agreement by and among Duke Energy Brazil Holdings II, C.V., Duke Energy International Uruguay Investments SRL, Duke Energy International Group S.à.r.l., Duke Energy International España Holdings SL, Duke Energy International Investments No. 2 Ltd., ISQ Enerlam Aggregator, L.P., and Enerlam (JK) Holdings Ltd., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.2. to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X							
10.54**	Amended and Restated Employment Agreement, dated May 25, 2012, between Piedmont Natural Gas Company, Inc. and Franklin H. Yoho (incorporated by reference to Exhibits 10.1 and 10.2 to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2012, filed on September 7, 2012, File No. 1-06196).	X							
10.55**	Severance Agreements with Thomas E. Skains and Franklin H. Yoho, dated September 4, 2007, (incorporated by reference to Exhibits 10.2 and 10.2a to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2007, filed on September 7, 2007, File No. 1-06196).	X							
10.56**	Piedmont Natural Gas Company, Inc. Defined Contribution Restoration Plan, dated as of December 8, 2008, effective January 1, 2009, (incorporated by reference to Exhibit 10.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2009, filed on March 9, 2009, File No. 1-06196).	X							
10.56.1**	Instrument of Amendment for Piedmont Natural Gas Company, Inc. Defined Contribution Restoration Plan, dated as of January 23, 2012, by Piedmont Natural Gas Company, Inc. (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2012, filed on March 9, 2012, File No. 1-06196).	X							
10.56.2**	Instrument of Second Amendment for Piedmont Natural Gas Company, Inc. Defined Contribution Restoration Plan, dated September 15, 2016 (incorporated by reference to Exhibit 10.63.2 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.57**	Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 10.64 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24 2017, File No. 1-32853).	X							
10.57.1**	First Amendment to Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-8 filed on October 3, 2016, File No. 1-32853).	X							

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Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
10.58**	Form of Performance Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2016, filed on March 9, 2016, File No. 1-06196).								X
10.59**	Waiver of Certain Rights to Terminate for Good Reason between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.66 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).								X
10.60**	Notice of Non-Renewal of Employment Agreement between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.67 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).								X
10.61**	Retention Award Agreement, dated as of October 24, 2015, between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.68 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).								X
10.62	Confirmation of Forward Sale Transaction, dated as of March 1, 2016, between Duke Energy Corporation and Barclays Capital Inc. (incorporated by referenced to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on March 7, 2016, File No. 1-32853).								X
10.62.1	Additional Confirmation of Forward Sale Transaction, dated as of March 2, 2016, between Duke Energy Corporation and Barclays Capital Inc. (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 8-K filed on March 7, 2016, File No. 1-32853).								X
10.63	\$1,000,000,000 Credit Agreement, dated as of June 14, 2017, among Duke Energy Corporation, the lenders listed therein, The Bank of Nova Scotia, as Administrative Agent, PNC Bank, National Association, Sumitomo Mitsui Banking Corporation and TD Bank, N.A., as CO-Syndication Agents, and Bank of China, New York Branch, BNP Paribas, Santander Bank, N.A. and U.S. Bank National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-32853).								X
10.64	\$250,000,000 Term Loan Credit Agreement, dated as of June 14, 2017, among Piedmont Natural Gas Company, Inc. the lenders listed therein, U.S. Bank National Association, as Administrative Agent, Branch Banking and Trust Company and Regions Bank, as Co-Syndication Agents and PNC Bank, National Association, as Documentation Agent (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-06196).								X
10.65	Note Purchase Agreement, dated as of May 6, 2011, among Piedmont Natural Gas Company, Inc. and the Purchasers party thereto (incorporated by reference to Exhibit 10 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).								X
10.66	Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC dated April 9, 2012, by and among Williams Partners Operating LLC and Cabot Pipeline Holdings LLC (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).								X
10.66.1	First Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of November 9, 2012, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, and Piedmont Constitution Pipeline Company, LLC (incorporated by reference to Exhibit 10.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).								X

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Exhibit Number	Duke Energy	Duke Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.66.2								X
10.67								X
10.68								X
12.1	X							
12.2		X						
12.3			X					
12.4				X				
12.5					X			
12.6						X		
12.7							X	
12.8								X
21	X							
23.1.1	X							

PART IV

Exhibit Number	Description	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
23.1.2	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.2 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).		X						
23.1.3	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.3 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).				X				
23.1.4	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.5 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).					X			
23.1.5	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.5 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).						X		
23.1.6	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.6 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).							X	
23.1.7	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.7 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).								X
24.1	Power of attorney authorizing Lynn J. Good and others to sign the annual report on behalf of the registrant and certain of its directors and officers (incorporated by reference to Exhibit 24.1 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).	X							
24.2	Certified copy of resolution of the Board of Directors of the registrant authorizing power of attorney incorporated by reference to Exhibit 24.2 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).	X							
*31.1.1	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.1.2	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						
*31.1.3	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X					
*31.1.4	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				
*31.1.5	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X			
*31.1.6	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.						X		
*31.1.7	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.							X	
*31.1.8	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.								X
*31.2.1	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.2.2	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						
*31.2.3	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X					
*31.2.4	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				
*31.2.5	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X			

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Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
*31.2.6						X		
*31.2.7							X	
*31.2.8								X
*32.1.1	X							
*32.1.2		X						
*32.1.3			X					
*32.1.4				X				
*32.1.5					X			
*32.1.6						X		
*32.1.7							X	
*32.1.8								X
*32.2.1	X							
*32.2.2		X						
*32.2.3			X					
*32.2.4				X				
*32.2.5					X			
*32.2.6						X		
*32.2.7							X	
*32.2.8								X
*101.INS	X	X	X	X	X	X	X	X
*101.SCH	X	X	X	X	X	X	X	X
*101.CAL	X	X	X	X	X	X	X	X
*101.LAB	X	X	X	X	X	X	X	X
*101.PRE	X	X	X	X	X	X	X	X
*101.DEF	X	X	X	X	X	X	X	X

The total amount of securities of each respective registrant or its subsidiaries authorized under any instrument with respect to long-term debt not filed as an exhibit does not exceed 10 percent of the total assets of such registrant and its subsidiaries on a consolidated basis. Each registrant agrees, upon request of the SEC, to furnish copies of any or all of such instruments to it.

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

DUKE ENERGY CAROLINAS, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ WILLIAM E. CURRENS JR.
William E. Currens Jr.
Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil
 - /s/ LLOYD M. YATES
Lloyd M. Yates

Date: February 22, 2018

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

PROGRESS ENERGY, INC.
(Registrant)

By: /s/ LYNN J. GOOD
 Lynn J. Good
 Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
 Lynn J. Good
 Chief Executive Officer (Principal Executive Officer)

- (ii) /s/ STEVEN K. YOUNG
 Steven K. Young
 Executive Vice President and Chief Financial Officer (Principal Financial Officer)

- (iii) /s/ WILLIAM E. CURRENS JR.
 William E. Currens Jr.
 Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)

- (iv) Directors:
 /s/ LYNN J. GOOD
 Lynn J. Good
 /s/ JULIA S. JANSON
 Julia S. Janson

Date: February 22, 2018

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

DUKE ENERGY PROGRESS, LLC
(Registrant)

By: /s/ LYNN J. GOOD
 Lynn J. Good
 Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
 Lynn J. Good
 Chief Executive Officer (Principal Executive Officer)

- (ii) /s/ STEVEN K. YOUNG
 Steven K. Young
 Executive Vice President and Chief Financial Officer (Principal Financial Officer)

- (iii) /s/ WILLIAM E. CURRENS JR.
 William E. Currens Jr.
 Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)

- (iv) Directors:
 - /s/ DOUGLAS F. ESAMANN
 Douglas F. Esamann
 - /s/ LYNN J. GOOD
 Lynn J. Good
 - /s/ DHIAA M. JAMIL
 Dhiala M. Jamil
 - /s/ JULIA S. JANSON
 Julia S. Janson
 - /s/ LLOYD M. YATES
 Lloyd M. Yates

Date: February 22, 2018

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

DUKE ENERGY FLORIDA, LLC
(Registrant)

By: /s/ LYNN J. GOOD
 Lynn J. Good
 Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
 Lynn J. Good
 Chief Executive Officer (Principal Executive Officer)

- (ii) /s/ STEVEN K. YOUNG
 Steven K. Young
 Executive Vice President and Chief Financial Officer (Principal Financial Officer)

- (iii) /s/ WILLIAM E. CURRENS JR.
 William E. Currens Jr.
 Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)

- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
 Douglas F Esamann
 - /s/ LYNN J. GOOD
 Lynn J. Good
 - /s/ DHIAA M. JAMIL
 Dhiaa M. Jamil
 - /s/ JULIA S. JANSON
 Julia S. Janson
 - /s/ LLOYD M. YATES
 Lloyd M. Yates

Date: February 22, 2018



WWW.DUKE-ENERGY.COM



TRANSFORMING THE FUTURE

Duke Energy 2018 Annual Report and Form 10-K



**“WE’RE BUILDING AN AGILE, FORWARD-
THINKING ENERGY COMPANY.”**

2018

Transforming the Future



LYNN J. GOOD

| Chairman, President
and Chief Executive Officer

Dear Shareholder:

History is a powerful teacher and over our 100-year history, change has been constant and challenging times have come and passed. What sustains our company has remained remarkably consistent: the resolve of our employees, our focus on delivering value and our commitment to those we serve.

This is the lesson of our history – and it serves as a guide as we continue transforming the future.

In this year's letter, I can report that our company of 30,000 employees is taking control and driving our transformation. In 2018, we delivered strong financial results. We made good progress on our plan to modernize our grid, generate cleaner energy and expand our natural gas infrastructure. And, most importantly, we focused on customers, charging ahead to meet their needs – whether restoring power after historic storms or offering new services and technologies.

The pages that follow will provide you detail on the challenges and opportunities we faced in 2018 – and how we responded. In each circumstance, our people rose to the occasion. They demonstrated their commitment and courage to do what was needed to support our customers and deliver results for our shareholders.

Nothing truly transformative can be accomplished overnight, and we remain focused on the long term. We are building something special at Duke Energy.

CONTINUED FINANCIAL PERFORMANCE

2018 was a strong year for Duke Energy as we delivered on our financial commitments and positioned the company for sustainable long-term growth.

Our adjusted diluted earnings per share were \$4.72 for the year – within the top half of our original guidance range. Our results continue to be driven by strong growth from our electric, natural gas and commercial renewables businesses. In addition, our long-term growth capital plan and cost management discipline continue to generate positive results.

We maintained our focus on operations and maintenance expenses in 2018 – and remain on track to keep costs flat through 2023. We also made significant progress to improve productivity and identify potential cost reductions that support our long-term strategy. Last year, we created Lighthouse, an employee-driven initiative focused on identifying the best ways to use digital capabilities to transform our business. More than 400 employees are implementing digital solutions that will deliver new services and benefits for our customers, and cost savings in 2019 and beyond.

Our stock performed well in 2018 as our total shareholder return of 7.4 percent outperformed the Philadelphia Utility Index. It was also well ahead of the 4.4 percent decline in the S&P 500. 2019 marks the 93rd consecutive year of paying a quarterly cash dividend, and in 2018 we increased it by 4.2 percent. We remain committed to continue growing the dividend in the future.

This past year, we successfully responded to the effects of federal tax reform, which provided an opportunity to pass the direct benefits of the new law to customers. We issued \$2 billion of common equity to help support the balance sheet, including a common equity offering that was markedly oversubscribed. This is a testament to the value investors see in owning Duke Energy stock. Likewise, we achieved constructive regulatory outcomes regarding tax reform and the

effect on customers' rates in all our electric and gas jurisdictions. This allowed us to maintain the credit quality of our utilities and holding company.

In November, our Duke Energy Carolinas utility completed its inaugural issuance of \$1 billion in green bonds that will finance green energy projects in the Carolinas. This represents one of the largest green bond transactions from a utility. We are investing in more clean and renewable energy to transform our energy future, and it has received significant interest from investors.

Our performance in 2018 gives us confidence in our ability to consistently grow the company. This February, we announced our 2019 adjusted diluted earnings guidance range of \$4.80 to \$5.20 per share. Our long-term growth rate remains at 4 to 6 percent, underpinned by our commitment to deliver strong results on our \$37 billion growth capital plan over the next five years.

The investor proposition we introduced two years ago remains relevant today. We continue to see the benefits of our portfolio transition – with a focus on stable, predictable and regulated businesses – and our long-term strategy. The fundamentals of our business are strong and allowed us to deliver growth in earnings and dividends in a low-risk, predictable and transparent way.

PUSHING OUR STRATEGY FORWARD

Duke Energy, like companies in all industries, continues to face a transformational wave – a mix of rising customer demands, technology adoption and changing political dynamics – that requires us to adapt how we operate and deliver value. The pace of change is only increasing. We saw that clearly in 2018 – and don't see it slowing down soon.

But change brings opportunity, and we're using it to transform our business. We're executing our strategy, making needed adjustments and accelerating work to keep us moving toward our



STRENGTHEN THE GRID

Our strategic enhancements will allow us to strengthen the grid, making it more resilient and secure, as well as incorporate new technologies to better serve customers, improve reliability and integrate renewable energy.



goals. We're also reshaping our workforce to ensure we're staffed efficiently and with the right skills as we embrace digital tools and agile processes.

Transforming the Customer Experience

Today, we increasingly face new competition from those who focus on the needs of people, not wires and poles, and use data, technology and insights to bring customers more value and services they want. It is no longer enough for us to be great system operators. To win, we must put the customer at the center of all we do.

Our customer transformation cannot be incremental. That's why we're focused on marrying technology, ability and information to engage with customers along their life cycle with us.

In 2018, we focused on turning data into knowledge, better identifying and informing priorities for our customers. Based on this extensive data, we're improving how our customers pay their bills, report outages and start service. We're also improving vegetation management and making upgrades to outdoor lighting.

The response has been overwhelmingly positive. We saw improvements across almost all jurisdictions in our performance as measured by J.D. Power's Customer Service Index for residential electric customers. In addition, we saw a nearly 20-point increase in customer advocacy in 2018. This real-time customer feedback will continue to guide us moving forward.

We also made progress upgrading our customer information system – an important platform that will enable new features, providing enhanced marketing and new communications capabilities for customers. We've already started rolling out segments of it and plan to have the new platform fully implemented by 2022.

Our customers have high expectations for us, and we're committed to not only meeting them but anticipating them. We have much to do, but

2018 showed that we're embracing this challenge head-on.

Modernizing the Energy Grid

The energy grid is a true engineering marvel – a vast system that generates and delivers affordable, reliable power that fuels today's industrial and digital economy. As we look to exceed our customers' demand for new benefits and solutions, we're investing to create a more modern, intelligent grid that can also meet ever-changing physical and cyber security challenges.

Our strategic enhancements will allow us to strengthen the grid, making it more resilient and secure, as well as incorporate new technologies to better serve customers, improve reliability and integrate renewable energy.

Smart meters remain a key technology in our strategy. We installed more than 1.6 million smart meters in 2018 and now more than 62 percent of our customers have this technology. With it, customers can access enhanced usage information and alerts. Smart meters also improve outage detection and give customers more options to improve their experience. We completed deployments in Kentucky and made significant progress in the Carolinas and Indiana. And in Florida, we started deployments, helping us stay on track to be fully deployed in all our jurisdictions by year-end 2021.

In 2018, we improved the security of the grid against physical and cyber security risks. We upgraded equipment and installed protective devices to meet higher standards. We also launched grid strengthening work to identify the most outage-prone power lines on our system and move those lines underground. Initial conversions in Ohio, Florida and the Carolinas are reducing outages and improving our customers' experience.

Across our footprint, self-healing technologies, which automatically isolate trouble and restore power, prevented more than 700,000 extended power outages and saved customers approximately 95 million outage minutes in 2018. In addition, our technology prevented 80,000



SMART METERS

Smart meters remain a key technology in our strategy. We installed more than 1.6 million smart meters in 2018 and now more than 62 percent of our electric customers have this technology.



RENEWABLE ENERGY

We are bringing more renewables to our customers. Over the past four years, we connected more than 2,500 megawatts of solar to our grid in the Carolinas, enough to power about a half million homes.

extended outages during Hurricane Florence and gave us better information to expedite restoration following this storm.

We are excited about the enhancements we are seeing to improve reliability, mitigate outages, and create new and better benefits for customers.

We look forward to continuing this important work in the year ahead.

Generating Cleaner Energy

Everyone who has a stake in Duke Energy's success – from our employees to customers, investors and more – wants to be part of the answer to generating cleaner power. As a result, our company is a leader in reducing emissions and delivering more renewable energy to customers.

Over the past year, we continued to transition our generation fleet from coal to natural gas, expand renewable generation and leverage our modernized grid to support new technologies. This has kept us on track to reduce our carbon emissions by 40 percent from our 2005 levels by 2030.

In 2018, we brought two combined-cycle, natural gas-fired plants online – W.S. Lee and Citrus County – and our Western Carolinas Modernization Project in Asheville, North Carolina, remains on

track for a late 2019 in-service date. These highly efficient natural gas plants will help us deliver a cleaner, smarter energy future for our customers.

We are bringing more renewables to our customers. Over the past four years, we connected more than 2,500 megawatts of solar to our grid in the Carolinas, enough to power about a half million homes. This has kept North Carolina second in the nation for overall solar power capacity, behind only California.

Last year, we launched the first request for proposal for new renewable energy resources under North Carolina House Bill 589. This 680-megawatt solicitation seeks projects that can be placed in service by the end of 2020. In addition, more than 1,700 North Carolina customers installed solar systems and qualified for rebates as part of our \$62 million, multiyear rebate program. In Florida, our Hamilton Solar Power Plant went into service in December, bringing nearly 75 megawatts to customers. The plant is part of our plan to add 700 megawatts of solar facilities in the state.

Commercial renewables expanded its footprint to 14 states as our 24.9-megawatt Shoreham Solar Commons project came online last year in New York. Looking ahead, this business has over 1,000 megawatts in late stages of development. We're

also investing in battery storage and have outlined plans to deploy \$500 million in battery storage projects in the Carolinas over the next 15 years – equal to about 300 megawatts of capacity. We also have plans for an additional 75 megawatts of batteries in our other regions.

Nuclear energy is vital in our efforts to limit emissions. Our 11 units remain fundamental to providing carbon-free generation to our Carolinas customers – and meeting our long-term carbon reduction goals. We continue to evaluate subsequent license renewals for our nuclear fleet for an additional 20 years.

Our progress in 2018 helped us continue our march toward a cleaner energy future.

Building Our Natural Gas Infrastructure

Our transition to a lower-carbon future is well underway in the electric sector – and natural gas is helping lead the way. We continue to benefit from our merger with Piedmont Natural Gas as we expand our natural gas infrastructure and leverage benefits from the overlap between our electric and gas businesses.

In 2018, we commissioned two dual-fuel units at our Rogers Energy Complex, which can now generate electricity for customers using either natural gas or coal. We also plan to retrofit units at our Belews Creek and Marshall Steam stations, giving us more fuel flexibility. In addition, Piedmont Natural Gas announced plans to build and operate a liquefied natural gas facility in Robeson County, North Carolina. This \$250 million investment will drive significant economic benefits for the local community and help Piedmont meet demand during peak usage days.

We also worked diligently to complete the Atlantic Coast Pipeline (ACP) project – critical infrastructure that will allow us to bring a low-cost gas supply and economic development opportunities to the Southeast. We received Federal Energy Regulatory Commission approval for full construction in West Virginia and North Carolina and made progress with mainline construction and tree felling. In addition, ACP

received all major state permits in Virginia, a critical milestone for the project.

Recent legal and permitting challenges, however, have resulted in a stoppage of major construction activity along the pipeline route. As we navigate and seek resolution to the current challenges, we continue to work with our project partners to explore opportunities that would support an efficient restart of construction in 2019.

ACP has been one of the most thoroughly reviewed infrastructure projects of its kind. Delaying it has forced consumers and businesses to pay higher energy costs, slowed the transition to cleaner energy and resulted in the loss of more than 4,500 jobs.

We remain committed to this project and the important benefits our expanding natural gas infrastructure brings to our customers.

Engaging Stakeholders to Achieve Great Outcomes

Our company is heavily regulated and operates under intense public scrutiny, all of which means there are many parties vested in our success. Finding common ground is how work gets done. It is how progress is made and how we believe we will thrive during our current transformation. That's why stakeholder engagement remains a critical part of our success.

In 2018, we achieved many positive regulatory outcomes, demonstrating our ability to work with stakeholders to achieve solutions that benefit customers and support our growth plans.

The North Carolina Utilities Commission issued constructive decisions in two rates cases that balance the needs of our customers and our company. This included addressing costs for responsibly closing coal ash basins and returning federal tax savings to customers. In addition, the Public Utilities Commission of Ohio adopted our settlement agreement, resolving several outstanding rate cases while creating a new grid rider for projects to modernize the grid, including



NUCLEAR ENERGY

Our nuclear fleet's capacity factor was 93 percent, marking the 20th consecutive year that our fleet's capacity factor has been above 90 percent.

smart meters and a battery project, and transform the customer experience.

We filed rate cases for our two South Carolina utilities in November to recover costs for modernizing our electric system while maintaining competitive rates for customers. We also presented a new grid improvement plan to the commission and have worked with stakeholders, through ongoing workshops and discussion sessions, on a cost-effective approach to modernize the energy grid.

We remain focused on working with a wide range of stakeholders to modernize our regulatory constructs – making the case to reform how we recover our investments to better serve our customers. This will remain an important goal for us as we continue delivering value to our customers and shareholders.

DELIVERING OPERATIONAL EXCELLENCE

The reliable operation of our power plants, grid and natural gas infrastructure, and our ability to respond in the face of new threats, is foundational

to our success. It is what is demanded of us by our customers, and directly impacts our financial results and our credibility with stakeholders. There is nothing we take more seriously.

This commitment starts with safety. We will not be successful without our steadfast commitment to the safety of our employees, the communities we serve and the environment. Our employees delivered strong safety results and maintained our industry-leading performance for another year.

In 2018, our generation fleet continued to perform well. Our nuclear fleet's capacity factor was 93 percent, marking the 20th consecutive year that our fleet's capacity factor has been above 90 percent. Our nuclear fleet provided more than 72 billion kilowatt-hours of carbon-free energy last year – powering half of our Carolinas customers.

However, our focus on operational excellence was tested by record weather in 2018 in the form of hurricanes Florence and Michael.

In the span of a few months, our lineworkers restored 3 million outages – working in some of the most difficult conditions imaginable. Call centers, backed by corporate employees and our systems, handled over 3 million calls. We sent



SUPPORTING OUR COMMUNITIES

Last year, the Duke Energy Foundation donated more than \$31 million to support our communities. In addition, our employees and retirees made their presence known, volunteering over 126,000 hours.



over 27 million emails and texts to customers, giving them a line of sight into our response efforts. And our plant employees kept our assets safe. Case in point: Our Brunswick Nuclear Plant took a direct hit from Hurricane Florence, but our employees safely secured the plant and got it back online shortly after the storm passed.

Our successful storm response was driven, in part, by lessons learned from previous storms. After Hurricane Irma, for example, we performed information technology system stress tests to simulate storm volumes of outages and customer contacts. We also conducted extensive simulations and drills to test our storm response readiness.

As a result, our employees have set a new standard for storm response, as evidenced by Duke Energy being awarded Edison Electric Institute's Emergency Recovery Award for our restoration efforts after Hurricane Florence.

Operational excellence also continues to underpin our coal ash management efforts. In North Carolina, our ash basins were maintained and operated safely, including during storms. We excavated over 5 million tons of ash in 2018 – and have excavated approximately 20 million tons in North Carolina to date. Additional upgrades to facilities, combined with the completion of permanent water lines for plant neighbors, resulted in “low-risk” rankings for basins at seven sites. This important outcome allows us to pursue the full range of closure options, including safely capping basins in place, at the six sites where plans are being reviewed by the North Carolina Department of Environmental Quality. Our priority remains protecting people and the environment while keeping costs reasonable for our customers.

Our focus on cleaner, sustainable operations shows in our performance. For the 13th consecutive year, Duke Energy was included in the Dow Jones Sustainability Index, demonstrating our commitment to sustainability and corporate responsibility.

CREATING POWERFUL COMMUNITIES

Since the company was founded in 1904, we have been an active, engaged partner in our communities. Vibrant, successful communities drive our growth and, just as importantly, are home to our employees. Helping our neighbors live better lives is a significant part of our mission.

You see this commitment through our support of economic development as we collaborate with local government, business and community leaders. In 2018, Duke Energy attracted \$5.3 billion in capital investment, helping create 14,000 jobs. And for the 14th consecutive year, we were named to Site Selection magazine's annual list of Top 10 Utilities in Economic Development.

But our commitment goes beyond bringing new jobs and investment. We're proud to be active members of the communities where we live and work.

For more than a century, we have supported our communities through volunteerism and charitable giving. Last year, the Duke Energy Foundation donated more than \$31 million to support our communities. In addition, our employees and retirees made their presence known, volunteering over 126,000 hours.

We also launched a new campaign, called the Power of Giving, which empowers employees to support the cause of their choice and have their donations matched by the Duke Energy Foundation. Through the campaign, employees pledged \$5.3 million in charitable contributions. When combined with the Foundation matching gifts for this campaign, that is more than \$10 million in funding to support our communities.

Our Foundation focuses on creating powerful communities, and a key part is supporting the future workforce.

Our success as a company requires a talented, diverse workforce that is aligned to our mission. In 2018, we continued our efforts to attract



CUSTOMER EXPERIENCE

By executing our strategy, we will have deeper insight into our customers – allowing us to offer the experiences and products they look for from their energy provider.

employees who bring diverse thoughts, work and life experiences, perspectives, and cultures. In October, we appointed a new chief diversity officer to strengthen diversity in our recruiting pipeline, workforce and leadership team. In addition, Duke Energy became the first energy company to sign the Historically Black Colleges and Universities (HBCU) Partnership Challenge. Created by the Bipartisan HBCU Caucus, this initiative seeks to promote greater engagement and support from private companies with HBCUs.

We continued our focus on veterans, helping former military personnel map their skills to utility industry jobs. Our work resulted in hiring nearly 200 veterans as we look to fill at least 12 percent of our open positions with veterans. This continued support of those who serve was recognized by the U.S. Department of Defense, which awarded us the 2018 Employer Support Freedom Award. This is the highest honor the department gives to companies for their support of employees who serve in the National Guard and Reserve.

Duke Energy's commitment to our communities remains steadfast. It's an honor to serve them, and we will continue to invest in our communities to protect the environment, support students and develop a workforce that is ready to lead us forward.

TRANSFORMING THE FUTURE

Since I joined Duke Energy, I have worked with many courageous and talented people. They remain the driving force of our continued success. In the past year, our workforce has embraced our digital transformation, responded to the changing needs of our business and shown unwavering commitment to our customers.

Our company's reputation is forged by our employees, who live, work and volunteer in the cities and towns we serve. It is an honor to work alongside them.

One of those people was Jim Rogers, my predecessor as CEO, who passed away in December. Jim was a transformational leader who served with a boundless passion. He is remembered for his charisma and leadership, which helped shape the future of Duke Energy and our industry. Jim brought unbridled enthusiasm to his work and approached each year with a fresh perspective, renewed energy and great commitment. That spirit lives on at Duke Energy – and helps fuel our continued transformation.

We cannot predict with precision what the next year, let alone five years, will hold for us. What I can say is that the company you've read about in this letter will look different in five years – because we're building an agile, forward-thinking energy company.

By executing our strategy, we will have deeper insight into our customers – allowing us to offer the experiences and products they look for from their energy provider. We will have more technology on our system, making our company smarter, cleaner and more efficient. And we'll build on strong customer and stakeholder relationships to ensure we're delivering on their expectations for us.

I want to thank you, as shareholders, for your investment in Duke Energy. 2018 was a powerful chapter in our company's history, and I'm excited about what lies ahead.



Lynn J. Good
Chairman, President and Chief Executive Officer

Annual Meeting of Shareholders

Duke Energy's 2019 Annual Meeting of Shareholders will be:

Date: May 2, 2019

Time: 12:30 p.m. Eastern time

Visit: duke-energy.onlineshareholdermeeting.com

Audio broadcast: 888.254.3590
confirmation code: 1907885

To participate in the online Annual Meeting, shareholders will need the 16-digit control number included in the Notice of Internet Availability of the Proxy Materials, on the proxy card, and on the instructions that accompanied your proxy materials.

Shareholder Services

Shareholders may call 800.488.3853 or 704.382.3853 with questions about their stock accounts, legal transfer requirements, address changes, or replacement dividend checks. Additionally, registered shareholders can view their account online through DUK-Online, available at duke-energy.com/investors. Send written requests to:

Investor Relations
Duke Energy
P.O. Box 1005
Charlotte, NC 28201

For electronic correspondence, visit duke-energy.com/investors.

Stock Exchange Listing

Duke Energy's common stock is listed on the New York Stock Exchange. The Corporation's common stock trading symbol is DUK.

Website Addresses

Corporate homepage: duke-energy.com
Investor Relations: duke-energy.com/investors

InvestorDirect Choice Plan

The InvestorDirect Choice Plan provides a simple and convenient way to purchase common stock directly through the Corporation, without incurring brokerage fees. Purchases may be made weekly. Bank drafts for monthly purchases, as well as a safekeeping option for depositing certificates into the plan, are available.

The plan also provides for full reinvestment, direct deposit, or cash payment of a portion of the dividends. Additionally, participants may register for DUK-Online, our online account management service.

Financial Publications

Duke Energy's Annual Report and related financial publications can be found on our website at duke-energy.com/investors. Printed copies are also available free of charge upon request.

Duplicate Mailings

If your shares are registered in different accounts, you may receive duplicate mailings of annual reports, proxy statements and other shareholder information. Call Investor Relations for instructions on eliminating duplications or combining your accounts.

Transfer Agent and Registrar

Duke Energy maintains shareholder records and acts as transfer agent and registrar for the Corporation's common stock.

Dividend Payment

Duke Energy has paid quarterly cash dividends on its common stock for 93 consecutive years. For the remainder of 2019, dividends on common stock are expected to be paid, subject to declaration by the Board of Directors, on June 17, September 16 and December 16.

Bond Trustee

If you have questions regarding your bond account, call 800.254.2826, or write to:

The Bank of New York Mellon
Global Trust Services
101 Barclay Street – 21st Floor
New York, NY 10286

Send Us Feedback

We welcome your opinion on this annual report. Please visit duke-energy.com/investors, where you can view and provide feedback on both the print and online versions of this report or contact Investor Relations directly. Duke Energy is an equal opportunity employer. This report is published solely to inform shareholders and is not to be considered an offer, or the solicitation of an offer, to buy or sell securities.

OUR FINANCIAL HIGHLIGHTS^a

(In millions, except per share amounts)

	2018	2017 ^b	2016 ^b
Operating Results			
Total operating revenues	\$24,521	\$23,565	\$22,743
Income from continuing operations	\$2,625	\$3,070	\$2,578
Net income	\$2,644	\$3,064	\$2,170
Cash Flow Data			
Net cash provided by operating activities	\$ 7,186	\$6,624	\$6,863
Common Stock Data			
Shares of common stock outstanding			
Year-end	727	700	700
Weighted average – basic and diluted	708	700	691
Reported diluted earnings per share (GAAP)	\$3.76	\$4.36	\$3.11
Adjusted diluted earnings per share (non-GAAP)	\$4.72	\$4.57	\$4.69
Dividends declared per share	\$3.64	\$3.49	\$3.36
Balance Sheet Data			
Total assets	\$145,392	\$137,914	\$132,761
Long-term debt including capital leases, less current maturities	\$51,123	\$49,035	\$45,576
Total Duke Energy Corporation stockholders' equity	\$43,817	\$41,739	\$41,033

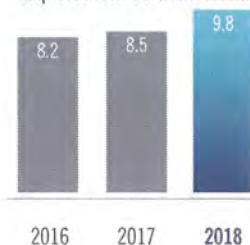
Earnings per share
(in dollars) ■ Reported Diluted ■ Adjusted Diluted



Dividends declared per share
(in dollars)



Capital and investment expenditures
(dollars in billions)



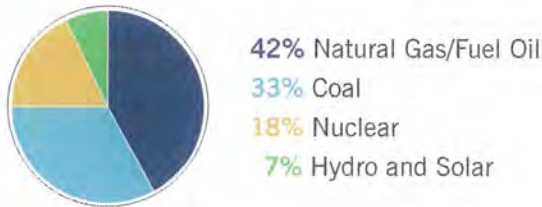
^aSignificant transactions reflected in the results above include: (i) regulatory and legislative charges related to Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and impairment charges in 2018 (see Notes 4, 11 and 12 to the Consolidated Financial Statements, "Regulatory Matters," "Goodwill and Intangible Assets" and "Investments in Unconsolidated Affiliates"); (ii) the sale of the International Disposal Group in 2016, including a loss on sale recorded within discontinued operations (see Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions"); and (iii) the acquisition of Piedmont in 2016, including losses on interest rate swaps related to the acquisition financing (see Note 2).

^bPrior year data has been recast to reflect the classification of the International Disposal Group as discontinued operations and to reflect the impacts of new accounting standards.

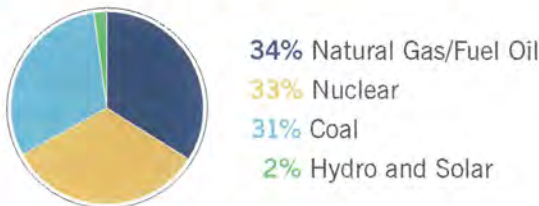
DUKE ENERGY AT A GLANCE

Electric Utilities and Infrastructure

Generation Diversity (percent owned capacity)¹



Generated (net output gigawatt-hours (GWh))²



Customer Diversity (in billed GWh sales)²



Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio.

Electric Operations

- Owns approximately 50,800 megawatts (MW) of generating capacity
- Service area covers about 95,000 square miles with an estimated population of 24 million
- Service to approximately 7.7 million residential, commercial and industrial customers
- 280,200 miles of distribution lines and a 31,400-mile transmission system

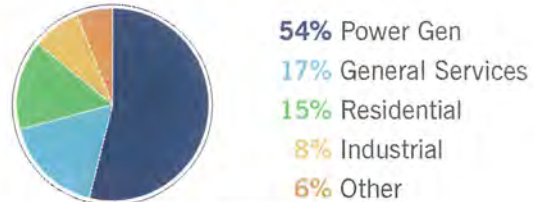
¹ As of December 31, 2018. | ² For the year ended December 31, 2018.

³ Contains projects included in tax equity structures where investors have differing interests in the projects' economic attributes (100 percent of the tax equity projects' capacity is included).

Natural Gas Customer Diversity

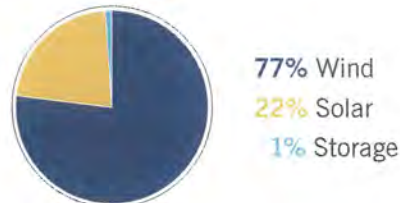
Gas Utilities and Infrastructure conducts natural gas distribution operations primarily through the regulated public utilities of Piedmont Natural Gas and Duke Energy Ohio.

Natural Gas Operations (throughput)²



- Regulated natural gas transmission and distribution services to approximately 1.6 million customers in the Carolinas, Tennessee, southwestern Ohio and Northern Kentucky
- Maintains more than 33,300 natural gas transmission and distribution pipelines and 27,700 miles of natural gas service pipelines

Duke Energy Renewables



Generation Diversity (percent owned capacity)^{1,3}

Duke Energy Renewables primarily acquires, develops, builds and operates wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage assets.

Duke Energy Renewables, part of the Commercial Renewables business segment, includes utility-scale wind and solar and distributed solar generation assets that total 2,991 MW across 18 states from 21 wind, 99 solar projects and one energy storage system. The power produced from renewable generation is primarily sold through long-term contracts to utilities, electric cooperatives, municipalities and commercial and industrial customers.

As part of its growth strategy, Duke Energy Renewables has expanded its investment portfolio through the addition of distributed solar companies.

DUKE ENERGY
CORPORATION

2018
Form 10-K

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549
FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the fiscal period ended December 31, 2018 or
 TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from _____ to _____

Commission file number _____ Registrant, State of Incorporation or Organization, Address of Principal Executive Offices and Telephone Number _____ IRS Employer Identification No. _____



1-32853 **DUKE ENERGY CORPORATION** 20-2777218
(a Delaware corporation) 550 South Tryon Street
Charlotte, NC 28202-1893 704-382-3853

Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number	Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number
1-4928	DUKE ENERGY CAROLINAS, LLC (a North Carolina limited liability company) 526 South Church Street Charlotte, North Carolina 28202-1803 704-382-3853 56-0205520	1-3274	DUKE ENERGY FLORIDA, LLC (a Florida limited liability company) 299 First Avenue North St. Petersburg, Florida 33701 704-382-3853 59-0247770
1-15929	PROGRESS ENERGY, INC. (a North Carolina corporation) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-215481	1-1232	DUKE ENERGY OHIO, INC. (an Ohio corporation) 139 East Fourth Street Cincinnati, Ohio 45202 704-382-3853 31-0240030
1-3382	DUKE ENERGY PROGRESS, LLC (a North Carolina limited liability company) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-0165465	1-3543	DUKE ENERGY INDIANA, LLC (an Indiana limited liability company) 1000 East Main Street Plainfield, Indiana 46168 704-382-3853 35-0594457
1-6196	PIEDMONT NATURAL GAS COMPANY, INC. (a North Carolina corporation) 4720 Piedmont Row Drive Charlotte, North Carolina 28210 704-364-3120 56-0556998		

SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE ACT

Registrant	Title of each class	Name of each exchange on which registered
Duke Energy Corporation (Duke Energy)	Common Stock, \$0.001 par value	New York Stock Exchange LLC
Duke Energy	5.125% Junior Subordinated Debentures due January 15, 2073	New York Stock Exchange LLC
Duke Energy	5.625% Junior Subordinated Debentures due September 15, 2078	New York Stock Exchange LLC

SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Duke Energy	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Duke Energy Florida, LLC (Duke Energy Florida)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Duke Energy Carolinas, LLC (Duke Energy Carolinas)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Duke Energy Ohio, Inc. (Duke Energy Ohio)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Progress Energy, Inc. (Progress Energy)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Duke Energy Indiana, LLC (Duke Energy Indiana)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Duke Energy Progress, LLC (Duke Energy Progress)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Piedmont Natural Gas Company, Inc. (Piedmont)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes No (Response applicable to all registrants.)

Indicate by check mark whether the registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrants have submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (\$232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. (Only applicable to Duke Energy)

Indicate by check mark whether Duke Energy is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether each of Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont is a large accelerated filer, accelerated filer, non-accelerated filer, smaller reporting company, or emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act. Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether each of the registrants is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No
Estimated aggregate market value of the common equity held by nonaffiliates of Duke Energy at June 30, 2018. \$56,283,598,357
Number of shares of Common Stock, \$0.001 par value, outstanding at January 31, 2019. 727,010,882

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Duke Energy definitive proxy statement for the 2019 Annual Meeting of the Shareholders or an amendment to this Annual Report are incorporated by reference into PART III, Items 10, 11 and 13 hereof. This combined Form 10-K is filed separately by eight registrants: Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont (collectively the Duke Energy Registrants). Information contained herein relating to any individual registrant is filed by such registrant solely on its own behalf. Each registrant makes no representation as to information relating exclusively to the other registrants.

Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont meet the conditions set forth in General Instructions I(1)(a) and (b) of Form 10-K and are, therefore, filing this Form 10-K with the reduced disclosure format specified in General Instructions I(2) of Form 10-K.

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CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This document includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements are based on management's beliefs and assumptions and can often be identified by terms and phrases that include "anticipate," "believe," "intend," "estimate," "expect," "continue," "should," "could," "may," "plan," "project," "predict," "will," "potential," "forecast," "target," "guidance," "outlook" or other similar terminology. Various factors may cause actual results to be materially different than the suggested outcomes within forward-looking statements; accordingly, there is no assurance that such results will be realized. These factors include, but are not limited to:

- State, federal and foreign legislative and regulatory initiatives, including costs of compliance with existing and future environmental requirements, including those related to climate change, as well as rulings that affect cost and investment recovery or have an impact on rate structures or market prices;

- The extent and timing of costs and liabilities to comply with federal and state laws, regulations and legal requirements related to coal ash remediation, including amounts for required closure of certain ash impoundments, are uncertain and difficult to estimate;
- The ability to recover eligible costs, including amounts associated with coal ash impoundment retirement obligations and costs related to significant weather events, and to earn an adequate return on investment through rate case proceedings and the regulatory process;
- The costs of decommissioning Crystal River Unit 3 and other nuclear facilities could prove to be more extensive than amounts estimated and all costs may not be fully recoverable through the regulatory process;
- Costs and effects of legal and administrative proceedings, settlements, investigations and claims;
- Industrial, commercial and residential growth or decline in service territories or customer bases resulting from sustained downturns of the economy and the economic health of our service territories or variations in customer usage patterns, including energy efficiency efforts and use of alternative energy sources, such as self-generation and distributed generation technologies;
- Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system, excess generation resources as well as stranded costs;
- Advancements in technology;
- Additional competition in electric and natural gas markets and continued industry consolidation;
- The influence of weather and other natural phenomena on operations, including the economic, operational and other effects of severe storms, hurricanes, droughts, earthquakes and tornadoes, including extreme weather associated with climate change;
- The ability to successfully operate electric generating facilities and deliver electricity to customers including direct or indirect effects to the company resulting from an incident that affects the U.S. electric grid or generating resources;
- The ability to obtain the necessary permits and approvals and to complete necessary or desirable pipeline expansion or infrastructure projects in our natural gas business;
- Operational interruptions to our natural gas distribution and transmission activities;
- The availability of adequate interstate pipeline transportation capacity and natural gas supply;
- The impact on facilities and business from a terrorist attack, cybersecurity threats, data security breaches, operational accidents, information technology failures or other catastrophic events, such as fires, explosions, pandemic health events or other similar occurrences;
- The inherent risks associated with the operation of nuclear facilities, including environmental, health, safety, regulatory and financial risks, including the financial stability of third-party service providers;
- The timing and extent of changes in commodity prices and interest rates and the ability to recover such costs through the regulatory process, where appropriate, and their impact on liquidity positions and the value of underlying assets;
- The results of financing efforts, including the ability to obtain financing on favorable terms, which can be affected by various factors, including credit ratings, interest rate fluctuations, compliance with debt covenants and conditions and general market and economic conditions;
- Credit ratings of the Duke Energy Registrants may be different from what is expected;
- Declines in the market prices of equity and fixed-income securities and resultant cash funding requirements for defined benefit pension plans, other post-retirement benefit plans and nuclear decommissioning trust funds;
- Construction and development risks associated with the completion of the Duke Energy Registrants' capital investment projects, including risks related to financing, obtaining and complying with terms of permits, meeting construction budgets and schedules and satisfying operating and environmental performance standards, as well as the ability to recover costs from customers in a timely manner, or at all;
- Changes in rules for regional transmission organizations, including changes in rate designs and new and evolving capacity markets, and risks related to obligations created by the default of other participants;
- The ability to control operation and maintenance costs;
- The level of creditworthiness of counterparties to transactions;
- Employee workforce factors, including the potential inability to attract and retain key personnel;
- The ability of subsidiaries to pay dividends or distributions to Duke Energy Corporation holding company (the Parent);
- The performance of projects undertaken by our nonregulated businesses and the success of efforts to invest in and develop new opportunities;
- The effect of accounting pronouncements issued periodically by accounting standard-setting bodies;
- The impact of U.S. tax legislation to our financial condition, results of operations or cash flows and our credit ratings;
- The impacts from potential impairments of goodwill or equity method investment carrying values; and
- The ability to implement our business strategy, including enhancing existing technology systems.

Additional risks and uncertainties are identified and discussed in the Duke Energy Registrants' reports filed with the SEC and available at the SEC's website at sec.gov. In light of these risks, uncertainties and assumptions, the events described in the forward-looking statements might not occur or might occur to a different extent or at a different time than described. Forward-looking statements speak only as of the date they are made and the Duke Energy Registrants expressly disclaim an obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Glossary of Terms

The following terms or acronyms used in this Form 10-K are defined below:

Term or Acronym	Definition	Term or Acronym	Definition
2013 Settlement	Revised and Restated Stipulation and Settlement Agreement approved in November 2013 among Duke Energy Florida, the Florida OPC and other customer advocates	Citrus County CC	Citrus County Combined Cycle Facility
the 2015 Plan	Duke Energy Corporation 2015 Long-Term Incentive Plan	CO ₂	Carbon Dioxide
2017 Settlement	Second Revised and Restated Settlement Agreement in 2017 among Duke Energy Florida, the Florida OPC and other customer advocates, which replaces and supplants the 2013 Settlement	Coal Ash Act	North Carolina Coal Ash Management Act of 2014
ACE	Affordable Clean Energy	COL	Combined Operating License
ACP	Atlantic Coast Pipeline, LLC, a limited liability company owned by Dominion, Duke Energy and Southern Company Gas	the Company	Duke Energy Corporation and its subsidiaries
ACP pipeline	The approximately 600-mile proposed interstate natural gas pipeline	Constitution	Constitution Pipeline Company, LLC
AFUDC	Allowance for funds used during construction	COSO	Committee of Sponsoring Organizations of the Treadway Commission
AFS	Available for Sale	CPCN	Certificate of Public Convenience and Necessity
the Agents	Wells Fargo Securities, LLC, Citigroup Global Market Inc., J.P. Morgan Securities, LLC	CPP	Clean Power Plan
ALJ	Administrative Law Judge	CRC	Cinergy Receivables Company LLC
AMi	Advanced Metering Infrastructure	Crystal River Unit 3	Crystal River Unit 3 Nuclear Plant
AMT	Alternative Minimum Tax	CSA	Comprehensive Site Assessment
AOCI	Accumulated Other Comprehensive Income (Loss)	CSAPR	Cross-State Air Pollution Rule
ARO	Asset Retirement Obligation	CT	Combustion Turbine
ASR	Accelerated Stock Repurchase Program	CTG	China Three Gorges (Luxembourg) Energy S.à.r.l.
ATM	At-the-market	CWA	Clean Water Act
Audit Committee	Audit Committee of the Board of Directors	DATC	Duke-American Transmission Co.
Barclays	Barclays Capital Inc.	D.C. Circuit Court	U.S. Court of Appeals for the District of Columbia
BCWF	Benton County Wind Farm, LLC	DCI	Distribution Capital Investment
Beckjord	Beckjord Generating Station	DEFPF	Duke Energy Florida Project Finance, LLC
Belews Creek	Belews Creek Steam Station	DEFR	Duke Energy Florida Receivables, LLC
Bison	Bison Insurance Company Limited	Deloitte	Deloitte & Touche LLP, and the member firms of Deloitte Touche Tohmatsu and their respective affiliates
Board of Directors	Duke Energy Board of Directors	DEPR	Duke Energy Progress Receivables, LLC
Brunswick	Brunswick Nuclear Plant	DERF	Duke Energy Receivables Finance Company, LLC
CAA	Clean Air Act	DHHS	North Carolina Department of Health and Human Services
Cardinal	Cardinal Pipeline Company, LLC	Directors' Savings Plan	Duke Energy Corporation Directors' Savings Plan
Catawba	Catawba Nuclear Station	DOE	U.S. Department of Energy
CC	Combined Cycle	DOJ	Department of Justice
CCR	Coal Combustion Residuals	Dominion	Dominion Resources
CCS	Carbon Capture and Storage	DRIP	Dividend Reinvestment Program
CEPCN	Certificate of Environmental Compatibility and Public Convenience and Necessity	DSM	Demand Side Management
CEO	Chief Executive Officer	Duke Energy	Duke Energy Corporation (collectively with its subsidiaries)
CertainTeed	CertainTeed Gypsum NC, Inc.	Duke Energy Carolinas	Duke Energy Carolinas, LLC
Cinergy	Cinergy Corp. (collectively with its subsidiaries)	Duke Energy Florida	Duke Energy Florida, LLC
		Duke Energy Indiana	Duke Energy Indiana, LLC
		Duke Energy Kentucky	Duke Energy Kentucky, Inc.
		Duke Energy Ohio	Duke Energy Ohio, Inc.

Term or Acronym	Definition	Term or Acronym	Definition
Duke Energy Progress	Duke Energy Progress, LLC	ISO	Independent System Operator
Duke Energy Registrants	Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont	ITC	Investment Tax Credit
East Bend	East Bend Generating Station	IURC	Indiana Utility Regulatory Commission
the EDA	Equity Distribution Agreement	Investment Trusts	Grantor trusts of Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana
EE	Energy efficiency	JDA	Joint Dispatch Agreement
EGU	Electric Generating Units	KO Transmission	KO Transmission Company
ELG	Effluent Limitations Guidelines	KPSC	Kentucky Public Service Commission
EPA	U.S. Environmental Protection Agency	kV	Kilovolt
EPC	Engineering, Procurement and Construction agreement	LDC	Local Distribution Company
EPS	Earnings Per Share	Lee Nuclear Station	William States Lee III Nuclear Station
ESP	Electric Security Plan	Levy	Duke Energy Florida's proposed nuclear plant in Levy County, Florida
ETR	Effective tax rate	LIBOR	London Interbank Offered Rate
Exchange Act	Securities Exchange Act of 1934	LLC	Limited Liability Company
Executive Savings Plan	Duke Energy Corporation Executive Savings Plan	Master Trust	Duke Energy Corporation Master Retirement Trust
FASB	Financial Accounting Standards Board	McGuire	McGuire Nuclear Station
FERC	Federal Energy Regulatory Commission	Merger Agreement	The Agreement and Plan of Merger between Duke Energy and Piedmont
FES	FirstEnergy Solutions Corp.	MGP	Manufactured gas plant
Fitch	Fitch Ratings, Inc.	Midwest Generation Disposal Group	Duke Energy Ohio's nonregulated Midwest generation business and Duke Energy Retail Sales, LLC
FirstEnergy	FirstEnergy Corp.	MISO	Midcontinent Independent System Operator, Inc.
Florida OPC	Florida Office of Public Counsel	MMBtu	Million British Thermal Unit
Form S-3	Registration statement	MPP	Money Purchase Pension
FP&L	Florida Power & Light Company	Moody's	Moody's Investors Service, Inc.
FPSC	Florida Public Service Commission	MTBE	Methyl tertiary butyl ether
FTR	Financial transmission rights	MTEP	MISO Transmission Expansion Planning
Fluor	Fluor Enterprises, Inc.	MW	Megawatt
FV-NI	Fair value through net income	MVP	Multi Value Projects
GAAP	Generally Accepted Accounting Principles in the United States	MWh	Megawatt-hour
GAAP Reported Earnings	Net Income Attributable to Duke Energy Corporation	NAAQS	National Ambient Air Quality Standards
GAAP Reported EPS	Diluted EPS Attributable to Duke Energy Corporation common stockholders	NAV	Net asset value
GHG	Greenhouse Gas	NAW	North Allegheny Wind, LLC
GWh	Gigawatt-hours	NCDEQ	North Carolina Department of Environmental Quality (formerly the North Carolina Department of Environment and Natural Resources)
Hardy Storage	Hardy Storage Company, LLC	NCEMC	North Carolina Electric Membership Corporation
Harris	Shearon Harris Nuclear Plant	NCEMPA	North Carolina Eastern Municipal Power Agency
Hines	Hines Energy Complex	NCRS	Nuclear Power Plant Cost Recovery Statutes
I Squared	ISQ Enerlam Aggregator, L.P. and Enerlam (UK) Holding Ltd.	NCUC	North Carolina Utilities Commission
IBNR	Incurred but not yet reported	NDTF	Nuclear decommissioning trust funds
ICPA	Inter-Company Power Agreement	NEIL	Nuclear Electric Insurance Limited
IGCC	Integrated Gasification Combined Cycle	New Source Review	New Source Review (NSR) is a CAA program that requires industrial facilities to install modern pollution control equipment when they are built or when making a change that increases emissions significantly
IMR	Integrity Management Rider	NYSDEC	New York State Department of Environmental Conservation
International Disposal Group	Duke Energy's international business, excluding National Methanol Company	NMC	National Methanol Company
IRP	Integrated Resource Plans	NOL	Net operating loss
IRS	Internal Revenue Service		
ISFSI	Independent Spent Fuel Storage Installation		

Term or Acronym	Definition	Term or Acronym	Definition
NOV	Notice of violation	Robinson	Robinson Nuclear Plant
NO _x	Nitrogen oxide	RRBA	Roanoke River Basin Association
NPDES	National Pollutant Discharge Elimination System	RSU	Restricted Stock Unit
NPNS	Normal purchase/normal sale	RTO	Regional Transmission Organization
NPRM	Notice of Proposed Rulemaking	SAB	Staff Accounting Bulletin
NRC	U.S. Nuclear Regulatory Commission	Sabal Trail	Sabal Trail Transmission, LLC
NSR	New Source Review	Sabal Trail pipeline	Sabal Trail Natural Gas Pipeline
NWPA	Nuclear Waste Policy Act of 1982 (as amended)	SAFSTOR	A method of decommissioning in which a nuclear facility is placed and maintained in a condition that allows the facility to be safely stored and subsequently decontaminated to levels that permit release for unrestricted use
NYSE	New York Stock Exchange	SEC	Securities and Exchange Commission
Oconee	Oconee Nuclear Station	SEIS	Supplemental Environmental Impact Statement
OMB	Office of Management and Budget	SELC	Southern Environmental Law Center
OPEB	Other Post-Retirement Benefit Obligations	Segment Income	Income from continuing operations net of income attributable to noncontrolling interests
ORS	Office of Regulatory Staff	SO ₂	Sulfur dioxide
Osprey acquisition	Duke Energy Florida's purchase of a Calpine Corporation's 599-MW combined-cycle natural gas plant in Auburndale, Florida	SouthStar	SouthStar Energy Services, LLC
OTTI	Other-than-temporary impairment	Spectra Capital	Spectra Energy Capital, LLC
OVEC	Ohio Valley Electric Corporation	S&P	Standard & Poor's Rating Services
the Parent	Duke Energy Corporation holding company	S&P 500	Standard & Poor's 500 Stock Index
PCAOB	Public Company Accounting Oversight Board	SSO	Standard Service Offer
PGA	Purchased Gas Adjustments	State utility commissions	NCUC, PSCSC, FPSC, PUCO, IURC, KPSC and TPUC (Collectively)
Philadelphia Utility Index	Philadelphia Sector Index	State electric utility commissions	NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (Collectively)
PHMSA	Pipeline and Hazardous Materials Safety Administration	State gas utility commissions	NCUC, PSCSC, PUCO, TPUC and KPSC (Collectively)
Piedmont	Piedmont Natural Gas Company, Inc.	Subsidiary Registrants	Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
Piedmont Pension Assets	Qualified pension plan assets associated with the Retirement Plan of Piedmont	Sutton	L.V. Sutton Combined Cycle Plant
Piedmont Term Loan	Term loan facility with commitments totaling \$350M entered in June 2017	the Tax Act	Tax Cuts and Jobs Act
Pine Needle	Pine Needle LNG Company, LLC	TDSIC	Transmission, Distribution and Storage System Improvement Charge
Pioneer	Pioneer Transmission, LLC	Three Year Revolver	Duke Energy (Parent) \$1.0 billion revolving credit facility
PJM	PJM Interconnection, LLC	TPUC	Tennessee Public Utility Commission
PMPA	Piedmont Municipal Power Agency	TSCA	Toxic Substances Control Act
PPA	Purchase Power Agreement	TSR	Total shareholder return
Progress Energy	Progress Energy, Inc.	U.S.	United States
PSCSC	Public Service Commission of South Carolina	U.S. Court of Appeals	U.S. Court of Appeals for the Second Circuit
PTC	Production Tax Credits	VEBA	Voluntary Employees' Beneficiary Association
PUCO	Public Utilities Commission of Ohio	VIE	Variable Interest Entity
PUCO Order	Order issued by PUCO approving a settlement of Duke Energy Ohio's natural gas base rate case and authorizing the recovery of certain MGP costs	WACC	Weighted Average Cost of Capital
PURPA	Public Utility Regulatory Policies Act of 1978	Westinghouse	Westinghouse Electric Company
QF	Qualifying Facility	WNA	Weather normalization adjustment
RCRA	Resource Conservation and Recovery Act	W.S. Lee CC	William States Lee Combined Cycle Facility
REC	Renewable Energy Certificate	WVPA	Wabash Valley Power Association, Inc.
REC Solar	REC Solar Corp.		
Relative TSR	TSR of Duke Energy stock relative to a predefined peer group		

PART I

ITEM 1. BUSINESS

DUKE ENERGY

General

Duke Energy was incorporated on May 3, 2005, and is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Piedmont, a North Carolina corporation, is an energy services company whose principal business is the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are Piedmont's sales for resale customers. In October 2016, Duke Energy completed the acquisition of Piedmont. Piedmont's earnings and cash flows are only included in Duke Energy's consolidated results subsequent to the acquisition date. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding the acquisition.

In December 2016, Duke Energy completed an exit of the Latin American market to focus on its domestic regulated business, which was further bolstered by the acquisition of Piedmont. The sale of the International Energy business segment, excluding an equity method investment in NMC, was completed through two transactions including a sale of assets in Brazil to CTG and a sale of Duke Energy's remaining Latin American assets in Peru, Chile, Ecuador, Guatemala, El Salvador and Argentina to 1 Squared (collectively, the International Disposal Group). See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information on the sale of International Energy.

The Duke Energy Registrants electronically file reports with the SEC, including Annual Reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxy statements and amendments to such reports.

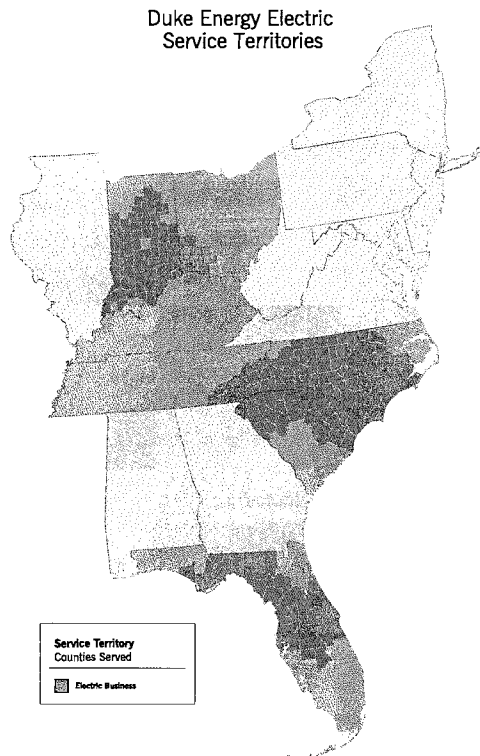
The SEC maintains an internet site that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC at sec.gov. Additionally, information about the Duke Energy Registrants, including reports filed with the SEC, is available through Duke Energy's website at duke-energy.com. Such reports are accessible at no charge and are made available as soon as reasonably practicable after such material is filed with or furnished to the SEC.

Business Segments

Duke Energy's segment structure includes three reportable business segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. Duke Energy's chief operating decision-maker routinely reviews financial information about each of these business segments in deciding how to allocate resources and evaluate the performance of the business. For additional information on each of these business segments, including financial and geographic information, see Note 3 to the Consolidated Financial Statements, "Business Segments." The following sections describe the business and operations of each of Duke Energy's business segments, as well as Other.

ELECTRIC UTILITIES AND INFRASTRUCTURE

Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio. Electric Utilities and Infrastructure provides retail electric service through the generation, transmission, distribution and sale of electricity to approximately 7.7 million customers within the Southeast and Midwest regions of the U.S. The service territory is approximately 95,000 square miles across six states with a total estimated population of 24 million people. The operations include electricity sold wholesale to municipalities, electric cooperative utilities and other load-serving entities. Electric Utilities and Infrastructure is also a joint owner in certain electric transmission projects. Electric Utilities and Infrastructure has a 50 percent ownership interest in DATC, a partnership with American Transmission Company, formed to design, build and operate transmission infrastructure. DATC owns 72 percent of the transmission service rights to Path 15, an 84-mile transmission line in central California. Electric Utilities and Infrastructure also has a 50 percent ownership interest in Pioneer Transmission, LLC, which builds, owns and operates electric transmission facilities in North America. The following map shows the service territory for Electric Utilities and Infrastructure as of December 31, 2018.



PART I

The electric operations and investments in projects are subject to the rules and regulations of the FERC, the NRC, the NCUC, the PSCSC, the FPSC, the IURC, the PUCO and the KPSC.

The following table represents the distribution of billed sales by customer class for the year ended December 31, 2018.

	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Residential	32%	27%	50%	37%	28%
General service	32%	23%	37%	38%	25%
Industrial	24%	15%	7%	23%	31%
Total retail sales	88%	65%	94%	98%	84%
Wholesale and other sales	12%	35%	6%	2%	16%
Total sales	100%	100%	100%	100%	100%

The number of residential and general service customers within the Electric Utilities and Infrastructure service territory is expected to increase over time. While economic conditions within the service territory remain strong, sales growth continues to be influenced by adoption of energy efficiencies and self-generation. Residential sales for 2018 compared to 2017 saw relatively strong growth despite the impact from increasing amounts of energy efficiency. However, the continued adoption of more efficient housing and appliances is expected to have a negative impact on average usage per residential customer over time.

Seasonality and the Impact of Weather

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions.

The estimated impact of weather on earnings is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling-degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating-degree day and each degree of temperature above the base temperature counts as one cooling-degree day.

Competition

Retail

Electric Utilities and Infrastructure's businesses operate as the sole supplier of electricity within their service territories, with the exception of Ohio, which has a competitive electricity supply market for generation service. Electric Utilities and Infrastructure owns and operates facilities necessary to transmit, distribute and generate electricity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable electricity at fair prices.

In Ohio, Electric Utilities and Infrastructure conducts competitive auctions for electricity supply. The cost of energy purchased through these auctions is recovered from retail customers. Electric Utilities and Infrastructure earns retail margin in Ohio on the transmission and distribution of electricity, but not on the cost of the underlying energy.

Competition in the regulated electric distribution business is primarily from the development and deployment of alternative energy sources including on-site generation from industrial customers and distributed generation, such as private solar, at residential, general service and/or industrial customer sites.

Wholesale

Duke Energy competes with other utilities and merchant generators for bulk power sales, sales to municipalities and cooperatives and wholesale transactions under primarily cost-based contracts approved by FERC. The principal factors in competing for these sales are availability of capacity and power, reliability of service and price. Prices are influenced primarily by market conditions and fuel costs.

Increased competition in the wholesale electric utility industry and the availability of transmission access could affect Electric Utilities and Infrastructure's load forecasts, plans for power supply and wholesale energy sales and related revenues. Wholesale energy sales will be impacted by the extent to which additional generation is available to sell to the wholesale market and the ability of Electric Utilities and Infrastructure to attract new customers and to retain existing customers.

Energy Capacity and Resources

Electric Utilities and Infrastructure owns approximately 50,880 MW of generation capacity. For additional information on owned generation facilities, see Item 2, "Properties."

Energy and capacity are also supplied through contracts with other generators and purchased on the open market. Factors that could cause Electric Utilities and Infrastructure to purchase power for its customers may include, but are not limited to, generating plant outages, extreme weather conditions, generation reliability, demand growth and price. Electric Utilities and Infrastructure has interconnections and arrangements with its neighboring utilities to facilitate planning, emergency assistance, sale and purchase of capacity and energy and reliability of power supply.

Electric Utilities and Infrastructure's generation portfolio is a balanced mix of energy resources having different operating characteristics and fuel sources designed to provide energy at the lowest possible cost to meet its obligation to serve retail customers. All options, including owned generation resources and purchased power opportunities, are continually evaluated on a real-time basis to select and dispatch the lowest-cost resources available to meet system load requirements.

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Sources of Electricity

Electric Utilities and Infrastructure relies principally on coal, nuclear fuel and natural gas for its generation of electricity. The following table lists sources of electricity and fuel costs for the three years ended December 31, 2018.

	Generation by Source			Cost of Delivered Fuel per Net Kilowatt-hour Generated (Cents)		
	2018	2017	2016	2018	2017	2016
Coal ^(a)	24.4%	27.4%	27.1%	2.82	2.72	3.07
Nuclear ^(a)	26.0%	27.8%	27.4%	0.50	0.69	0.66
Natural gas and oil ^(a)	26.2%	23.6%	22.9%	3.57	2.85	3.07
All fuels (cost-based on weighted average) ^(a)	76.6%	78.8%	77.4%	2.29	2.04	2.22
Hydroelectric and solar ^(b)	1.3%	0.7%	0.7%			
Total generation	77.9%	79.5%	78.1%			
Purchased power and net interchange	22.1%	20.5%	21.9%			
Total sources of energy	100.0%	100.0%	100.0%			

(a) Statistics related to all fuels reflect Electric Utilities and Infrastructure's ownership interest in jointly owned generation facilities.

(b) Generating figures are net of output required to replenish pumped storage facilities during off-peak periods.

Coal

Electric Utilities and Infrastructure meets its coal demand through a portfolio of long-term purchase contracts and short-term spot market purchase agreements. Large amounts of coal are purchased under long-term contracts with mining operators who mine both underground and at the surface. Electric Utilities and Infrastructure uses spot market purchases to meet coal requirements not met by long-term contracts. Expiration dates for its long-term contracts, which have various price adjustment provisions and market reopeners, range from 2019 to 2021 for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Ohio, 2019 to 2020 for Duke Energy Florida and 2019 to 2025 for Duke Energy Indiana. Electric Utilities and Infrastructure expects to renew these contracts or enter into similar contracts with other suppliers as existing contracts expire, though prices will fluctuate over time as coal markets change. Electric Utilities and Infrastructure has an adequate supply of coal under contract to meet its hedging guidelines regarding projected future consumption. As a result of volatility in natural gas prices and the associated impacts on coal-fired dispatch within the generation fleet, coal inventories will continue to fluctuate. Electric Utilities and Infrastructure continues to actively manage its portfolio and has worked with suppliers to obtain increased flexibility in its coal contracts.

Coal purchased for the Carolinas is primarily produced from mines in Central Appalachia, Northern Appalachia and the Illinois Basin. Coal purchased for Florida is primarily produced from mines in Colorado and the Illinois Basin. Coal purchased for Kentucky is produced from mines along the Ohio River in Illinois, Ohio, West Virginia and Pennsylvania. Coal purchased for Indiana is primarily produced in Indiana and Illinois. The current average sulfur content of coal purchased by Electric Utilities and Infrastructure is between 1.5 percent and 2 percent for Duke Energy Carolinas and Duke Energy Progress, between 1 percent and 3 percent for Duke Energy Florida, between 3 percent and 3.5 percent for Duke Energy Ohio and between 2.5 percent and 3 percent for Duke Energy Indiana. Electric Utilities and Infrastructure's environmental controls, in combination with the use of SO₂ emission allowances, enable Electric Utilities and Infrastructure to satisfy current SO₂ emission limitations for its existing facilities.

Nuclear

The industrial processes for producing nuclear generating fuel generally involve the mining and milling of uranium ore to produce uranium concentrates and services to convert, enrich and fabricate fuel assemblies.

Electric Utilities and Infrastructure has contracted for uranium materials and services to fuel its nuclear reactors. Uranium concentrates, conversion services and enrichment services are primarily met through a diversified

portfolio of long-term supply contracts. The contracts are diversified by supplier, country of origin and pricing. Electric Utilities and Infrastructure staggers its contracting so that its portfolio of long-term contracts covers the majority of its fuel requirements in the near term and decreasing portions of its fuel requirements over time thereafter. Near-term requirements not met by long-term supply contracts have been and are expected to be fulfilled with spot market purchases. Due to the technical complexities of changing suppliers of fuel fabrication services, Electric Utilities and Infrastructure generally sources these services to a single domestic supplier on a plant-by-plant basis using multiyear contracts.

Electric Utilities and Infrastructure has entered into fuel contracts that cover 100 percent of its uranium concentrates, conversion services and enrichment services requirements through at least 2019 and cover fabrication services requirements for these plants through at least 2027. For future requirements not already covered under long-term contracts, Electric Utilities and Infrastructure believes it will be able to renew contracts as they expire or enter into similar contractual arrangements with other suppliers of nuclear fuel materials and services.

Natural Gas and Fuel Oil

Natural gas and fuel oil supply, transportation and storage for Electric Utilities and Infrastructure's generation fleet is purchased under standard industry agreements from various suppliers, including Piedmont. Natural gas supply agreements typically provide for a percentage of forecasted burns being procured over time, with varied expiration dates. Electric Utilities and Infrastructure believes it has access to an adequate supply of natural gas and fuel oil for the reasonably foreseeable future.

Electric Utilities and Infrastructure has certain dual-fuel generating facilities that can operate utilizing both natural gas and fuel oil. The cost of Electric Utilities and Infrastructure's natural gas and fuel oil is fixed price or determined by published market prices as reported in certain industry publications, plus any transportation and freight costs. Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana use derivative instruments to manage a portion of their exposure to price fluctuations for natural gas. For Duke Energy Florida, there is currently an agreed to moratorium on future hedging with the FPSC.

Electric Utilities and Infrastructure has firm interstate and intrastate natural gas transportation agreements and storage agreements in place to support generation needed for load requirements. Electric Utilities and Infrastructure may purchase additional shorter-term natural gas transportation and utilize natural gas interruptible transportation agreements to support generation needed for load requirements. The Electric Utilities and Infrastructure natural gas plants are served by various supply zones and multiple pipelines.

PART I

Purchased Power

Electric Utilities and Infrastructure purchases a portion of its capacity and system requirements through purchase obligations, leases and purchase

capacity contracts. Electric Utilities and Infrastructure believes it can obtain adequate purchased power capacity to meet future system load needs. However, during periods of high demand, the price and availability of purchased power may be significantly affected.

The following table summarizes purchased power for the previous three years:

	2018	2017	2016
Purchase obligations and leases (in millions of MWh) ^(a)	21.3	17.7	18.0
Purchase capacity under contract (in MW) ^(b)	4,025	4,028	4,588

- (a) Represents approximately 7 percent of total system requirements for 2018, 2017 and 2016.
(b) These agreements include approximately 412 MW of firm capacity under contract by Duke Energy Florida with QFs.

Inventory

Electric Utilities and Infrastructure must maintain an adequate stock of fuel and materials and supplies in order to ensure continuous operation of generating facilities and reliable delivery to customers. As of December 31, 2018, the inventory balance for Electric Utilities and Infrastructure was approximately \$2.9 billion. For additional information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Additionally, the RCRA required closure timing depends upon meeting or continuing to meet certain criteria.

The Coal Ash Act leaves the decision on cost recovery determinations related to closure of coal ash surface impoundments to the normal ratemaking processes before utility regulatory commissions. Duke Energy Carolinas and Duke Energy Progress have included compliance costs associated with the EPA CCR rule and the Coal Ash Act in their respective rate case filings. During 2017, Duke Energy Carolinas' and Duke Energy Progress' wholesale contracts were amended to include the recovery of expenditures related to asset retirement obligations for the closure of coal ash basins. The amended contracts have retail disallowance parity or provisions limiting challenges to CCR cost recovery actions at FERC. FERC approved the amended wholesale rate schedules in 2017. For additional information on the ash basins and recovery, see Item 7, "Other Matters" and Notes 4, 5 and 9 to the Consolidated Financial Statements, "Regulatory Matters," "Commitments and Contingencies" and "Asset Retirement Obligations," respectively.

Ash Basin Management

During 2015, EPA regulations were enacted related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the RCRA and apply to electric generating sites with new and existing landfills, new and existing surface impoundments, structural fills and CCR piles, and establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments (ash basins or impoundments) will continue to be independently regulated by existing state laws, regulations and permits, including the Coal Ash Act in North Carolina.

Nuclear Matters

Duke Energy owns, wholly or partially, 11 operating nuclear reactors located at six operating stations. The Crystal River Unit 3 permanently ceased operation in February 2013. Nuclear insurance includes: nuclear liability coverage; property damage coverage; nuclear accident decontamination and premature decommissioning coverage; and accidental outage coverage for losses in the event of a major accidental outage. Joint owners reimburse Duke Energy for certain expenses associated with nuclear insurance in accordance with joint owner agreements. The Price-Anderson Act requires plant owners to provide for public nuclear liability claims resulting from nuclear incidents to the maximum total financial protection liability, which is approximately \$14.1 billion. For additional information on nuclear insurance see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies."

Electric Utilities and Infrastructure has and will periodically submit to applicable authorities required site-specific coal ash impoundment remediation or closure plans. These plans and all associated permits must be approved before any work can begin. Closure activities began in 2015 at the four sites specified as high priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. At other sites, preliminary planning and closure methods have been studied and factored into the estimated retirement and management costs. The Coal Ash Act requires CCR surface impoundments in North Carolina to be closed, with the closure method and timing based on a risk ranking classification determined by legislation or state regulators.

Duke Energy has a significant future financial commitment to dispose of spent nuclear fuel and decommission and decontaminate each plant safely. The NCUC, PSCSC and FPSC require Duke Energy to update their cost estimates for decommissioning their nuclear plants every five years.

The following table summarizes the fair value of NDTF balances and the most recent site-specific nuclear decommissioning cost study results for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida. Decommissioning costs are stated in 2018 dollars for Duke Energy Carolinas, 2017 dollars for Duke Energy Florida and 2014 dollars for Duke Energy Progress, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	NDTF ^(a)		Decommissioning Costs ^(c)	Year of Cost Study
	December 31, 2018	December 31, 2017		
Duke Energy	\$ 6,720	\$ 7,097	\$ 8,737	2014 and 2018
Duke Energy Carolinas ^{(b)(c)}	3,558	3,772	4,291	2018
Duke Energy Progress	2,503	2,588	3,550	2014
Duke Energy Florida ^(d)	659	736	896	2018

- (a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.
(b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.
(c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 is expected to be filed with the NCUC and PSCSC by the second quarter 2019. Duke Energy Carolinas will also complete a new funding study, which will be completed and filed with the NCUC and PSCSC in 2019.
(d) Duke Energy Florida's site-specific nuclear decommissioning cost study and a new funding study were completed and filed with the FPSC in 2018. For the years ended December 31, 2017 and December 31, 2018, Duke Energy Florida received reimbursements from the NDTF for costs related to ongoing decommissioning activity of Crystal River Unit 3.

PART I

The NCUC, PSCSC, FPSC and FERC have allowed Electric Utilities and Infrastructure to recover estimated decommissioning costs through retail and wholesale rates over the expected remaining service periods of their nuclear stations. Electric Utilities and Infrastructure believes the decommissioning costs being recovered through rates, when coupled with the existing fund balances and expected fund earnings, will be sufficient to provide for the cost of future decommissioning. For additional information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

The NWPA provides the framework for development by the federal government of interim storage and permanent disposal facilities for high-level radioactive waste materials. The government has not yet developed a storage facility or disposal capacity, so Electric Utilities and Infrastructure will continue to store spent fuel on its reactor sites.

Under federal law, the DOE is responsible for the selection and construction of a facility for the permanent disposal of spent nuclear fuel and high-level radioactive waste. The DOE terminated the project to license and develop a geologic repository at Yucca Mountain, Nevada in 2010, and is currently taking no action to fulfill its responsibilities to dispose of spent fuel.

Until the DOE begins to accept the spent nuclear fuel, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida will continue to safely manage their spent nuclear fuel. Under current regulatory guidelines, Harris has sufficient storage capacity in its spent fuel pools through the expiration of its renewed operating license. Crystal River Unit 3 ceased operation in 2013 and was placed in a SAFSTOR condition in January 2018. As of January 2018, all spent fuel at Crystal River Unit 3 has been transferred from the spent fuel pool to dry storage at an on-site ISFSI. With certain modifications and approvals by the NRC to expand the on-site dry cask storage facilities, spent nuclear fuel dry storage facilities will be sufficient to provide storage space of spent fuel through the expiration of the operating licenses, including any license renewals, for Brunswick, Catawba, McGuire, Oconee and Robinson.

The nuclear power industry faces uncertainties with respect to the cost and long-term availability of disposal sites for spent nuclear fuel and other radioactive waste, compliance with changing regulatory requirements, capital outlays for modifications and new plant construction.

Electric Utilities and Infrastructure is subject to the jurisdiction of the NRC for the design, construction and operation of its nuclear generating facilities. The following table includes the current year of expiration of nuclear operating licenses for nuclear stations in operation. Nuclear operating licenses are potentially subject to extension.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. For additional information on nuclear decommissioning activity, see Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

On October 27, 2016, and December 15, 2016, the NRC issued combined operating licenses for Levy and Lee Nuclear Station, respectively. On August 29, 2017, Duke Energy announced the complete abandonment of the Levy project; the operating license was formally terminated on April 26, 2018. On August 25, 2017, as part of Duke Energy Carolinas rate case filing, Duke Energy Carolinas requested NCUC approval to cancel the development of the Lee Nuclear Station project with the intent to maintain the combined operating licenses. For additional information on the Lee Nuclear Station, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Regulation

State

The NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (collectively, the state electric utility commissions) approve rates for Duke Energy's retail electric service within their respective states. The state electric utility commissions, to varying degrees, have authority over the construction and operation of Electric Utilities and Infrastructure's generating facilities. CPCN issued by the state electric utility commissions, as applicable, authorize Electric Utilities and Infrastructure to construct and operate its electric facilities and to sell electricity to retail and wholesale customers. Prior approval from the relevant state electric utility commission is required for the entities within Electric Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus earn a reasonable rate of return on its invested capital, including equity.

In addition to rates approved in base rate cases, each of the state electric utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over or under-recovered costs, are prudent.

Fuel, fuel-related costs and certain purchased power costs are eligible for recovery by Electric Utilities and Infrastructure. Electric Utilities and Infrastructure uses coal, hydroelectric, natural gas, oil, renewable generation and nuclear fuel to generate electricity, thereby maintaining a diverse fuel mix that helps mitigate the impact of cost increases in any one fuel. Due to the associated regulatory treatment and the method allowed for recovery, changes in fuel costs from year to year have no material impact on operating results of Electric Utilities and Infrastructure, unless a commission finds a portion of such costs to have been imprudent. However, delays between the expenditure for fuel costs and recovery from customers can adversely impact the timing of cash flows of Electric Utilities and Infrastructure.

PART I

The table below reflects significant electric rate case applications approved and effective in the past three years or applications currently pending approval.

	Regulatory Body	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:					
Duke Energy Carolinas 2017 North Carolina Rate Case	NCUC	\$ (73)	9.9%	52%	8/1/2018
Duke Energy Progress 2017 North Carolina Rate Case	NCUC	151	9.9%	52%	3/16/2018
Duke Energy Ohio 2017 Ohio Electric Rate Case	PUCO	(19)	9.84%	50.75%	1/2/2019
Duke Energy Kentucky 2017 Kentucky Electric Rate Case	KPSC	8	9.725%	49%	5/1/2018
Duke Energy Progress 2016 South Carolina Rate Case	PSCSC	(a)	10.1%	53%	1/1/2017
Pending Rate Cases:					
Duke Energy Carolinas 2018 South Carolina Rate Case	PSCSC	\$ 168	10.5%	53%	6/1/2019
Duke Energy Progress 2018 South Carolina Rate Case	PSCSC	59	10.5%	53%	6/1/2019

(a) An increase of approximately \$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$19 million in revenues was effective January 1, 2018.

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

The FERC approves Electric Utilities and Infrastructure's cost-based rates for electric sales to certain power and transmission wholesale customers. Regulations of FERC and the state electric utility commissions govern access to regulated electric and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Electric Utilities and Infrastructure.

Regional Transmission Organizations (RTO). PJM and MISO are the ISOs and FERC-approved RTOs for the regions in which Duke Energy Ohio and Duke Energy Indiana operate. PJM and MISO operate energy, capacity and other markets, and control the day-to-day operations of bulk power systems through central dispatch.

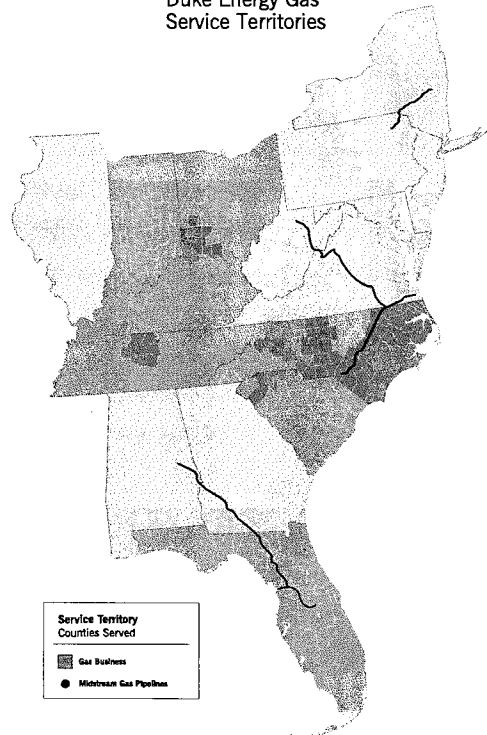
Duke Energy Ohio is a member of PJM and Duke Energy Indiana is a member of MISO. Transmission owners in these RTOs have turned over control of their transmission facilities and their transmission systems are currently under the dispatch control of the RTOs. Transmission service is provided on a nationwide, open-access basis using the transmission facilities of the RTO members at rates based on the costs of transmission service.

Environmental. Electric Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this section. See the "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure conducts natural gas operations primarily through the regulated public utilities of Piedmont and Duke Energy Ohio. The natural gas operations are subject to the rules and regulations of the NCUC, PSCSC, PUCO, KPSC, TPUC, PHMSA and the FERC. Gas Utilities and Infrastructure serves residential, commercial, industrial and power generation natural gas customers, including customers served by municipalities who are wholesale customers. Gas Utilities and Infrastructure has over 1.6 million customers, including more than 1.1 million customers located in North Carolina, South Carolina and Tennessee, and an additional 531,000 customers located within southwestern Ohio and northern Kentucky. In the Carolinas, Ohio and Kentucky, the service areas are comprised of numerous cities, towns and communities. In Tennessee, the service area is the metropolitan area of Nashville. The following map shows the service territory and investments in operating and proposed midstream properties for Gas Utilities and Infrastructure as of December 31, 2018.

Duke Energy Gas Service Territories



The number of residential, commercial and industrial customers within the Gas Utilities and Infrastructure service territory is expected to increase over time. Average usage per residential customer is expected to remain flat or decline for the foreseeable future, however decoupled rates in North Carolina and various rate design mechanisms in other jurisdictions partially mitigate the impact of the declining usage per customer on overall profitability. While total industrial and general service sales increased in 2018 when compared to 2017, the growth rate was modest when compared to historical periods.

Gas Utilities and Infrastructure also owns, operates and has investments in various pipeline transmission and natural gas storage facilities.

PART I

Natural Gas for Retail Distribution

Gas Utilities and Infrastructure is responsible for the distribution of natural gas to retail customers in its North Carolina, South Carolina, Tennessee, Ohio and Kentucky service territories. Gas Utilities and Infrastructure's natural gas procurement strategy is to contract primarily with major and independent producers and marketers for natural gas supply. It also purchases a diverse portfolio of transportation and storage service from interstate pipelines. This strategy allows Gas Utilities and Infrastructure to assure reliable natural gas supply and transportation for its firm customers during peak winter conditions. When firm pipeline services or contracted natural gas supplies are temporarily not needed due to market demand fluctuations, Gas Utilities and Infrastructure may release these services and supplies in the secondary market under FERC-approved capacity release provisions or make wholesale secondary market sales. In 2018, firm supply purchase commitment agreements provided 100 percent of the natural gas supply for both Piedmont and Duke Energy Ohio.

Impact of Weather

Gas Utilities and Infrastructure revenues are generally protected from the impact of weather fluctuations due to the regulatory mechanisms that are available in most service territories. In North Carolina, margin decoupling provides protection from both weather and other usage variations like conservation for residential and commercial customer classes. Margin decoupling provides a set revenue per customer independent of actual usage. In South Carolina and Tennessee, weather normalization adjusts revenues either up or down depending on how much warmer or colder than normal a given month has been. Weather normalization adjustments occur from November through March in South Carolina and from October through April in Tennessee. Ohio collects most of its non-fuel revenue through a fixed monthly charge that is not impacted by usage fluctuations that result from weather changes or conservation. Kentucky, however, bills based on volumetric rates without weather protection.

Competition

Gas Utilities and Infrastructure's businesses operate as the sole provider of natural gas service within their retail service territories. Gas Utilities and Infrastructure owns and operates facilities necessary to transport and distribute natural gas. Gas Utilities and Infrastructure earns retail margin on the transmission and distribution of natural gas and not on the cost of the underlying commodity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable natural gas service at fair prices.

In residential, commercial and industrial customer markets, natural gas distribution operations compete with other companies that supply energy, primarily electric companies, propane and fuel oil dealers, renewable energy providers and coal companies in relation to sources of energy for electric power plants, as well as nuclear energy. A significant competitive factor is price. Gas Utilities and Infrastructure's primary product competition is with electricity for heating, water heating and cooking. Increases in the price of natural gas or decreases in the price of other energy sources could negatively impact competitive position by decreasing the price benefits of natural gas to the consumer. In the case of industrial customers, such as manufacturing plants, adverse economic or market conditions, including higher natural gas costs, could cause these customers to suspend business operations or to use alternative sources of energy in favor of energy sources with lower per-unit costs.

Higher natural gas costs or decreases in the price of other energy sources may allow competition from alternative energy sources for applications that have traditionally used natural gas, encouraging some customers to move away from natural gas-fired equipment to equipment fueled by other energy sources. Competition between natural gas and other forms of energy is also based on efficiency, performance, reliability, safety and other non-price factors. Technological improvements in other energy sources and events that impair

the public perception of the non-price attributes of natural gas could erode our competitive advantage. These factors in turn could decrease the demand for natural gas, impair our ability to attract new customers and cause existing customers to switch to other forms of energy or to bypass our systems in favor of alternative competitive sources. This could result in slow or no customer growth and could cause customers to reduce or cease using our product, thereby reducing our ability to make capital expenditures and otherwise grow our business, adversely affecting our earnings.

Pipeline and Storage Investments

Duke Energy, through its Gas Utilities and Infrastructure segment, is a 47 percent equity member of ACP, which plans to build and own the proposed ACP pipeline, an approximately 600-mile interstate natural gas pipeline, regulated by FERC. The ACP pipeline is intended to transport diverse natural gas supplies into southeastern markets. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the ACP pipeline. ACP expects to achieve a late 2020 in-service date for key segments of the project, while it expects a remainder to extend into 2021. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications in the future. ACP and Duke Energy will continue to consider their options with respect to the foregoing in light of their existing contractual and legal obligations.

Gas Utilities and Infrastructure also has a 7.5 percent equity ownership interest in Sabal Trail. Sabal Trail is a joint venture that owns the Sabal Trail pipeline to transport natural gas to Florida, regulated by FERC. The Sabal Trail phase one mainline was placed into service in July 2017 and traverses Alabama, Georgia and Florida. The remaining lateral line to the Duke Energy Florida's Citrus County CC was placed into service in March 2018.

Gas Utilities and Infrastructure has a 24 percent equity ownership interest in Constitution, an interstate pipeline development company formed to develop, construct, own and operate a 124-mile natural gas pipeline and related facilities, regulated by FERC. Constitution is slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. As a result of permitting delays and project uncertainty, Constitution is unable to approximate an in-service date.

Duke Energy, through its Gas Utilities and Infrastructure segment, has a 21.49 percent equity ownership interest in Cardinal, an intrastate pipeline located in North Carolina regulated by the NCUK, a 45 percent equity ownership in Pine Needle, an interstate liquefied natural gas storage facility located in North Carolina and a 50 percent equity ownership interest in Hardy Storage, an underground interstate natural gas storage facility located in Hardy and Hampshire counties in West Virginia. Pine Needle and Hardy Storage are regulated by FERC.

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

See Notes 4, 12 and 17 to the Consolidated Financial Statements, "Regulatory Matters," "Investments in Unconsolidated Affiliates" and "Variable Interest Entities," respectively, for further information on Duke Energy's pipeline investments.

Inventory

Gas Utilities and Infrastructure must maintain adequate natural gas inventory in order to provide reliable delivery to customers. As of December 31, 2018, the inventory balance for Gas Utilities and Infrastructure was \$105 million. For more information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

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Regulation

State

The NCUC, PSCSC, PUCO, TPUC and KPSC (collectively, the state gas utility commissions) approve rates for Duke Energy's retail natural gas service within their respective states. The state gas utility commissions, to varying degrees, have authority over the construction and operation of Gas Utilities and Infrastructure's natural gas distribution facilities. CPCN or Certificates of Environmental Compatibility and Public Necessity issued by the state gas utility commissions or other government agencies, as applicable, authorize Gas Utilities and Infrastructure to construct and operate its natural gas distribution facilities and to sell natural gas to retail and wholesale customers. Prior approval from the relevant state gas utility commission is required for Gas Utilities and Infrastructure to issue securities. The underlying concept of utility

ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus a reasonable rate of return on its invested capital, including equity.

In addition to amounts collected from customers through approved base rates, each of the state gas utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over- or under-recovered costs, are prudent.

Natural gas costs are eligible for recovery by Gas Utilities and Infrastructure. Due to the associated regulatory treatment and the method allowed for recovery, changes in natural gas costs from year to year have no material impact on operating results of Gas Utilities and Infrastructure, unless a commission finds a portion of such costs to have not been prudent. However, delays between the expenditure for natural gas and recovery from customers can adversely impact the timing of cash flows of Gas Utilities and Infrastructure.

The following table summarizes certain components underlying recently approved and effective base rates or rate stabilization filings in the last three years.

	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:				
Piedmont 2016 South Carolina Rate Stabilization Adjustment Filing	\$ 8	10.2%	53.0%	November 2016
Piedmont 2017 South Carolina Rate Stabilization Adjustment Filing	6	10.2%	53.0%	November 2017
Piedmont 2018 South Carolina Rate Stabilization Adjustment Filing	(14)	10.2%	53.0%	November 2018
Pending Rate Cases:				
Duke Energy Kentucky 2018 Kentucky Gas Rate Case	\$ 11	9.9%	50.755%	April 2019

Gas Utilities and Infrastructure has IMR mechanisms in North Carolina and Tennessee designed to separately track and recover certain costs associated with capital investments incurred to comply with federal pipeline safety and integrity programs, as well as additional state safety and integrity requirements in Tennessee. The following table summarizes information related to recently approved or pending IMR filings.

(in millions)	Cumulative Investment	Annual Margin Revenues	Effective Date
Piedmont 2018 IMR Filing – North Carolina	\$ 924	\$ 81	December 2018
			Proposed Effective Date
Piedmont 2018 IMR Filing – Tennessee	\$ 259	\$ 26	January 2019

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

Federal

Gas Utilities and Infrastructure is subject to various federal regulations, including regulations that are particular to the natural gas industry. These federal regulations include but are not limited to the following:

Regulations of FERC and the state gas utility commissions govern access to regulated natural gas and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Gas Utilities and Infrastructure.

- Regulations of the FERC affect the certification and siting of new interstate natural gas pipeline projects, the purchase and sale of, the prices paid for, and the terms and conditions of service for the interstate transportation and storage of natural gas.
- Regulations of the PHMSA affect the design, construction, operation, maintenance, integrity, safety and security of natural gas distribution and transmission systems.
- Regulations of the EPA relate to the environment including proposed air emissions regulations that would expand to include emissions of methane. For a discussion of environmental regulation, see "Environmental Matters" in this section. Refer to the "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA

Environmental. Gas Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this section. See "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

COMMERCIAL RENEWABLES

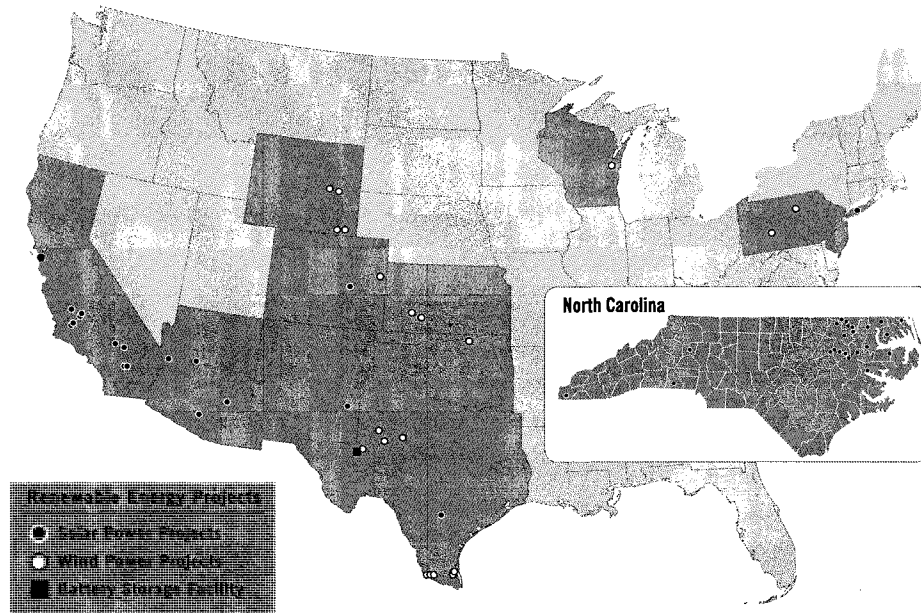
Commercial Renewables primarily acquires, develops, builds, operates and owns wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage businesses.

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Commercial Renewables' renewable energy includes utility-scale wind and solar generation assets, distributed solar generation assets and a battery storage project, which total 2,991 MW across 19 states from 21 wind facilities, 100 solar facilities and one battery storage facility. Revenues are primarily generated by selling the power produced from renewable generation through long-term contracts to utilities, electric cooperatives, municipalities and

commercial and industrial customers. In most instances, these customers have obligations under state-mandated renewable energy portfolio standards or similar state or local renewable energy goals. Energy and renewable energy credits generated by wind and solar projects are generally sold at contractual prices. The following map shows the service territory for Commercial Renewables as of December 31, 2018.

Commercial Renewables Portfolio



As eligible wind and solar projects are placed in service, Commercial Renewables recognizes either PTCs as power is generated by wind projects over 10 years or ITCs when the renewable solar or wind project achieves commercial availability. ITCs are recognized over the useful life of the asset as a reduction to depreciation expense with the benefit of the tax basis adjustment due to the ITC being recognized in income in the year of commercial availability. The ITC is being phased down from the current 30 percent rate to a permanent 10 percent rate if construction begins in 2019 through 2022. The PTC is being phased out and wind turbines will earn 10 years of PTCs at phased-out rates if construction begins in 2017 through 2019.

As part of its growth strategy, Commercial Renewables has expanded its investment portfolio through the addition of distributed solar companies and projects, energy storage systems and energy management solutions specifically tailored to commercial businesses. These investments include REC Solar Corp., a California-based provider of solar installations for retail, manufacturing, agriculture, technology, government and nonprofit customers across the U.S. and Phoenix Energy Technologies Inc., a California-based provider of enterprise energy management and information software to commercial businesses.

Commercial Renewables has entered into agreements for certain of its solar generating assets that are held by LLCs whose members include a noncontrolling tax equity investor. The allocation of earnings, tax attributes and cash distributions to the tax equity investor are based on certain of the

liquidation provisions pursuant to the LLC agreements. The allocations to the tax equity investors can result in variability in earnings to Duke Energy. As part of its growth strategy, Commercial Renewables expects to enter into these arrangements for future wind and solar generating assets.

For additional information on Commercial Renewables' generation facilities, see Item 2, "Properties."

Market Environment and Competition

Commercial Renewables primarily competes for wholesale contracts for the generation and sale of electricity from wind and solar generation assets it either develops or acquires and owns. The market price of commodities and services, along with the quality and reliability of services provided, drive competition in the wholesale energy business. The number and type of competitors may vary based on location, generation type and project size. Commercial Renewables' main competitors include other nonregulated generators and wholesale power providers.

Sources of Electricity

Commercial Renewables relies on wind, solar and battery resources for its generation of electric energy.

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Regulation

Commercial Renewables is subject to regulation at the federal level, primarily from the FERC. Regulations of the FERC govern access to regulated market information by nonregulated entities and services provided between regulated and nonregulated utilities.

OTHER

The remainder of Duke Energy's operations is presented as Other. While it is not a business segment, Other primarily includes interest expense on holding company debt, unallocated corporate costs including costs to achieve strategic acquisitions, amounts related to certain companywide initiatives and contributions made to the Duke Energy Foundation. Other also includes Bison and an investment in NMC.

The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Bison, a wholly owned subsidiary of Duke Energy, is a captive insurance company with the principal activity of providing Duke Energy subsidiaries with

indemnification for financial losses primarily related to property, workers' compensation and general liability.

Duke Energy owns a 17.5 percent equity interest in NMC. The joint venture company has production facilities in Jubail, Saudi Arabia where it manufactures certain petrochemicals and plastics. The company annually produces approximately 1 million metric tons each of MTBE and methanol and has the capacity to produce 50,000 metric tons of polyacetal. The main feedstocks to produce these products are natural gas and butane. Duke Energy records the investment activity of NMC using the equity method of accounting and retains 25 percent of NMC's board of directors representation and voting rights.

Employees

On December 31, 2018, Duke Energy had a total of 30,083 employees on its payroll. The total includes 5,446 employees who are represented by labor unions under various collective bargaining agreements that generally cover wages, benefits, working practices, and other terms and conditions of employment.

Executive Officers of the Registrants

The following table sets forth the individuals who currently serve as executive officers. Executive officers serve until their successors are duly elected or appointed.

Name	Age ^(a)	Current and Recent Positions Held
Lynn J. Good	59	Chairman, President and Chief Executive Officer. Ms. Good was elected as Chairman of the Board, effective January 1, 2016, and assumed her position as President and Chief Executive Officer in July 2013. Prior to that, she served as Executive Vice President and Chief Financial Officer since 2009.
Steven K. Young	60	Executive Vice President and Chief Financial Officer. Mr. Young assumed his current position in August 2013. Prior to that, he served as Vice President, Chief Accounting Officer and Controller, assuming the role of Chief Accounting Officer in July 2012 and the role of Controller in December 2006.
Douglas F. Esamann	61	Executive Vice President, Energy Solutions and President, Midwest and Florida Regions. Mr. Esamann assumed his current position in September 2016 and was Executive Vice President and President, Midwest and Florida Regions since June 2015. Prior to that, he served as President, Duke Energy Indiana since November 2010.
Lloyd M. Yates	58	Executive Vice President, Customer and Delivery Operations and President, Carolinas Region. Mr. Yates assumed his current position in September 2016 and was Executive Vice President, Market Solutions and President, Carolinas Region since August 2014. He held the position of Executive Vice President, Regulated Utilities from November 2012 to August 2014, and prior to that, served as Executive Vice President, Customer Operations since July 2012, upon the merger of Duke Energy and Progress Energy.
Dhiaa M. Jamil	62	Executive Vice President and Chief Operating Officer. Mr. Jamil assumed the role of Chief Operating Officer in May 2016. Prior to his current position, he held the title Executive Vice President and President, Regulated Generation and Transmission since June 2015. Prior to that, he served as Executive Vice President and President, Regulated Generation since August 2014. He served as Executive Vice President and President of Duke Energy Nuclear from March 2013 to August 2014, and was Chief Nuclear Officer from February 2008 to February 2013.
Franklin H. Yoho	59	Executive Vice President and President, Natural Gas Business. Mr. Yoho assumed his current position in October 2016 upon the acquisition of Piedmont by Duke Energy. Prior to this appointment, he served as Senior Vice President and Chief Commercial Officer of Piedmont since August 2011.
Julia S. Janson	54	Executive Vice President, External Affairs and Chief Legal Officer. Ms. Janson has held the position of Executive Vice President, External Affairs and Chief Legal Officer since November 2018. She originally assumed the position of Executive Vice President, Chief Legal Officer and Corporate Secretary in December 2012, and then assumed the responsibilities for External Affairs in February 2016.
Melissa H. Anderson	54	Executive Vice President, Administration and Chief Human Resources Officer. Ms. Anderson assumed her position in May 2016 and had been Executive Vice President and Chief Human Resources Officer since January 2015. Prior to joining Duke Energy, she served as Senior Vice President of Human Resources at Domtar Inc. since 2010.
Dwight L. Jacobs	53	Senior Vice President, Chief Accounting Officer, Tax and Controller. Mr. Jacobs has served as Senior Vice President, Chief Accounting Officer, Tax and Controller since January 1, 2019. Prior to that, he served as Senior Vice President, Chief Accounting Officer and Controller since June 1, 2018. Prior to that, he served as Senior Vice President, Financial Planning & Analysis since February 2016 and as Chief Risk Officer since July 2014. Prior to his role as Chief Risk Officer, Mr. Jacobs served as Vice President, Rates & Regulatory Strategy since May 2010.

(a) The ages of the officers provided are as of December 31, 2018.

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There are no family relationships between any of the executive officers, nor any arrangement or understanding between any executive officer and any other person involved in officer selection.

Environmental Matters

The Duke Energy Registrants are subject to federal, state and local laws and regulations with regard to air and water quality, hazardous and solid waste disposal and other environmental matters. Environmental laws and regulations affecting the Duke Energy Registrants include, but are not limited to:

- The CAA, as well as state laws and regulations impacting air emissions, including State Implementation Plans related to existing and new national ambient air quality standards for ozone and particulate matter. Owners and/or operators of air emission sources are responsible for obtaining permits and for annual compliance and reporting.
- The CWA, which requires permits for facilities that discharge wastewaters into navigable waters.
- The Comprehensive Environmental Response, Compensation and Liability Act, which can require any individual or entity that currently owns or in the past owned or operated a disposal site, as well as transporters or generators of hazardous substances sent to a disposal site, to share in remediation costs.
- The National Environmental Policy Act, which requires federal agencies to consider potential environmental impacts in their permitting and licensing decisions, including siting approvals.
- Coal Ash Act, as amended, which establishes requirements regarding the use and closure of existing ash basins, the disposal of ash at active coal plants and the handling of surface water and groundwater impacts from ash basins in North Carolina.
- The Solid Waste Disposal Act, as amended by the RCRA, which creates a framework for the proper management of hazardous and nonhazardous solid waste; classifies CCR as nonhazardous waste; and establishes standards for landfill and surface impoundment placement, design, operation and closure, groundwater monitoring, corrective action, and post-closure care.
- The TSCA, which gives EPA the authority to require reporting, recordkeeping and testing requirements, and to place restrictions relating to chemical substances and/or mixtures, including polychlorinated biphenyls.
- The proposed ACE rule, which will require states to develop CO₂ reduction plans based on efficiency (heat rate) improvements at coal-fired power plants.

For more information on environmental matters, see Notes 5 and 9 to the Consolidated Financial Statements, "Commitments and Contingencies – Environmental" and "Asset Retirement Obligations," respectively, and the "Other Matters" section of Management's Discussion and Analysis. Except as otherwise described in these sections, costs to comply with current federal, state and local provisions regulating the discharge of materials into the environment or other potential costs related to protecting the environment are incorporated into the routine cost structure of our various business segments and are not expected to have a material adverse effect on the competitive position, consolidated results of operations, cash flows or financial position of the Duke Energy Registrants.

The "Other Matters" section of Management's Discussion and Analysis includes an estimate of future capital expenditures required to comply with environmental regulations and a discussion of Global Climate Change including the potential impact of current and future legislation related to GHG emissions on the Duke Energy Registrants' operations. Recently passed and potential future environmental statutes and regulations could have a significant impact on the Duke Energy Registrants' results of operations, cash flows or financial

position. However, if and when such statutes and regulations become effective, the Duke Energy Registrants will seek appropriate regulatory recovery of costs to comply within its regulated operations.

DUKE ENERGY CAROLINAS

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas' service area covers approximately 24,000 square miles and supplies electric service to 2.6 million residential, commercial and industrial customers. For information about Duke Energy Carolinas' generating facilities, see Item 2, "Properties." Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Carolinas' operations are regulated and qualify for regulatory accounting. Duke Energy Carolinas operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PROGRESS ENERGY

Progress Energy is a public utility holding company primarily engaged in the regulated electric utility business and is subject to regulation by the FERC. Progress Energy conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. When discussing Progress Energy's financial information, it necessarily includes the results of Duke Energy Progress and Duke Energy Florida.

Substantially all of Progress Energy's operations are regulated and qualify for regulatory accounting. Progress Energy operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY PROGRESS

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress' service area covers approximately 32,000 square miles and supplies electric service to approximately 1.6 million residential, commercial and industrial customers. For information about Duke Energy Progress' generating facilities, see Item 2, "Properties." Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Progress' operations are regulated and qualify for regulatory accounting. Duke Energy Progress operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY FLORIDA

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida's service area covers approximately 13,000 square miles and supplies electric service to approximately 1.8 million residential, commercial and industrial customers. For information about Duke Energy Florida's generating facilities, see Item 2, "Properties." Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Substantially all of Duke Energy Florida's operations are regulated and qualify for regulatory accounting. Duke Energy Florida operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

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DUKE ENERGY OHIO

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, in the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio also conducts competitive auctions for retail electricity supply in Ohio whereby recovery of the energy price is from retail customers. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC, PHMSA and FERC.

Duke Energy Ohio's service area covers approximately 3,000 square miles and supplies electric service to approximately 860,000 residential, commercial and industrial customers and provides transmission and distribution services for natural gas to approximately 538,000 customers. For information about Duke Energy Ohio's generating facilities, see Item 2, "Properties."

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

Substantially all of Duke Energy Ohio's operations are regulated and qualify for regulatory accounting. Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure. For additional information on these business segments, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY INDIANA

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana's service area covers 23,000 square miles and supplies electric service to 840,000 residential, commercial and industrial customers. For information about Duke Energy Indiana's generating facilities, see Item 2, "Properties." Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Substantially all of Duke Energy Indiana's operations are regulated and qualify for regulatory accounting. Duke Energy Indiana operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PIEDMONT

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are wholesale customers. For information about Piedmont's natural gas distribution facilities, see Item 2, "Properties." Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC, PHMSA and FERC.

Substantially all of Piedmont's operations are regulated and qualify for regulatory accounting. Piedmont operates one reportable business segment, Gas Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

ITEM 1A. RISK FACTORS

In addition to other disclosures within this Form 10-K, including "Management's Discussion and Analysis of Financial Condition and Results of Operations – Matters Impacting Future Results" for each registrant in Item 7, and other documents filed with the SEC from time to time, the following factors should be considered in evaluating Duke Energy and its subsidiaries. Such factors could affect actual results of operations and cause results to differ substantially from those currently expected or sought. Unless otherwise indicated, risk factors discussed below generally relate to risks associated with all of the Duke Energy Registrants. Risks identified at the Subsidiary Registrant level are generally applicable to Duke Energy.

BUSINESS STRATEGY RISKS

Duke Energy's future results could be adversely affected if it is unable to implement its business strategy.

Duke Energy's results of operations depend, in significant part, on the extent to which it can implement its business strategy successfully. Duke Energy's strategy, including transforming the customer experience, modernizing the energy grid, generating cleaner energy, expansion of natural gas infrastructure, modernizing the regulatory construct, digital transformation and engaging employees and stakeholders to accomplish these priorities, is subject to business, economic and competitive uncertainties and contingencies, many of which are beyond its control. As a consequence, Duke Energy may not be able to fully implement or realize the anticipated results of its strategy.

REGULATORY, LEGISLATIVE AND LEGAL RISKS

The Duke Energy Registrants' regulated utility revenues, earnings and results are dependent on state legislation and regulation that affect electric generation, electric and natural gas transmission, distribution and related activities, which may limit their ability to recover costs.

The Duke Energy Registrants' regulated electric and natural gas utility businesses are regulated on a cost-of-service/rate-of-return basis subject to statutes and regulatory commission rules and procedures of North Carolina, South Carolina, Florida, Ohio, Tennessee, Indiana and Kentucky. If the Duke Energy Registrants' regulated utility earnings exceed the returns established by the state utility commissions, retail electric and natural gas rates may be subject to review and possible reduction by the commissions, which may decrease the Duke Energy Registrants' earnings. Additionally, if regulatory bodies do not allow recovery of costs incurred in providing service, or do not do so on a timely basis, the Duke Energy Registrants' earnings could be negatively impacted.

If legislative and regulatory structures were to evolve in such a way that the Duke Energy Registrants' exclusive rights to serve their regulated customers were eroded, their earnings could be negatively impacted. Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system and an increase in customer net energy metering, which allows customers with private solar to receive bill credits for surplus power at the full retail amount. Over time, customer adoption of these technologies and increased energy efficiency could result in excess generation resources as well as stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

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State regulators have approved various mechanisms to stabilize natural gas utility margins, including margin decoupling in North Carolina and rate stabilization in South Carolina. State regulators have approved other margin stabilizing mechanisms that, for example, allow for recovery of margin losses associated with negotiated transactions designed to retain large volume customers that could use alternative fuels or that may otherwise directly access natural gas supply through their own connection to an interstate pipeline. If regulators decided to discontinue the Duke Energy Registrants' use of tariff mechanisms, it would negatively impact results of operations, financial condition and cash flows. In addition, regulatory authorities also review whether natural gas costs are prudent and can disallow the recovery of a portion of natural gas costs that the Duke Energy Registrants seek to recover from customers, which would adversely impact earnings.

The rates that the Duke Energy Registrants' regulated utility businesses are allowed to charge are established by state utility commissions in rate case proceedings, which may limit their ability to recover costs and earn an appropriate return on investment.

The rates that the Duke Energy Registrants' regulated utility business are allowed to charge significantly influences the results of operations, financial position and cash flows of the Duke Energy Registrants. The regulation of the rates that the regulated utility businesses charge customers is determined, in large part, by state utility commissions in rate case proceedings. Negative decisions made by these regulators, or by any court on appeal of a rate case proceeding, could have a material adverse effect on the Duke Energy Registrants' results of operations, financial position or cash flows and affect the ability of the Duke Energy Registrants to recover costs and an appropriate return on the significant infrastructure investments being made.

Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs that could adversely affect the Duke Energy Registrants' financial position, results of operations or cash flows and their utility businesses.

Increased competition resulting from deregulation or restructuring legislation could have a significant adverse impact on the Duke Energy Registrants' results of operations, financial position or cash flows. If the retail jurisdictions served by the Duke Energy Registrants become subject to deregulation, the impairment of assets, loss of retail customers, lower profit margins or increased costs of capital, and recovery of stranded costs could have a significant adverse financial impact on the Duke Energy Registrants. Stranded costs primarily include the generation assets of the Duke Energy Registrants whose value in a competitive marketplace may be less than their current book value, as well as above-market purchased power commitments from QFs from whom the Duke Energy Registrants are legally obligated to purchase energy at an avoided cost rate under PURPA. The Duke Energy Registrants cannot predict the extent and timing of entry by additional competitors into the electric markets. The Duke Energy Registrants cannot predict if or when they will be subject to changes in legislation or regulation, nor can they predict the impact of these changes on their results of operations, financial position or cash flows.

The Duke Energy Registrants' businesses are subject to extensive federal regulation and a wide variety of laws and governmental policies, including taxes, that may change over time in ways that affect operations and costs.

The Duke Energy Registrants are subject to regulations under a wide variety of U.S. federal and state regulations and policies, including by FERC, NRC, EPA and various other federal agencies as well as the North American Electric Reliability Corporation. Regulation affects almost every aspect of the Duke Energy Registrants' businesses, including, among other things, their ability to: take fundamental business management actions; determine the terms and rates of transmission and distribution services; make acquisitions; issue equity

or debt securities; engage in transactions with other subsidiaries and affiliates; and pay dividends upstream to the Duke Energy Registrants. Changes to federal regulations are continuous and ongoing. There can be no assurance that laws, regulations and policies will not be changed in ways that result in material modifications of business models and objectives or affect returns on investment by restricting activities and products, subjecting them to escalating costs, causing delays, or prohibiting them outright.

The Duke Energy Registrants are subject to numerous environmental laws and regulations requiring significant capital expenditures that can increase the cost of operations, and which may impact or limit business plans, or cause exposure to environmental liabilities.

The Duke Energy Registrants are subject to numerous environmental laws and regulations affecting many aspects of their present and future operations, including CCRs, air emissions, water quality, wastewater discharges, solid waste and hazardous waste. These laws and regulations can result in increased capital, operating and other costs. These laws and regulations generally require the Duke Energy Registrants to obtain and comply with a wide variety of environmental licenses, permits, inspections and other approvals. Compliance with environmental laws and regulations can require significant expenditures, including expenditures for cleanup costs and damages arising from contaminated properties. Failure to comply with environmental regulations may result in the imposition of fines, penalties and injunctive measures affecting operating assets. The steps the Duke Energy Registrants could be required to take to ensure their facilities are in compliance could be prohibitively expensive. As a result, the Duke Energy Registrants may be required to shut down or alter the operation of their facilities, which may cause the Duke Energy Registrants to incur losses. Further, the Duke Energy Registrants may not be successful in recovering capital and operating costs incurred to comply with new environmental regulations through existing regulatory rate structures and their contracts with customers. Also, the Duke Energy Registrants may not be able to obtain or maintain from time to time all required environmental regulatory approvals for their operating assets or development projects. Delays in obtaining any required environmental regulatory approvals, failure to obtain and comply with them or changes in environmental laws or regulations to more stringent compliance levels could result in additional costs of operation for existing facilities or development of new facilities being prevented, delayed or subject to additional costs. Although it is not expected that the costs to comply with current environmental regulations will have a material adverse effect on the Duke Energy Registrants' results of operations, financial position and cash flows due to regulatory cost recovery, the Duke Energy Registrants are at risk that the costs of complying with environmental regulations in the future will have such an effect.

The EPA has enacted or proposed federal regulations governing the management of cooling water intake structures, wastewater and CO₂ emissions. These regulations may require the Duke Energy Registrants to make additional capital expenditures and increase operating and maintenance costs.

Duke Energy Carolinas and Duke Energy Progress are subject to the terms of probation set out in judgments of the United States District Court for the Eastern District of North Carolina on May 14, 2015. The judgments are based on events and activities that took place prior to 2015. The terms of probation require the companies to comply with certain environmental regulatory obligations related to coal ash and subject the two companies to oversight by a Court Appointed Monitor. If Duke Energy Carolinas or Duke Energy Progress failed to comply with certain coal ash-related environmental laws and regulations or otherwise violated the terms of probation, it could result in the imposition of additional penalties, including the revocation of probation and re-prosecution of the underlying violations. Although it is not expected that the companies will violate the terms of probation or that additional material penalties would occur, a significant violation of probation could have a material adverse effect on the Duke Energy Registrants' reputation, results of operations, financial position and cash flows.

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The Duke Energy Registrants' operations, capital expenditures and financial results may be affected by regulatory changes related to the impacts of global climate change.

There is continued concern, both nationally and internationally, about climate change. The EPA and state regulators may adopt and implement regulations to restrict emissions of GHGs to address global climate change. Increased regulation of GHG emissions could impose significant additional costs on the Duke Energy Registrants' operations, their suppliers and customers. Regulatory changes could also result in generation facilities to be retired early and result in stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

OPERATIONAL RISKS

The Duke Energy Registrants' results of operations may be negatively affected by overall market, economic and other conditions that are beyond their control.

Sustained downturns or sluggishness in the economy generally affect the markets in which the Duke Energy Registrants operate and negatively influence operations. Declines in demand for electricity or natural gas as a result of economic downturns in the Duke Energy Registrants' regulated service territories will reduce overall sales and lessen cash flows, especially as industrial customers reduce production and, therefore, consumption of electricity and the use of natural gas. Although the Duke Energy Registrants' regulated electric and natural gas businesses are subject to regulated allowable rates of return and recovery of certain costs, such as fuel and purchased natural gas costs, under periodic adjustment clauses, overall declines in electricity or natural gas sold as a result of economic downturn or recession could reduce revenues and cash flows, thereby diminishing results of operations. Additionally, prolonged economic downturns that negatively impact the Duke Energy Registrants' results of operations and cash flows could result in future material impairment charges to write-down the carrying value of certain assets, including goodwill, to their respective fair values.

The Duke Energy Registrants also sell electricity into the spot market or other competitive power markets on a contractual basis. With respect to such transactions, the Duke Energy Registrants are not guaranteed any rate of return on their capital investments through mandated rates, and revenues and results of operations are likely to depend, in large part, upon prevailing market prices. These market prices may fluctuate substantially over relatively short periods of time and could reduce the Duke Energy Registrants' revenues and margins, thereby diminishing results of operations.

Factors that could impact sales volumes, generation of electricity and market prices at which the Duke Energy Registrants are able to sell electricity and natural gas are as follows:

- weather conditions, including abnormally mild winter or summer weather that cause lower energy or natural gas usage for heating or cooling purposes, as applicable, and periods of low rainfall that decrease the ability to operate facilities in an economical manner;
- supply of and demand for energy commodities;
- transmission or transportation constraints or inefficiencies that impact nonregulated energy operations;
- availability of competitively priced alternative energy sources, which are preferred by some customers over electricity produced from coal, nuclear or natural gas plants, and customer usage of energy-efficient equipment that reduces energy demand;
- natural gas, crude oil and refined products production levels and prices;

- ability to procure satisfactory levels of inventory, such as coal, natural gas and uranium; and
- capacity and transmission service into, or out of, the Duke Energy Registrants' markets.

Natural disasters or operational accidents may adversely affect the Duke Energy Registrants' operating results.

Natural disasters or other operational accidents within the company or industry (such as forest fires, earthquakes, hurricanes or natural gas transmission pipeline explosions) could have direct or indirect impacts to the Duke Energy Registrants or to key contractors and suppliers. Further, the generation of electricity and the transportation and storage of natural gas involve inherent operating risks that may result in accidents involving serious injury or loss of life, environmental damage or property damage. Such events could impact the Duke Energy Registrants through changes to policies, laws and regulations whose compliance costs have a significant impact on the Duke Energy Registrants' results of operations, financial position and cash flows. In addition, if a serious operational accident were to occur, it could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

The reputation and financial condition of the Duke Energy Registrants could be negatively impacted due to their obligations to comply with federal and state regulations, laws, and other legal requirements that govern the operations, assessments, storage, closure, remediation, disposal and monitoring relating to CCR, the high costs and new rate impacts associated with implementing these new CCR-related requirements and the strategies and methods necessary to implement these requirements in compliance with these legal obligations.

As a result of electricity produced for decades at coal-fired power plants, the Duke Energy Registrants manage large amounts of CCR that are primarily stored in dry storage within landfills or combined with water in other surface impoundments, all in compliance with applicable regulatory requirements. However, the potential exists for another CCR-related incident, such as the one that occurred during the 2014 Dan River Steam Station ash basin release, that could raise environmental or public health concerns. Such a CCR-related incident could have a material adverse impact on the reputation and results of operations, financial position and cash flows of the Duke Energy Registrants.

During 2015, EPA regulations were enacted related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the RCRA and apply to electric generating sites with new and existing landfills, new and existing surface impoundments, structural fills and CCR piles, and establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments will continue to be independently regulated by existing state laws, regulations and permits, as well as additional legal requirements that may be imposed in the future. These federal and state laws, regulations and other legal requirements may require or result in additional expenditures, increased operating and maintenance costs and/or result in closure of certain power generating facilities, which could affect the results of operations, financial position and cash flows of the Duke Energy Registrants. The Duke Energy Registrants will continue to seek full cost recovery for expenditures through the normal ratemaking process with state and federal utility commissions, who permit recovery in rates of necessary and prudently incurred costs associated with the Duke Energy Registrants' regulated operations, and through other wholesale contracts with terms that contemplate

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recovery of such costs, although there is no guarantee of full cost recovery. In addition, the timing for recovery of such costs could have a material adverse impact on Duke Energy's cash flows.

The Duke Energy Registrants have recognized significant asset retirement obligations related to these CCR-related requirements. Closure activities began in 2015 at the four sites specified as high priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of large amounts of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. At other sites, preliminary planning and closure methods have been studied and factored into the estimated retirement and management costs. The Coal Ash Act requires CCR surface impoundments in North Carolina to be closed, with the closure method and timing based on a risk ranking classification determined by legislation or state regulators. Additionally, the RCRA required closure timing depends upon meeting or continuing to meet certain criteria. As the closure and CCR management work progresses and final closure plans and corrective action measures are developed and approved at each site, the scope and complexity of work and the amount of CCR material could be greater than estimates and could, therefore, materially increase compliance expenditures and rate impacts.

The Duke Energy Registrants' financial position, results of operations and cash flows may be negatively affected by a lack of growth or slower growth in the number of customers, or decline in customer demand or number of customers.

Growth in customer accounts and growth of customer usage each directly influence demand for electricity and natural gas and the need for additional power generation and delivery facilities. Customer growth and customer usage are affected by a number of factors outside the control of the Duke Energy Registrants, such as mandated energy efficiency measures, demand-side management goals, distributed generation resources and economic and demographic conditions, such as population changes, job and income growth, housing starts, new business formation and the overall level of economic activity.

Certain regulatory and legislative bodies have introduced or are considering requirements and/or incentives to reduce energy consumption by certain dates. Additionally, technological advances driven by federal laws mandating new levels of energy efficiency in end-use electric devices or other improvements in or applications of technology could lead to declines in per capita energy consumption.

Advances in distributed generation technologies that produce power, including fuel cells, microturbines, wind turbines and solar cells, may reduce the cost of alternative methods of producing power to a level competitive with central power station electric production utilized by the Duke Energy Registrants.

Some or all of these factors could result in a lack of growth or decline in customer demand for electricity or number of customers and may cause the failure of the Duke Energy Registrants to fully realize anticipated benefits from significant capital investments and expenditures, which could have a material adverse effect on their results of operations, financial position and cash flows.

Furthermore, the Duke Energy Registrants currently have energy efficiency riders in place to recover the cost of energy efficiency programs in North Carolina, South Carolina, Florida, Indiana, Ohio and Kentucky. Should the Duke Energy Registrants be required to invest in conservation measures that result in reduced sales from effective conservation, regulatory lag in adjusting rates for the impact of these measures could have a negative financial impact.

The Duke Energy Registrants' operating results may fluctuate on a seasonal and quarterly basis and can be negatively affected by changes in weather conditions and severe weather, including extreme weather conditions associated with climate change.

Electric power generation and natural gas distribution are generally seasonal businesses. In most parts of the U.S., the demand for power peaks during the warmer summer months, with market prices also typically peaking at that time. In other areas, demand for power peaks during the winter. Demand for natural gas peaks during the winter months. Further, extreme weather conditions such as hurricanes, droughts, heat waves, winter storms and severe weather associated with climate change could cause these seasonal fluctuations to be more pronounced. As a result, the overall operating results of the Duke Energy Registrants' businesses may fluctuate substantially on a seasonal and quarterly basis and thus make period-to-period comparison less relevant.

Sustained severe drought conditions could impact generation by hydroelectric plants, as well as fossil and nuclear plant operations, as these facilities use water for cooling purposes and for the operation of environmental compliance equipment. Furthermore, destruction caused by severe weather events, such as hurricanes, tornadoes, severe thunderstorms, snow and ice storms, can result in lost operating revenues due to outages, property damage, including downed transmission and distribution lines, and additional and unexpected expenses to mitigate storm damage. The cost of storm restoration efforts may not be fully recoverable through the regulatory process.

The Duke Energy Registrants' sales may decrease if they are unable to gain adequate, reliable and affordable access to transmission assets.

The Duke Energy Registrants depend on transmission and distribution facilities owned and operated by utilities and other energy companies to deliver electricity sold to the wholesale market. The FERC's power transmission regulations require wholesale electric transmission services to be offered on an open-access, non-discriminatory basis. If transmission is disrupted, or if transmission capacity is inadequate, the Duke Energy Registrants' ability to sell and deliver products may be hindered.

The different regional power markets have changing regulatory structures, which could affect growth and performance in these regions. In addition, the ISOs who oversee the transmission systems in regional power markets have imposed in the past, and may impose in the future, price limitations and other mechanisms to address volatility in the power markets. These types of price limitations and other mechanisms may adversely impact the profitability of the Duke Energy Registrants' wholesale power marketing business.

Duke Energy may be unable to complete necessary or desirable pipeline expansion or infrastructure development or maintenance projects, which may prevent the Duke Energy Registrants from expanding the natural gas business.

In order to serve current or new natural gas customers or expand the service to existing customers, the Duke Energy Registrants need to maintain, expand or upgrade distribution, transmission and/or storage infrastructure, including laying new pipeline and building compressor stations. Duke Energy Registrants have made significant investments in a number of pipeline development projects, which are being operated and constructed by third-party joint venture partners. The Duke Energy Registrants must rely on their third-party joint venture partners for proper construction management of the projects and are dependent upon contractors for the successful and timely completion of the projects. In addition, various factors, such as the inability to obtain required approval from local, state and/or federal regulatory and governmental bodies, public opposition to projects, adverse litigation rulings, inability to obtain adequate financing, competition for labor and materials, construction delays, cost overruns and the inability to negotiate acceptable agreements relating to rights of way, construction or other material development components, may prevent or delay the completion of projects or materially increase the cost of such projects, which could have a material adverse effect on the results of operations and financial position of Duke Energy.

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The availability of adequate interstate pipeline transportation capacity and natural gas supply may decrease.

The Duke Energy Registrants purchase almost all of their natural gas supply from interstate sources that must be transported to the applicable service territories. Interstate pipeline companies transport the natural gas to the Duke Energy Registrants' systems under firm service agreements that are designed to meet the requirements of their core markets. A significant disruption to interstate pipelines capacity or reduction in natural gas supply due to events including, but not limited to, operational failures or disruptions, hurricanes, tornadoes, floods, freeze off of natural gas wells, terrorist or cyberattacks or other acts of war or legislative or regulatory actions or requirements, including remediation related to integrity inspections, could reduce the normal interstate supply of natural gas and thereby reduce earnings. Moreover, if additional natural gas infrastructure, including, but not limited to, exploration and drilling rigs and platforms, processing and gathering systems, off-shore pipelines, interstate pipelines and storage, cannot be built at a pace that meets demand, then growth opportunities could be limited and earnings negatively impacted.

Fluctuations in commodity prices or availability may adversely affect various aspects of the Duke Energy Registrants' operations as well as their financial position, results of operations and cash flows.

The Duke Energy Registrants are exposed to the effects of market fluctuations in the price of natural gas, coal, fuel oil, nuclear fuel, electricity and other energy-related commodities as a result of their ownership of energy-related assets. Fuel costs are recovered primarily through cost-recovery clauses, subject to the approval of state utility commissions.

Additionally, the Duke Energy Registrants are exposed to risk that counterparties will not be able to fulfill their obligations. Disruption in the delivery of fuel, including disruptions as a result of, among other things, transportation delays, weather, labor relations, force majeure events or environmental regulations affecting any of these fuel suppliers, could limit the Duke Energy Registrants' ability to operate their facilities. Should counterparties fail to perform, the Duke Energy Registrants might be forced to replace the underlying commitment at prevailing market prices possibly resulting in losses in addition to the amounts, if any, already paid to the counterparties.

Certain of the Duke Energy Registrants' hedge agreements may result in the receipt of, or posting of, collateral with counterparties, depending on the daily market-based calculation of financial exposure of the derivative positions. Fluctuations in commodity prices that lead to the return of collateral received and/or the posting of collateral with counterparties could negatively impact liquidity. Downgrades in the Duke Energy Registrants' credit ratings could lead to additional collateral posting requirements. The Duke Energy Registrants continually monitor derivative positions in relation to market price activity.

Potential terrorist activities, or military or other actions, could adversely affect the Duke Energy Registrants' businesses.

The continued threat of terrorism and the impact of retaliatory military and other action by the U.S. and its allies may lead to increased political, economic and financial market instability and volatility in prices for natural gas and oil, which may have material adverse effects in ways the Duke Energy Registrants cannot predict at this time. In addition, future acts of terrorism and possible reprisals as a consequence of action by the U.S. and its allies could be directed against companies operating in the U.S. Information technology systems, transmission and distribution and generation facilities such as nuclear plants could be potential targets of terrorist activities or harmful activities by individuals or groups that could have a material adverse effect on Duke Energy Registrants' businesses. In particular, the Duke Energy Registrants may experience increased capital and operating costs to implement increased security for their information technology systems, transmission and distribution and generation facilities, including nuclear power plants under the NRC's design

basis threat requirements. These increased costs could include additional physical plant security and security personnel or additional capability following a terrorist incident.

The failure of Duke Energy information technology systems, or the failure to enhance existing information technology systems and implement new technology, could adversely affect the Duke Energy Registrants' businesses.

Duke Energy's operations are dependent upon the proper functioning of its internal systems, including the information technology systems that support our underlying business processes. Any significant failure or malfunction of such information technology systems may result in disruptions of our operations. In the ordinary course of business, we rely on information technology systems, including the internet and third-party hosted services, to support a variety of business processes and activities and to store sensitive data, including (i) intellectual property, (ii) proprietary business information, (iii) personally identifiable information of our customers and employees, and (iv) data with respect to invoicing and the collection of payments, accounting, procurement, and supply chain activities. Our information technology systems are dependent upon global communications and cloud service providers, as well as their respective vendors, many of whom have at some point experienced significant system failures and outages in the past and may experience such failures and outages in the future. These providers' systems are susceptible to cybersecurity and data breaches, outages from fire, floods, power loss, telecommunications failures, break-ins and similar events. Failure to prevent or mitigate data loss from system failures or outages could materially affect the results of operations, financial position and cash flows of the Duke Energy Registrants.

In addition to maintaining our current information technology systems, Duke Energy believes the digital transformation of its business is key to driving internal efficiencies as well as providing additional capabilities to customers. Duke Energy's information technology systems are critical to cost-effective, reliable daily operations and our ability to effectively serve our customers. We expect our customers to continue to demand more sophisticated technology-driven solutions and we must enhance or replace our information technology systems in response. This involves significant development and implementation costs to keep pace with changing technologies and customer demand. If we fail to successfully implement critical technology, or if it does not provide the anticipated benefits or meet customer demands, such failure could materially adversely affect our business strategy as well as impact the results of operations, financial position and cash flows of the Duke Energy Registrants.

Cyberattacks and data security breaches could adversely affect the Duke Energy Registrants' businesses.

Cybersecurity risks have increased in recent years as a result of the proliferation of new technologies and the increased sophistication, magnitude and frequency of cyberattacks and data security breaches. Duke Energy relies on the continued operation of sophisticated digital information technology systems and network infrastructure, which are part of an interconnected regional grid. Additionally, connectivity to the internet continues to increase through grid modernization and other operational excellence initiatives. Because of the critical nature of the infrastructure, increased connectivity to the internet and technology systems' inherent vulnerability to disability or failures due to hacking, viruses, acts of war or terrorism or other types of data security breaches, the Duke Energy Registrants face a heightened risk of cyberattack from foreign or domestic sources and have been subject, and will likely continue to be subject, to attempts to gain unauthorized access to information and/or information systems or to disrupt utility operations through computer viruses and phishing attempts either directly or indirectly through its material vendors or related third parties. In the event of a significant cybersecurity breach on either the Duke Energy Registrants or with one of our material vendors or related third parties, the Duke Energy Registrants could (i) have business operations

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disrupted, including the disruption of the operation of our assets and the power grid, theft of confidential company, employee, shareholder, vendor or customer information, and general business systems and process interruption or compromise, including preventing the Duke Energy Registrants from servicing customers, collecting revenues or the recording, processing and/or reporting financial information correctly, (ii) experience substantial loss of revenues, repair and restoration costs, penalties and costs for lack of compliance with relevant regulations, implementation costs for additional security measures to avert future cyberattacks and other financial loss and (iii) be subject to increased regulation, litigation and reputational damage. While Duke Energy maintains insurance relating to cybersecurity events, such insurance is subject to a number of exclusions and may be insufficient to offset any losses, costs or damage experienced. Also, the market for cybersecurity insurance is relatively new and coverage available for cybersecurity events may evolve as the industry matures.

The Duke Energy Registrants are subject to standards enacted by the North American Electric Reliability Corporation and enforced by FERC regarding protection of the physical and cyber security of critical infrastructure assets required for operating North America's bulk electric system. The Duke Energy Registrants are also subject to regulations set by the Nuclear Regulatory Commission regarding the protection of digital computer and communication systems and networks required for the operation of nuclear power plants. While the Duke Energy Registrants believe they are in compliance with such standards and regulations, the Duke Energy Registrants have from time to time been, and may in the future be, found to be in violation of such standards and regulations. In addition, compliance with or changes in the applicable standards and regulations may subject the Duke Energy Registrants to higher operating costs and/or increased capital expenditures as well as substantial fines for non-compliance.

Failure to attract and retain an appropriately qualified workforce could unfavorably impact the Duke Energy Registrants' results of operations.

Certain events, such as an aging workforce, mismatch of skill set or complement to future needs, or unavailability of contract resources may lead to operating challenges and increased costs. The challenges include lack of resources, loss of knowledge base and the lengthy time required for skill development. In this case, costs, including costs for contractors to replace employees, productivity costs and safety costs, may increase. Failure to hire and adequately train replacement employees, including the transfer of significant internal historical knowledge and expertise to new employees, or future availability and cost of contract labor may adversely affect the ability to manage and operate the business, especially considering the workforce needs associated with nuclear generation facilities and new skills required to operate a modernized, technology-enabled power grid. If the Duke Energy Registrants are unable to successfully attract and retain an appropriately qualified workforce, their results of operations, financial position and cash flows could be negatively affected.

The costs of decommissioning Duke Energy Florida's Crystal River Unit 3 could prove to be more extensive than is currently identified.

Costs to decommission the plant could exceed estimates and, if not recoverable through the regulatory process, could adversely affect Duke Energy's, Progress Energy's and Duke Energy Florida's results of operations, financial position and cash flows.

Duke Energy Ohio's and Duke Energy Indiana's membership in an RTO presents risks that could have a material adverse effect on their results of operations, financial position and cash flows.

The rules governing the various regional power markets may change, which could affect Duke Energy Ohio's and Duke Energy Indiana's costs and/or revenues. To the degree Duke Energy Ohio and Duke Energy Indiana incur significant additional fees and increased costs to participate in an RTO, their results of operations may be impacted. Duke Energy Ohio and Duke Energy Indiana may be allocated a portion of the cost of transmission facilities built by others due to changes in RTO transmission rate design. Duke Energy Ohio and Duke Energy Indiana may be required to expand their transmission system according to decisions made by an RTO rather than their own internal planning process. In addition, RTOs have been developing rules associated with the allocation and methodology of assigning costs associated with improved transmission reliability, reduced transmission congestion and firm transmission rights that may have a financial impact on the results of operations, financial position and cash flows of Duke Energy Ohio and Duke Energy Indiana.

As members of an RTO, Duke Energy Ohio and Duke Energy Indiana are subject to certain additional risks, including those associated with the allocation among RTO members, of losses caused by unreimbursed defaults of other participants in the RTO markets and those associated with complaint cases filed against an RTO that may seek refunds of revenues previously earned by RTO members.

The Duke Energy Registrants may not recover costs incurred to begin construction on projects that are canceled.

Duke Energy's long-term strategy requires the construction of new projects, either wholly owned or partially owned, which involve a number of risks, including construction delays, nonperformance by equipment and other third-party suppliers, and increases in equipment and labor costs. To limit the risks of these construction projects, the Duke Energy Registrants enter into equipment purchase orders and construction contracts and incur engineering and design service costs in advance of receiving necessary regulatory approvals and/or siting or environmental permits. If any of these projects are canceled for any reason, including failure to receive necessary regulatory approvals and/or siting or environmental permits, significant cancellation penalties under the equipment purchase orders and construction contracts could occur. In addition, if any construction work or investments have been recorded as an asset, an impairment may need to be recorded in the event the project is canceled.

NUCLEAR GENERATION RISKS

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida may incur substantial costs and liabilities due to their ownership and operation of nuclear generating facilities.

Ownership interests in and operation of nuclear stations by Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida subject them to various risks. These risks include, among other things: the potential harmful effects on the environment and human health resulting from the current or past operation of nuclear facilities and the storage, handling and disposal of radioactive materials; limitations on the amounts and types of insurance commercially available to cover losses that might arise in connection with nuclear operations; and uncertainties with respect to the technological and financial aspects of decommissioning nuclear plants at the end of their licensed lives.

Ownership and operation of nuclear generation facilities requires compliance with licensing and safety-related requirements imposed by the NRC. In the event of non-compliance, the NRC may increase regulatory oversight, impose fines or shut down a unit depending upon its assessment of the severity of the situation. Revised security and safety requirements promulgated by the NRC, which could be prompted by, among other things, events within or outside of the control of Duke Energy Carolinas, Duke Energy Progress and Duke

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Energy Florida, such as a serious nuclear incident at a facility owned by a third party, could necessitate substantial capital and other expenditures, as well as assessments to cover third-party losses. In addition, if a serious nuclear incident were to occur, it could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

LIQUIDITY, CAPITAL REQUIREMENTS AND COMMON STOCK RISKS

The Duke Energy Registrants rely on access to short-term borrowings and longer-term debt and equity markets to finance their capital requirements and support their liquidity needs. Access to those markets can be adversely affected by a number of conditions, many of which are beyond the Duke Energy Registrants' control.

The Duke Energy Registrants' businesses are significantly financed through issuances of debt and equity. The maturity and repayment profile of debt used to finance investments often does not correlate to cash flows from their assets. Accordingly, as a source of liquidity for capital requirements not satisfied by the cash flows from their operations and to fund investments originally financed through debt instruments with disparate maturities, the Duke Energy Registrants rely on access to short-term money markets as well as longer-term capital markets. The Subsidiary Registrants also rely on access to short-term intercompany borrowings. If the Duke Energy Registrants are not able to access debt or equity at competitive rates or at all, the ability to finance their operations and implement their strategy and business plan as scheduled could be adversely affected. An inability to access debt and equity may limit the Duke Energy Registrants' ability to pursue improvements or acquisitions that they may otherwise rely on for future growth.

Market disruptions may increase the cost of borrowing or adversely affect the ability to access one or more financial markets. Such disruptions could include: economic downturns, the bankruptcy of an unrelated energy company, unfavorable capital market conditions, market prices for electricity and natural gas, actual or threatened terrorist attacks, or the overall health of the energy industry. The availability of credit under Duke Energy's Master Credit Facility depends upon the ability of the banks providing commitments under the facility to provide funds when their obligations to do so arise. Systematic risk of the banking system and the financial markets could prevent a bank from meeting its obligations under the facility agreement.

Duke Energy maintains a revolving credit facility to provide backup for its commercial paper program and letters of credit to support variable rate demand tax-exempt bonds that may be put to the Duke Energy Registrant issuer at the option of the holder. The facility includes borrowing sublimits for the Duke Energy Registrants, each of whom is a party to the credit facility, and financial covenants that limit the amount of debt that can be outstanding as a percentage of the total capital for the specific entity. Failure to maintain these covenants at a particular entity could preclude Duke Energy from issuing commercial paper or the Duke Energy Registrants from issuing letters of credit or borrowing under the Master Credit Facility.

The Duke Energy Registrants must meet credit quality standards and there is no assurance they will maintain investment grade credit ratings. If the Duke Energy Registrants are unable to maintain investment grade credit ratings, they would be required under credit agreements to provide collateral in the form of letters of credit or cash, which may materially adversely affect their liquidity.

Each of the Duke Energy Registrants' senior long-term debt issuances is currently rated investment grade by various rating agencies. The Duke Energy Registrants cannot ensure their senior long-term debt will be rated investment grade in the future.

If the rating agencies were to rate the Duke Energy Registrants below investment grade, borrowing costs would increase, perhaps significantly. In addition, the potential pool of investors and funding sources would likely decrease. Further, if the short-term debt rating were to fall, access to the commercial paper market could be significantly limited.

A downgrade below investment grade could also require the posting of additional collateral in the form of letters of credit or cash under various credit, commodity and capacity agreements and trigger termination clauses in some interest rate derivative agreements, which would require cash payments. All of these events would likely reduce the Duke Energy Registrants' liquidity and profitability and could have a material effect on their results of operations, financial position and cash flows.

Non-compliance with debt covenants or conditions could adversely affect the Duke Energy Registrants' ability to execute future borrowings.

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements.

Market performance and other changes may decrease the value of the NDTF investments of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, which then could require significant additional funding.

Ownership and operation of nuclear generation facilities also requires the maintenance of funded trusts that are intended to pay for the decommissioning costs of the respective nuclear power plants. The performance of the capital markets affects the values of the assets held in trust to satisfy these future obligations. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida have significant obligations in this area and hold significant assets in these trusts. These assets are subject to market fluctuations and will yield uncertain returns, which may fall below projected rates of return. Although a number of factors impact funding requirements, a decline in the market value of the assets may increase the funding requirements of the obligations for decommissioning nuclear plants. If Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are unable to successfully manage their NDTF assets, their results of operations, financial position and cash flows could be negatively affected.

Poor investment performance of the Duke Energy pension plan holdings and other factors impacting pension plan costs could unfavorably impact the Duke Energy Registrants' liquidity and results of operations.

The costs of providing non-contributory defined benefit pension plans are dependent upon a number of factors, such as the rates of return on plan assets, discount rates, the level of interest rates used to measure the required minimum funding levels of the plans, future government regulation and required or voluntary contributions made to the plans. The Subsidiary Registrants are allocated their proportionate share of the cost and obligations related to these plans. Without sustained growth in the pension investments over time to increase the value of plan assets and, depending upon the other factors impacting costs as listed above, Duke Energy could be required to fund its plans with significant amounts of cash. Such cash funding obligations, and the Subsidiary Registrants' proportionate share of such cash funding obligations, could have a material impact on the Duke Energy Registrants' results of operations, financial position and cash flows.

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Duke Energy is a holding company and depends on the cash flows from its subsidiaries to meet its financial obligations.

Because Duke Energy is a holding company with no operations or cash flows of its own, its ability to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on its common stock, is primarily dependent on the net income and cash flows of its subsidiaries and the ability of those subsidiaries to pay

upstream dividends or to repay borrowed funds. Prior to funding Duke Energy, its subsidiaries have regulatory restrictions and financial obligations that must be satisfied. These subsidiaries are separate legal entities and have no obligation to provide Duke Energy with funds. In addition, Duke Energy may provide capital contributions or debt financing to its subsidiaries under certain circumstances, which would reduce the funds available to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on Duke Energy's common stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

ELECTRIC UTILITIES AND INFRASTRUCTURE

The following table provides information related to the Electric Utilities and Infrastructure's generation stations as of December 31, 2018. The MW displayed in the table below are based on summer capacity. Ownership interest in all facilities is 100 percent unless otherwise indicated.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Carolinas				
Oconee	Nuclear	Uranium	SC	2,554
McGuire	Nuclear	Uranium	NC	2,316
Catawba ^(a)	Nuclear	Uranium	SC	445
Belews Creek	Fossil	Coal	NC	2,220
Marshall	Fossil	Coal	NC	2,058
J.E. Rogers	Fossil	Coal	NC	1,388
Lincoln CT	Fossil	Gas/Oil	NC	1,193
Allen	Fossil	Coal	NC	1,098
Rockingham CT	Fossil	Gas/Oil	NC	825
Buck CC	Fossil	Gas	NC	668
Dan River CC	Fossil	Gas	NC	662
Mill Creek CT	Fossil	Gas/Oil	SC	563
W.S. Lee CC ^(b)	Fossil	Gas	SC	686
W.S. Lee	Fossil	Gas	SC	170
W.S. Lee CT	Fossil	Gas/Oil	SC	84
Bad Creek	Hydro	Water	SC	1,360
Jocassee	Hydro	Water	SC	780
Cowans Ford	Hydro	Water	NC	324
Keowee	Hydro	Water	SC	152
Other small facilities (23 plants)	Hydro	Water	NC/SC	632
Distributed generation	Renewable	Solar	NC	31
Total Duke Energy Carolinas				20,209

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Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Progress				
Brunswick	Nuclear	Uranium	NC	1,870
Harris	Nuclear	Uranium	NC	932
Robinson	Nuclear	Uranium	SC	741
Roxboro	Fossil	Coal	NC	2,439
Smith CC	Fossil	Gas/Oil	NC	1,073
H.F. Lee CC	Fossil	Gas/Oil	NC	888
Wayne County CT	Fossil	Gas/Oil	NC	857
Smith CT	Fossil	Gas/Oil	NC	772
Darlington CT	Fossil	Gas/Oil	SC	613
Mayo	Fossil	Coal	NC	727
L.V. Sutton CC	Fossil	Gas/Oil	NC	607
Asheville	Fossil	Coal	NC	378
Asheville CT	Fossil	Gas/Oil	NC	320
Weatherspoon CT	Fossil	Gas/Oil	NC	124
L.V. Sutton CT (Black Start)	Fossil	Gas/Oil	NC	78
Blewett CT	Fossil	Oil	NC	52
Walters	Hydro	Water	NC	112
Other small facilities (3 plants)	Hydro	Water	NC	115
Distributed generation	Renewable	Solar	NC	49
Total Duke Energy Progress				12,747
Duke Energy Florida				
Citrus County CC	Fossil	Gas	FL	1,632
Crystal River	Fossil	Coal	FL	1,422
Hines CC	Fossil	Gas/Oil	FL	2,045
Bartow CC	Fossil	Gas/Oil	FL	1,104
Anclote	Fossil	Gas	FL	1,003
Intercession City CT	Fossil	Gas/Oil	FL	951
Osprey CC	Fossil	Gas/Oil	FL	582
DeBary CT	Fossil	Gas/Oil	FL	561
Tiger Bay CC	Fossil	Gas/Oil	FL	200
Bartow CT	Fossil	Gas/Oil	FL	168
Bayboro CT	Fossil	Oil	FL	171
Suwannee River CT	Fossil	Gas	FL	149
Higgins CT	Fossil	Gas/Oil	FL	107
Avon Park CT	Fossil	Gas/Oil	FL	48
University of Florida CoGen CT	Fossil	Gas	FL	44
Hamilton	Renewable	Solar	FL	43
Distributed generation	Renewable	Solar	FL	8
Total Duke Energy Florida				10,238
Duke Energy Ohio				
East Bend	Fossil	Coal	KY	600
Woodsdale CT	Fossil	Gas/Propane	OH	476
Beckjord Battery Storage	Renewable	Storage	OH	4
Total Duke Energy Ohio				1,080
Duke Energy Indiana				
Gibson ^(a)	Fossil	Coal	IN	2,822
Cayuga ^(a)	Fossil	Coal/Oil	IN	1,005
Edwardsport	Fossil	Coal	IN	595
Madison CT	Fossil	Gas	OH	566
Vermillion CT ^(a)	Fossil	Gas	IN	360
Wheatland CT	Fossil	Gas	IN	450
Noblesville CC	Fossil	Gas/Oil	IN	264
Gallagher	Fossil	Coal	IN	280
Henry County CT	Fossil	Gas/Oil	IN	129
Cayuga CT	Fossil	Gas/Oil	IN	80
Markland	Hydro	Water	IN	45
Distributed generation	Renewable	Solar	IN	10
Total Duke Energy Indiana				6,606

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Totals by Type	Owned MW Capacity
Total Electric Utilities	50,880
Totals By Plant Type	
Nuclear	8,858
Fossil	38,357
Hydro	3,520
Renewable	145
Total Electric Utilities	50,880

- (a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA. Duke Energy Carolinas' ownership is 19.25 percent of the facility.
(b) Jointly owned with NCEMC. Duke Energy Carolinas' ownership is 86.67 percent of the facility.
(c) Duke Energy Indiana owns and operates Gibson Station Units 1 through 4 and is a joint owner of unit 5 with WYPA and Indiana Municipal Power Agency. Duke Energy Indiana operates unit 5 and owns 50.05 percent.
(d) Includes Cayuga Internal Combustion.
(e) Jointly owned with WYPA. Duke Energy Indiana's ownership is 62.50 percent of the facility.

The following table provides information related to Electric Utilities and Infrastructure's electric transmission and distribution properties as of December 31, 2018.

	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Electric Transmission Lines						
Miles of 500 to 525 kV	1,036	576	292	168	—	—
Miles of 345 kV	1,145	—	—	—	421	724
Miles of 230 kV	8,344	2,657	3,396	1,638	—	653
Miles of 100 to 161 kV	12,509	6,830	2,565	891	821	1,402
Miles of 13 to 69 kV	8,345	3,014	12	2,200	612	2,507
Total conductor miles of electric transmission lines	31,379	13,077	6,265	4,897	1,854	5,286
Electric Distribution Lines						
Miles of overhead lines	174,200	66,600	46,500	25,600	13,300	22,200
Miles of underground line	106,000	38,500	30,000	22,500	6,000	9,000
Total conductor miles of electric distribution lines	280,200	105,100	76,500	48,100	19,300	31,200
Number of electric transmission and distribution substations	3,291	1,476	512	493	310	500

Substantially all of Electric Utilities and Infrastructure's electric plant in service is mortgaged under indentures relating to Duke Energy Carolinas', Duke Energy Progress', Duke Energy Florida's, Duke Energy Ohio's and Duke Energy Indiana's various series of First Mortgage Bonds.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure owns transmission pipelines and distribution mains that are generally underground, located near public streets and highways, or on property owned by others for which Duke Energy Ohio and Piedmont have obtained the necessary legal rights to place and operate facilities on such property located within the Gas Utilities and Infrastructure service territories. The following table provides information related to Gas Utilities and Infrastructure's natural gas distribution.

	Duke Energy	Duke Energy Ohio	Piedmont
Miles of natural gas distribution and transmission pipelines	33,300	7,200	26,100
Miles of natural gas service lines	27,700	7,000	20,700

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COMMERCIAL RENEWABLES

The following table provides information related to Commercial Renewables' electric generation facilities as of December 31, 2018. The MW displayed in the table below are based on nameplate capacity. Ownership interest in all facilities is 100 percent unless otherwise indicated.

Facility	Plant Type	Location	Owned MW Capacity
Commercial Renewables – Wind			
Los Vientos (five sites)	Renewable	TX	912
Top of the World	Renewable	WY	200
Frontier	Renewable	OK	201
Notrees	Renewable	TX	153
Campbell Hill	Renewable	WY	99
North Allegheny	Renewable	PA	70
Laurel Hill	Renewable	PA	69
Ocotillo	Renewable	TX	59
Kit Carson	Renewable	CO	51
Silver Sage	Renewable	WY	42
Happy Jack	Renewable	WY	29
Shirley	Renewable	WI	20
Sweetwater IV ^(a)	Renewable	TX	113
Sweetwater V ^(a)	Renewable	TX	38
Ironwood ^(a)	Renewable	KS	84
Cimarron II ^(a)	Renewable	KS	66
Mesquite Creek ^(a)	Renewable	TX	106
Total Renewables – Wind			2,312
Commercial Renewables – Solar			
Conetoe II	Renewable	NC	80
Seville I & II	Renewable	CA	50
Rio Bravo I & II	Renewable	CA	40
Wildwood I & II	Renewable	CA	35
Caprock	Renewable	NM	25
Shoreham ^(b)	Renewable	NY	25
Kelford	Renewable	NC	22
Highlander	Renewable	CA	21
Dogwood	Renewable	NC	20
Halifax Airport	Renewable	NC	20
Pasquotank	Renewable	NC	20
Pumpjack	Renewable	CA	20
Shawboro	Renewable	NC	20
Longboat	Renewable	CA	20
Bagdad	Renewable	AZ	15
TX Solar	Renewable	TX	14
Creswell Alligood	Renewable	NC	14
Victory	Renewable	CO	13
Washington White Post	Renewable	NC	12
Whitakers	Renewable	NC	12
Other small solar ^(b)	Renewable	Various	145
Total Renewables – Solar			643
Commercial Renewables – Energy Storage			
Notrees Battery Storage	Renewable	TX	36
Total Renewables – Energy Storage			36
Total Commercial Renewables			2,991

(a) Commercial Renewables owns 47 percent of Sweetwater IV and V and 50 percent of Ironwood, Cimarron II and Mesquite Creek.

(b) Shoreham and certain projects included in Other small solar are in tax-equity structures where investors have differing interests in the project's economic attributes. 100 percent of the tax-equity project's capacity is included in the table above.

PART I

OTHER

Duke Energy owns approximately 8 million square feet and leases approximately 2 million square feet of corporate, regional and district office space spread throughout its service territories.

ITEM 3. LEGAL PROCEEDINGS

For information regarding legal proceedings, including regulatory and environmental matters, see Note 4, "Regulatory Matters," and Note 5, "Commitments and Contingencies," to the Consolidated Financial Statements.

MTBE Litigation

On June 19, 2014, the Commonwealth of Pennsylvania filed suit against, among others, Duke Energy Merchants, alleging contamination of waters of the state by MTBE from leaking gasoline storage tanks. MTBE is a gasoline additive intended to increase the oxygen level in gasoline and make it burn cleaner. The lawsuit was moved to federal court and consolidated into an existing multidistrict litigation docket of pending MTBE cases. This suit was settled for an immaterial amount in December 2017 and dismissed in January 2018.

In December 2017, the state of Maryland filed a lawsuit in Baltimore City Circuit Court against Duke Energy Merchants and other defendants alleging contamination of its water supplies from MTBE. The case was removed to the U.S. District Court in Baltimore. Duke Energy cannot predict the outcome of this matter.

ITEM 4. MINE SAFETY DISCLOSURES

This is not applicable for any of the Duke Energy Registrants.

PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

The common stock of Duke Energy is listed and traded on the NYSE (ticker symbol DUK). As of January 31, 2019, there were 149,275 Duke Energy common stockholders of record. For information on dividends, see the "Dividend Payments" section of Management's Discussion and Analysis.

There is no market for the common equity securities of the Subsidiary Registrants, all of which are directly or indirectly owned by Duke Energy.

Securities Authorized for Issuance Under Equity Compensation Plans

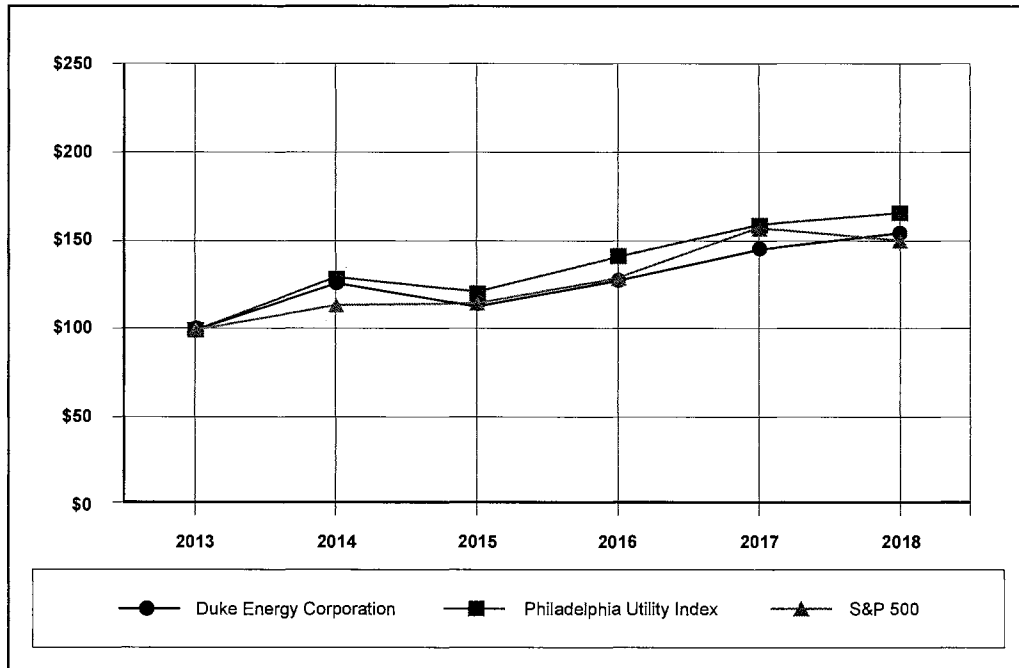
See Item 12 of Part III within this Annual Report for information regarding Securities Authorized for Issuance Under Equity Compensation Plans.

Issuer Purchases of Equity Securities for Fourth Quarter 2018

There were no repurchases of equity securities during the fourth quarter of 2018.

Stock Performance Graph

The following performance graph compares the cumulative total shareholder return from Duke Energy Corporation common stock, as compared with the S&P 500 and the Philadelphia Utility Index for the past five years. The graph assumes an initial investment of \$100 on December 31, 2013, in Duke Energy common stock, in the S&P 500 and in the Philadelphia Utility Index and that all dividends were reinvested. The stockholder return shown below for the five-year historical period may not be indicative of future performance.



NYSE CEO Certification

Duke Energy has filed the certification of its Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 as exhibits to this Annual Report on Form 10-K for the year ended December 31, 2018.

PART II

ITEM 6. SELECTED FINANCIAL DATA

The following table provides selected financial data for the years of 2014 through 2018. See also Item 7.

(in millions, except per share amounts)	2018	2017	2016	2015	2014
Statements of Operations^(a)					
Total operating revenues	\$ 24,521	\$ 23,565	\$ 22,743	\$ 22,371	\$ 22,509
Operating income	4,685	5,625	5,202	4,974	4,795
Income from continuing operations	2,625	3,070	2,578	2,654	2,538
Income (Loss) from discontinued operations, net of tax	19	(6)	(408)	177	(649)
Net income	2,644	3,064	2,170	2,831	1,889
Net income attributable to Duke Energy Corporation	2,666	3,059	2,152	2,816	1,883
Common Stock Data					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 3.73	\$ 4.37	\$ 3.71	\$ 3.80	\$ 3.58
Diluted	3.73	4.37	3.71	3.80	3.58
Income (Loss) from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.03	\$ (0.01)	\$ (0.60)	\$ 0.25	\$ (0.92)
Diluted	0.03	(0.01)	(0.60)	0.25	(0.92)
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 3.76	\$ 4.36	\$ 3.11	\$ 4.05	\$ 2.66
Diluted	3.76	4.36	3.11	4.05	2.66
Dividends declared per share of common stock	3.64	3.49	3.36	3.24	3.15
Balance Sheet					
Total assets	\$ 145,392	\$ 137,914	\$ 132,761	\$ 121,156	\$ 120,557
Long-term debt including capital leases, less current maturities	51,123	49,035	45,576	36,842	36,075

(a) Significant transactions reflected in the results above include: (i) regulatory and legislative charges related to Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and impairment charges in 2018 (see Notes 4, 11 and 12 to the Consolidated Financial Statements, "Regulatory Matters," "Goodwill and Intangible Assets" and "Investments in Unconsolidated Affiliates"); (ii) the sale of the International Disposal Group in 2016, including a loss on sale recorded within discontinued operations (see Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions"); (iii) the acquisition of Piedmont in 2016, including losses on interest rate swaps related to the acquisition financing (see Note 2); (iv) 2014 impairment related to the disposal of the Midwest Generation Disposal Group; (v) 2014 incremental tax expense resulting from the decision to repatriate all cumulative historical undistributed foreign earnings; (vi) 2014 increase in the litigation reserve related to a criminal investigation of the Dan River release.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Management's Discussion and Analysis includes financial information prepared in accordance with GAAP in the U.S., as well as certain non-GAAP financial measures such as adjusted earnings and adjusted earnings per share discussed below. Generally, a non-GAAP financial measure is a numerical measure of financial performance, financial position or cash flows that excludes (or includes) amounts that are included in (or excluded from) the most directly comparable measure calculated and presented in accordance with GAAP. The non-GAAP financial measures should be viewed as a supplement to, and not a substitute for, financial measures presented in accordance with GAAP. Non-GAAP measures as presented herein may not be comparable to similarly titled measures used by other companies.

The following combined Management's Discussion and Analysis of Financial Condition and Results of Operations is separately filed by Duke Energy Corporation (collectively with its subsidiaries, Duke Energy) and its subsidiaries Duke Energy Carolinas, LLC (Duke Energy Carolinas), Progress Energy, Inc. (Progress Energy), Duke Energy Progress, LLC (Duke Energy Progress), Duke Energy Florida, LLC (Duke Energy Florida), Duke Energy Ohio, Inc. (Duke Energy Ohio), Duke Energy Indiana, LLC (Duke Energy Indiana) and Piedmont Natural Gas Company, Inc. (Piedmont). However, none of the registrants make any representation as to information related solely to Duke Energy or the subsidiary registrants of Duke Energy other than itself. Subsequent to Duke Energy's acquisition of Piedmont on October 3, 2016, Piedmont is a wholly owned subsidiary of Duke Energy. The financial information for Duke Energy includes results of Piedmont subsequent to October 3, 2016. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding the acquisition.

DUKE ENERGY

Duke Energy is an energy company headquartered in Charlotte, North Carolina. Duke Energy operates in the U.S. primarily through its wholly owned subsidiaries, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of the Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Management's Discussion and Analysis should be read in conjunction with the Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

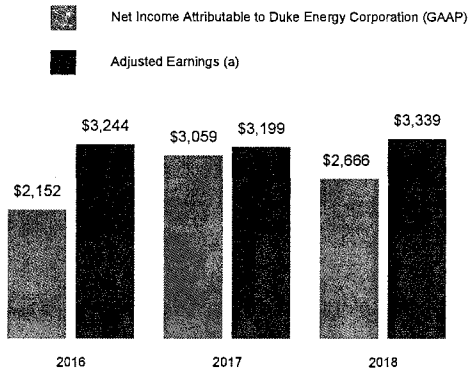
Executive Overview

At Duke Energy the fundamentals of our business are strong. In 2018, we met our near-term financial commitments and positioned the company for sustainable long-term growth. We are focused on a stable, predictable and regulated businesses portfolio to deliver a reliable dividend with 4 to 6 percent EPS growth through 2023. We have made progress advancing our long-term growth strategy that delivers value to our customers through investments in cleaner energy, grid modernization, natural gas infrastructure, and digital transformation, while also achieving constructive regulatory outcomes. The strength of our balance sheet is of vital importance to the cost-effective financing of our growth strategy, and in 2018 we took proactive steps to strengthen it by issuing \$2 billion of equity.

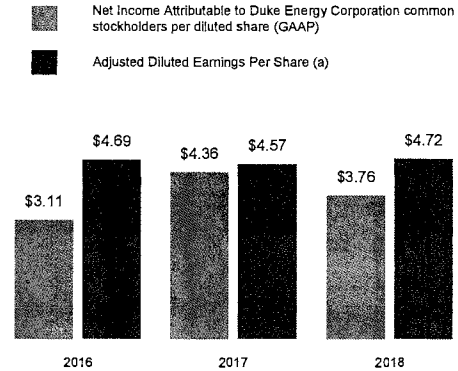
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Financial Results

Annual Earnings (in millions)



Annual Earnings Per Diluted Share



(a) See Results of Operations below for Duke Energy's definition of adjusted earnings and adjusted diluted earnings per share as well as a reconciliation of this non-GAAP financial measure to net income attributable to Duke Energy and net income attributable to Duke Energy per diluted share.

Duke Energy's 2018 GAAP reported earnings were impacted by favorable weather, improved residential volumes and ongoing cost management efforts, offset by charges which management believes are not indicative of ongoing performance, including regulatory and legislative items, impairments, a loss on the sale of a retired plant, and severance. See "Results of Operations" below for a detailed discussion of the consolidated results of operations and a detailed discussion of financial results for each of Duke Energy's reportable business segments, as well as Other.

2018 Areas of Focus and Accomplishments

Operational Excellence and Reliability. The safety of our workforce is a core value. Our employees delivered strong safety results in 2018, and we maintained our industry-leading performance levels from 2016 and 2017. The reliable and safe operation of our power plants, electric distribution system and natural gas infrastructure is foundational to our customers, our financial results and our credibility with stakeholders. Our nuclear and fossil/hydro generation fleets demonstrated strong performance, exceeding their respective reliability targets. Five of our six nuclear sites have achieved INPO 1 status, the industry's highest distinction. Our electric distribution system performed well throughout the year, though we see opportunities to reduce outage durations.

Storm Response and System Restoration. 2018 was a year of intense storm activity, with Hurricane Florence and Hurricane Michael delivering a significant impact to our jurisdictions. Employees and utility partners worked tirelessly to restore 3 million outages during the hurricane season. Our team restored 93 percent of outages within five days during Hurricane Florence and 90 percent of outages within three days during Hurricane Michael. Our ability to effectively handle all facets of the 2018 storm response efforts is a testament to our team's extensive preparation and coordination in advance of the storm, applying lessons learned from previous storms, and on-the-ground management throughout the restoration efforts.

Customer Satisfaction. Duke Energy continues to transform the customer experience through our use of customer data to better inform operational priorities and performance levels. This data-driven approach allows us to identify the investments that are the most important to the customer

experience. In 2018, we instituted more proactive communications, such as text alerts during outages, in response to customer expectations. Over time our work with data analytics will result in customer satisfaction improvement as measured through J.D. Power and other surveys.

Constructive Regulatory and Legislative Outcomes. One of our long-term strategic goals is to achieve modernized regulatory constructs in our jurisdictions. Modernized constructs provide benefits, which include improved earnings and cash flows through more timely recovery of investments, as well as stable pricing for customers. We achieved constructive regulatory outcomes in 2018 in North Carolina for both Duke Energy Carolinas and Duke Energy Progress, including the recovery of coal ash basin closure costs. The Ohio Comprehensive Settlement Agreement in 2018, approved by PUCO, was a favorable outcome that will enable the creation of a new PowerForward rider to recover costs associated with projects to modernize the grid and transform the customer experience. We are making progress in addressing tax reform across our jurisdictions, targeting solutions that provide benefits to customers and support the long-term credit quality of our utilities.

Cost Management and Efficiencies. Duke Energy has a demonstrated track record of driving efficiencies and productivity into the business, including merger integration and continuous improvement efforts. We continue to leverage new technology and data analytics to drive additional efficiencies across the business in response to a transforming landscape. In 2018, we established a digital transformation initiative that is tasked with identifying the best ways to use digital capabilities throughout our business.

Modernizing the Power Grid. Our grid improvement programs continue to be a key component of our growth strategy. Modernization of the electric grid, including smart meters, storm hardening, self-healing and targeted undergrounding helps to ensure the system is better prepared for severe weather, improves the system's reliability and flexibility, and provides better information and services for customers. Grid improvements enable successful storm response; for example, in the Carolinas, self-healing grid technologies rerouted power from damaged lines and systems to minimize outages. In 2018, we deployed 1.6 million smart meters resulting in 4.3 million customers having access to this technology across our regulated footprint.

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Generating Cleaner Energy. We advanced efforts to generate cleaner energy, including progress on several strategic investments during 2018. Overall, we have lowered our carbon emissions by over 30 percent since 2005, consistent with our goal to reduce carbon emissions by 40 percent by 2030. Two natural gas plants came online in 2018 and construction continues on a third one. In our Commercial Renewable business, our Shoreham solar facility came online in 2018.

Expanding the Natural Gas Platform. We continue to pursue natural gas infrastructure investments. We are working diligently to construct the ACP pipeline to bring low-cost gas supply and economic development opportunities to the Mid-Atlantic. While we navigate the impacts of permitting delays and court rulings, we remain steadfast in our commitment to this backbone infrastructure for the southeast U.S. In 2018, Piedmont announced plans to construct a new liquefied natural gas facility in Robeson County North Carolina on property Piedmont already owns. This investment will help Piedmont provide a reliable gas supply to customers during peak usage periods. We expect to begin construction in the summer of 2019.

Dividend Growth. In 2018, Duke Energy continued to grow the dividend payment to shareholders by approximately 4 percent. 2018 represented the 92nd consecutive year Duke Energy paid a cash dividend on its common stock.

Duke Energy Objectives – 2019 and Beyond

Duke Energy will continue to deliver exceptional value to customers, be an integral part of the communities in which we do business, and provide attractive returns to investors. We have an achievable, long-term strategy in place and it is producing tangible results, yet the industry in which we operate is becoming more and more dynamic. We are adjusting, where necessary, and accelerating our focus in key areas to ensure the company is well positioned to be successful for many decades into the future. As we look ahead to 2019, our plans include:

- Continuing to place the customer at the center of all that we do.
- Advancing the achievement of modernized regulatory constructs across all jurisdictions, including consideration of cost recovery models that break the link between load growth and earnings.
- Improving and strengthening the energy grid to provide customers with more control, convenience and communications, and make the grid more resilient to severe weather and ever-evolving cyber threats.
- Investing in both natural gas generation and infrastructure to support our growing gas system, as we replace coal units and continue to expand our LDC customer base in the Carolinas and Midwest.
- Increasing renewables, energy storage and next-generation demand-side management into our supply/demand resource plans, in pursuit of a growth strategy that leverages these resources to provide choices that our customers value.
- Modernizing the way we plan and build our generation, transmission, distribution and customer systems in a fully integrated way through Integrated System and Operations Planning to accommodate increased distributed energy resources.
- Transforming the business using multiple levers, including digital tools, to increase productivity and reinvest the proceeds into new growth opportunities, improved customer service, and lower bills for customers.

Results of Operations

Non-GAAP Measures

Management evaluates financial performance in part based on non-GAAP financial measures, including adjusted earnings and adjusted diluted EPS. These items represent income from continuing operations attributable to Duke Energy, adjusted for the dollar and per share impact of special items. As discussed below, special items include certain charges and credits, which management believes are not indicative of Duke Energy's ongoing performance. Management believes the presentation of adjusted earnings and adjusted diluted EPS provides useful information to investors, as it provides them with an additional relevant comparison of Duke Energy's performance across periods.

Management uses these non-GAAP financial measures for planning and forecasting, and for reporting financial results to the Board of Directors, employees, stockholders, analysts and investors. Adjusted diluted EPS is also used as a basis for employee incentive bonuses. The most directly comparable GAAP measures for adjusted earnings and adjusted diluted EPS are GAAP Reported Earnings and GAAP Reported EPS, respectively.

Special items included in the periods presented include the following, which management believes do not reflect ongoing costs:

- Costs to Achieve Mergers represents charges that result from strategic acquisitions.
- Regulatory and Legislative Impacts in 2018 represents charges related to the Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and the repeal of the South Carolina Base Load Review Act. For 2017, it represents charges related to the Levy nuclear project in Florida and the Mayo Zero Liquid Discharge and Sutton combustion turbine projects in North Carolina.
- Impairment Charges in 2018 represents an impairment at Citrus County CC, a goodwill impairment at Commercial Renewables and an other-than-temporary impairment of an investment in Constitution Pipeline Company, LLC. For 2017 and 2016, the charges represent goodwill and other-than-temporary asset impairments at Commercial Renewables.
- Sale of Retired Plant represents the loss associated with selling Beckjord, a nonregulated generating facility in Ohio.
- Impacts of the Tax Act represents amounts recognized related to the Tax Act.
- Severance Charges relate to companywide initiatives, excluding merger integration, to standardize processes and systems, leverage technology and workforce optimization.

Adjusted earnings also include the operating results of the International Disposal Group, which has been classified as discontinued operations. Management believes inclusion of the operating results of the International Disposal Group within adjusted earnings and adjusted diluted EPS results in a better reflection of Duke Energy's financial performance during the period.

Duke Energy's adjusted earnings and adjusted diluted EPS may not be comparable to similarly titled measures of another company because other companies may not calculate the measures in the same manner.

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Reconciliation of GAAP Reported Amounts to Adjusted Amounts

The following table presents a reconciliation of adjusted earnings and adjusted diluted EPS to the most directly comparable GAAP measures.

(in millions, except per share amounts)	Years Ended December 31,					
	2018		2017		2016	
	Earnings	EPS	Earnings	EPS	Earnings	EPS
GAAP Reported Earnings/EPS	\$ 2,666	\$ 3.76	\$ 3,059	\$ 4.36	\$ 2,152	\$ 3.11
Adjustments to Reported:						
Costs to Achieve Mergers ^(a)	65	0.09	64	0.09	329	0.48
Regulatory and Legislative Impacts ^(b)	202	0.29	98	0.14	—	—
Impairment Charges ^(c)	179	0.25	74	0.11	45	0.07
Sale of Retired Plant ^(d)	82	0.12	—	—	—	—
Impacts of the Tax Act ^(e)	20	0.03	(102)	(0.14)	—	—
Severance Charges ^(f)	144	0.21	—	—	57	0.08
Discontinued Operations ^(g)	(19)	(0.03)	6	0.01	661	0.95
Adjusted Earnings/Adjusted Diluted EPS	\$ 3,339	\$ 4.72	\$ 3,199	\$ 4.57	\$ 3,244	\$ 4.69

(a) Net of tax benefit of \$19 million in 2018, \$39 million in 2017, and \$194 million in 2016.

(b) Net of tax benefit of \$63 million in 2018 and \$50 million in 2017.

(c) Net of \$27 million tax benefit and \$2 million Noncontrolling Interests in 2018. Net of \$28 million tax benefit in 2017 and \$26 million in 2016.

(d) Net of \$25 million tax benefit.

(e) The Tax Act reduced the corporate income tax rate from 35 to 21 percent, effective January 1, 2018. As the tax change was enacted in 2017, Duke Energy was required to remeasure its existing deferred tax assets and liabilities at the lower rate at December 31, 2017. For Duke Energy's regulated operations, where the reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. For 2018, the amount represents a true up of existing regulatory liabilities related to the Tax Act. See Note 23 to the Consolidated Financial Statements, "Income Taxes" for more information.

(f) Net of tax benefit of \$43 million in 2018 and \$35 million in 2016.

(g) For 2016, includes a loss on sale of the International Disposal Group. Represents the GAAP reported Loss from Discontinued Operations, less the International Disposal Group operating results, which are included in adjusted earnings. For 2017 and 2018, amounts reflect adjustments related to the sale of the International Disposal Group, primarily related to estimated tax expense.

Year Ended December 31, 2018, as compared to 2017

Duke Energy's full-year 2018 GAAP Reported EPS was \$3.76 compared to \$4.36 for full-year 2017. In addition to the adjusted diluted EPS drivers discussed below, GAAP Reported EPS in 2018 was lower primarily due to regulatory and legislative impacts, impairment charges, severance charges and a loss on sale of a retired plant.

As discussed, management also evaluates financial performance based on adjusted earnings. Duke Energy's full-year 2018 adjusted diluted EPS was \$4.72 compared to \$4.57 for full-year 2017. The increase in adjusted diluted EPS was primarily due to:

- Higher regulated electric revenues due to favorable weather and higher retail sales volumes in the current year;
- Positive impacts from the North Carolina rate case orders; and
- Rider growth.

Partially offset by:

- Higher interest expense due to higher debt outstanding and higher interest rates;
- Higher depreciation and amortization expense at Electric Utilities and Infrastructure primarily due to rate base growth; and
- A reduced tax benefit on holding company interest as a result of the Tax Act.

Year Ended December 31, 2017, as compared to 2016

Duke Energy's full-year 2017 GAAP Reported EPS was \$4.36 compared to \$3.11 for full-year 2016. In addition to the adjusted diluted EPS drivers discussed below, GAAP Reported EPS in 2017 was higher primarily due to a \$0.14 benefit per share related to the Tax Act in 2017, lower costs to achieve

the Piedmont merger and a loss on sale and impairments associated with the sale of the International Disposal Group in 2016, partially offset by charges of \$0.14 related to regulatory settlements in Electric Utilities and Infrastructure.

As discussed, management also evaluates financial performance based on adjusted earnings. Duke Energy's full-year 2017 adjusted diluted EPS was \$4.57 compared to \$4.69 for full-year 2016. The decrease in adjusted diluted EPS was primarily due to:

- Lower regulated electric revenues due to less favorable weather in the current year, including lost revenues related to Hurricane Irma;
- The prior year operating results from the International Disposal Group, which was sold in December 2016. The 2016 operating results included a benefit from the valuation of deferred income taxes. See Note 23 to the Consolidated Financial Statements, "Income Taxes," for additional information;
- Higher financing costs, primarily due to the Piedmont acquisition; and
- Higher depreciation and amortization expense at Electric Utilities and Infrastructure primarily due to higher depreciable base.

Partially offset by:

- Higher regulated electric revenues from increased pricing and riders driven by new rates in Duke Energy Progress South Carolina, base rate adjustments in Florida and energy efficiency rider revenues in North Carolina, as well as growth in weather-normal retail volumes;
- Lower operations, maintenance and other expenses, net of amounts recoverable in rates, at Electric Utilities and Infrastructure resulting from ongoing cost efficiency efforts and lower year-to-date storm costs than the prior year; and
- Additional earnings from incremental investments in ACP and Sabal Trail natural gas pipelines.

PART II

SEGMENT RESULTS

The remaining information presented in this discussion of results of operations is on a GAAP basis. Management evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income includes intercompany revenues and expenses that are eliminated in the Consolidated Financial Statements.

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. See Note 3 to the Consolidated Financial Statements, "Business Segments," for additional information on Duke Energy's segment structure.

The Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35 to 21 percent, limits interest deductions outside of regulated utility operations, requires the normalization of excess deferred taxes associated

with property under the average rate assumption method as a prerequisite to qualifying for accelerated depreciation and repealed the federal manufacturing deduction. The Tax Act also repealed the corporate AMT and stipulates a refund of 50 percent of remaining AMT credit carryforwards (to the extent the credits exceed regular tax for the year) for tax years 2018, 2019 and 2020 with all remaining AMT credits to be refunded in tax year 2021.

As a result of the Tax Act, Duke Energy revalued its existing deferred tax assets and deferred tax liabilities as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred tax amounts. During the year ended December 31, 2018, Duke Energy recorded measurement period adjustments to the provisional estimate recorded as of December 31, 2017, in accordance with SAB 118. For Duke Energy's regulated operations, where the net reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information on the Tax Act's impact to the regulatory asset and liability accounts. The following table shows the expense (benefit) recorded on Duke Energy's Consolidated Statements of Operations.

(in millions)	Years Ended December 31,	
	2018	2017
Electric Utilities and Infrastructure ^(c)	\$ 24	\$ (231)
Gas Utilities and Infrastructure ^{(d)(e)}	1	(26)
Commercial Renewables	(3)	(442)
Other ^(f)	(2)	597
Total impact of the Tax Act^{(a)(b)(d)}	\$ 20	\$ (102)

(a) Except where noted below, amounts are included within Income Tax Expense From Continuing Operations on the Consolidated Statements of Operations.

(b) See Notes 4 and 23 to the Consolidated Financial Statements, "Regulatory Matters" and "Income Taxes," respectively, for information about the Tax Act's impact on Duke Energy's Consolidated Balance Sheets.

(c) Amount primarily relates to the 2017 remeasurement, and true up of that remeasurement in 2018, of net deferred tax liabilities that are excluded for ratemaking purposes related to abandoned or impaired assets and certain wholesale fixed rate contracts.

(d) 2017 amount includes a \$16 million expense recorded within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations.

(e) 2017 amount primarily relates to the remeasurement of net deferred tax liabilities related to equity method investments.

(f) 2017 amount primarily relates to the remeasurement of Foreign Tax Credits, federal NOLs and nonregulated deferred tax assets.

Electric Utilities and Infrastructure

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 22,273	\$ 21,331	\$ 942	\$ 21,366	\$ (35)
Operating Expenses					
Fuel used in electric generation and purchased power	6,917	6,379	538	6,595	(216)
Operations, maintenance and other	5,631	5,360	271	5,433	(73)
Depreciation and amortization	3,523	3,010	513	2,897	113
Property and other taxes	1,134	1,079	55	1,021	58
Impairment charges	309	176	133	16	160
Total operating expenses	17,514	16,004	1,510	15,962	42
Gains on Sales of Other Assets and Other, net	8	6	2	—	6
Operating Income	4,767	5,333	(566)	5,404	(71)
Other Income and Expenses, net	378	472	(94)	444	28
Interest Expense	1,288	1,240	48	1,136	104
Income Before Income Taxes	3,857	4,565	(708)	4,712	(147)
Income Tax Expense	799	1,355	(556)	1,672	(317)
Segment Income	\$ 3,058	\$ 3,210	\$ (152)	\$ 3,040	\$ 170
Duke Energy Carolinas Gigawatt-hours (GWh) sales	92,280	87,305	4,975	88,545	(1,240)
Duke Energy Progress GWh sales	69,331	66,822	2,509	69,049	(2,227)
Duke Energy Florida GWh sales	41,559	40,591	968	40,404	187
Duke Energy Ohio GWh sales	25,329	24,639	690	25,163	(524)
Duke Energy Indiana GWh sales	34,229	33,145	1,084	34,368	(1,223)
Total Electric Utilities and Infrastructure GWh sales	262,728	252,502	10,226	257,529	(5,027)
Net proportional MW capacity in operation	49,684	48,828	856	49,295	(467)

PART II

Year Ended December 31, 2018, as compared to 2017

Electric Utilities and Infrastructure's results were impacted by higher legislative and regulatory charges compared to the prior year and higher depreciation from a growing asset base, partially offset by favorable weather in the current year, improved retail volumes, lower income tax expense and a positive net contribution from the Duke Energy Progress and Duke Energy Carolinas North Carolina rate cases. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$577 million increase in fuel related revenues due to higher sales volumes driven primarily by favorable weather in the current year, and increases in fuel rates billed to customers, which reflects higher average fuel prices;
- a \$331 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year;
- a \$236 million increase in retail pricing primarily due to the Duke Energy Progress and Duke Energy Carolinas North Carolina rate cases and Duke Energy Florida base rate adjustments related to generation assets being placed into service;
- a \$109 million increase in wholesale power revenues, net of fuel, primarily due to higher recovery of coal ash costs at Duke Energy Progress and Duke Energy Carolinas, partially offset by contracts that expired in the prior year at Duke Energy Indiana and customer refunds in the current year at Duke Energy Carolinas related to a FERC order on a complaint filed by PMPA;
- an \$82 million increase in weather-normal retail sales volumes driven by residential growth;
- a \$73 million net increase in retail rider revenues, primarily related to capital investment riders at Duke Energy Indiana and Duke Energy Ohio, partially offset by a net decrease in rider revenues related to the implementation of new base rates at Duke Energy Carolinas and Duke Energy Progress; and
- a \$49 million increase in other revenues at Duke Energy Carolinas primarily due to the recognition of previously deferred revenues associated with storm restoration costs in South Carolina and favorable transmission revenues.

Partially offset by:

- a \$578 million decrease in retail and wholesale sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven primarily by:

- a \$538 million increase in fuel used in electric generation and purchased power due to higher sales and higher amortization of deferred fuel expenses;
- a \$513 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs, additional plant in service and new depreciation rates associated with the Duke Energy Progress and Duke Energy Carolinas North Carolina rate cases;
- a \$271 million increase in operation, maintenance and other expense primarily due to impacts associated with the Duke Energy Progress North Carolina rate case and higher storm costs, partially offset by a FERC approved settlement refund of certain transmission costs previously billed by PJM; and

- a \$133 million increase in impairment charges primarily due to the impacts associated with the Duke Energy Carolinas and Duke Energy Progress North Carolina rates cases and the Duke Energy Florida Citrus County CC impairments in the current year, offset by the write-off of remaining unrecovered Levy Nuclear project costs at Duke Energy Florida in the prior year.

Other Income and Expenses, net. The decrease was primarily due to lower post in-service equity returns for projects that had been completed prior to being reflected in customer rates at Duke Energy Carolinas and lower income from non-service components of employee benefit costs in the current year at Duke Energy Progress and Duke Energy Florida. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Interest Expense. The variance was due to higher debt outstanding in the current year, partially offset by lower deferred debt costs on major projects.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act, a decrease in pretax income and the impact of the Tax Act in the prior year. The ETRs for the years ended December 31, 2018, and 2017 were 20.7 percent and 29.7 percent, respectively. The decrease in the ETR was primarily due to the lower statutory federal corporate tax rate under the Tax Act and the amortization of excess deferred taxes partially offset by the impact of the Tax Act in the prior year. See the Tax Act section above for additional information.

Year Ended December 31, 2017, as compared to 2016

Electric Utilities and Infrastructure's results were impacted by the Tax Act, growth from investments, lower operations and maintenance expense and higher weather-normal retail sales volumes, partially offset by less favorable weather, impairment charges due to regulatory settlements, increased depreciation and amortization, higher interest expense and higher property and other taxes. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$292 million decrease in retail sales, net of fuel revenue, due to less favorable weather in the current year; and
- a \$235 million decrease in fuel revenues driven by lower retail sales volumes, lower fuel prices included in rates and changes in the generation mix.

Partially offset by:

- a \$364 million increase in rider revenues including increased revenues related to energy efficiency programs, Duke Energy Florida's nuclear asset securitization, Midwest transmission and distribution capital investments and Duke Energy Indiana's Edwardsport IGCC plant, as well as an increase in retail pricing due to base rate adjustments for Duke Energy Florida's Osprey acquisition and Hines Chillers and the Duke Energy Progress South Carolina rate case;
- an \$86 million increase in weather-normal sales volumes to customers; and
- a \$26 million increase in other revenues primarily due to favorable transmission revenues.

PART II

Operating Expenses. The variance was driven primarily by:

- a \$160 million increase in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the current year at Duke Energy Florida and the disallowance from rate base of certain projects at the Mayo and Sutton plants in the current year at Duke Energy Progress related to the partial settlement in the North Carolina rate case;
- a \$113 million increase in depreciation and amortization expense primarily due to additional plant in service; and
- a \$58 million increase in property and other taxes primarily due to higher property taxes.

Partially offset by:

- a \$216 million decrease in fuel expense (including purchased power) primarily due to lower retail sales and changes in the generation mix; and
- a \$73 million decrease in operation, maintenance and other expense primarily due to lower plant outage, storm restoration and labor and benefits costs partially offset by higher operational costs that are recoverable in rates.

Interest Expense. The variance was due to higher debt outstanding in the current year and Duke Energy Florida's Crystal River Unit 3 regulatory asset debt return ending in June 2016 upon securitization.

Income Tax Expense. The variance was primarily due to a decrease in pretax income and the impact of the Tax Act. The effective tax rates for the years ended December 31, 2017, and 2016 were 29.7 percent and 35.5 percent, respectively. The decrease in the effective tax rate was primarily due to the impact of the Tax Act. See the Tax Act section above for additional information.

Matters Impacting Future Electric Utilities and Infrastructure Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low-risk classifications for these impoundments, indicating that Duke Energy Carolinas and Duke Energy Progress have satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy is a party to multiple lawsuits and could be subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. In addition, the orders issued in the Duke Energy Carolinas and Duke Energy Progress North Carolinas rate cases supporting recovery of past coal ash remediation costs have been appealed by various parties. The outcome of these appeals, lawsuits and potential fines and penalties

could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position, and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

On June 22, 2018, Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. Duke Energy Carolinas may petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. While Duke Energy Progress did not request recovery of these costs in its most recent case with the NCUC, Duke Energy Progress may request recovery of certain grid modernization costs in future regulatory proceedings. Electric Utilities and Infrastructure's results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

During the last half of 2018, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida's service territories were impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages to the service territories of Duke Energy Carolinas and Duke Energy Progress. Duke Energy Florida's service territory was also impacted by Hurricane Michael, a Category 4 hurricane and the most powerful storm to hit the Florida Panhandle in recorded history. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Carolinas and Duke Energy Progress filed with the NCUC petitions for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for other storms, and on January 30, 2019, the PSCSC issued a directive approving the deferral request. Duke Energy Florida anticipates filing a petition in the first half of 2019 with the FPSC to recover incremental storm costs consistent with the provisions in its 2017 Settlement. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of recently approved rate cases for Duke Energy Carolinas and Duke Energy Progress are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. On May 31, 2018, Duke Energy Florida filed for recovery of the storm costs. Storm costs are currently expected to be fully recovered by approximately mid-2021. The commission has scheduled the hearing to begin on May 21, 2019. An order disallowing recovery of these costs could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

PART II

Gas Utilities and Infrastructure

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 1,881	\$ 1,836	\$ 45	\$ 901	\$ 935
Operating Expenses					
Cost of natural gas	697	632	65	265	367
Operation, maintenance and other	421	383	38	184	199
Depreciation and amortization	245	231	14	115	116
Property and other taxes	107	106	1	70	36
Total operating expenses	1,470	1,352	118	634	718
(Loss) Gains on Sales of Other Assets and Other, net	—	—	—	(1)	1
Operating Income	411	484	(73)	266	218
Other Income and Expenses, net	47	56	(9)	22	34
Interest Expense	106	105	1	46	59
Income Before Income Taxes	352	435	(83)	242	193
Income Tax Expense	78	116	(38)	90	26
Segment Income	\$ 274	\$ 319	\$ (45)	\$ 152	\$ 167
Piedmont LDC throughput (dekatherms) ^(a)	557,145,128	468,259,777	88,885,351	120,908,508	347,351,269
Duke Energy Midwest LDC throughput (MCF)	90,604,833	80,934,836	9,669,997	81,870,489	(935,653)

(a) Includes throughput subsequent to Duke Energy's acquisition of Piedmont on October 3, 2016.

Year Ended December 31, 2018, as compared to 2017

Gas Utilities and Infrastructure's results were primarily impacted by the OTTI recorded on the Constitution investment and higher operation, maintenance and other expenses, partially offset by favorable price adjustments, customer growth and other income. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$76 million increase primarily due to higher natural gas costs passed through to customers as a result of higher volumes sold driven primarily by weather and higher natural gas prices; and
- a \$37 million increase primarily due to residential and commercial customer revenue, net of natural gas costs passed through to customers, due to customer growth and IMR rate adjustments and new power generation customers.

Partially offset by:

- a \$69 million decrease primarily due to revenues subject to refund to customers associated with the lower statutory corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven primarily by:

- a \$65 million increase in natural gas costs primarily due to higher costs passed through to customers, as a result of a higher natural gas prices;

- a \$38 million increase in operations, maintenance, and other expense primarily due to increased shared services, costs to achieve merger expenses and a pension settlement charge at Piedmont in 2017; and
- a \$14 million increase in depreciation and amortization expense due to additional plant in service and higher amortization of software costs.

Other Income and Expenses, net. The variance was driven primarily by:

- a \$55 million impairment recorded for the investment in Constitution in 2018.

Partially offset by:

- a \$25 million increase in non-service components of employee benefit costs in 2018. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans"; and
- a \$20 million increase in equity earnings from pipeline investments.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act, a decrease in pretax income and the impact of the Tax Act in the prior year. The ETRs for the years ended December 31, 2018, and 2017 were 22.2 percent and 26.7 percent, respectively. The decrease in the ETR was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the impact of the Tax Act in the prior year. See the Tax Act section above for additional information.

PART II

Year Ended December 31, 2017, as compared to 2016

Gas Utilities and Infrastructure's higher results were primarily due to the inclusion of Piedmont's earnings in the current year as a result of Duke Energy's acquisition of Piedmont on October 3, 2016, as well as additional equity earnings from investments in the ACP and Sabal Trail pipelines.

Operating Revenues. The variance was driven primarily by:

- an \$884 million increase in operating revenues due to the inclusion of Piedmont's operating revenues beginning in October 2016; and
- a \$47 million increase in Piedmont's fourth quarter results due to colder weather, higher natural gas prices, IMR rate adjustments, customer growth and new power generation customers.

Operating Expenses. The variance was driven primarily by:

- a \$686 million increase in operating expenses due to the inclusion of Piedmont's operating expenses beginning in October 2016; and
- a \$34 million increase in Piedmont's fourth quarter results primarily due to higher natural gas costs passed through to customers due to the higher price per dekatherm of natural gas.

Other Income and Expenses, net. The increase was driven primarily by higher equity earnings from pipeline investments.

Interest Expense. The variance was primarily due to the inclusion of Piedmont's interest expense beginning in October 2016.

Income Tax Expense. The variance was primarily due to an increase in pretax income due to the inclusion of Piedmont's earnings beginning in October

2016, partially offset by prior period true ups. The effective tax rates for the years ended December 31, 2017, and 2016 were 26.7 percent and 37.2 percent, respectively. The decrease in the effective tax rate was primarily due to the prior period true ups and the impact of the Tax Act. See the Tax Act section above for additional information.

Matters Impacting Future Gas Utilities and Infrastructure Results

Gas Utilities and Infrastructure has a 47 percent ownership interest in ACP, which is building an approximately 600-mile interstate natural gas pipeline intended to transport diverse natural gas supplies into southeastern markets. Affected states (West Virginia, Virginia and North Carolina) have issued certain necessary permits; the project remains subject to other pending federal and state approvals, which will allow full construction activities to begin. In 2018, FERC issued a series of Notices to Proceed, which authorized the project to begin certain construction-related activities along the pipeline route. Project cost estimates are a range of \$7.0 billion to \$7.8 billion, excluding financing costs. ACP expects to achieve a late 2020 in-service date for key segments of the project, while it expects a remainder to extend into 2021. Project construction activities, schedule and final costs are subject to uncertainty due to abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions and risks that could result in potential higher project costs, a potential delay in the targeted in-service dates and potential impairment charges. ACP and Duke Energy will continue to consider their options with respect to the foregoing in light of their existing contractual and legal obligations. See Notes 4 and 12 to the Consolidated Financial Statements, "Regulatory Matters" and "Investments in Unconsolidated Affiliates," respectively, for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

Commercial Renewables

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 477	\$ 460	\$ 17	\$ 484	\$ (24)
Operating Expenses					
Operation, maintenance and other	304	267	37	337	(70)
Depreciation and amortization	155	155	—	130	25
Property and other taxes	25	33	(8)	25	8
Impairment charges	93	99	(6)	—	99
Total operating expenses	577	554	23	492	62
(Loss) Gains on Sales of Other Assets and Other, net	(1)	1	(2)	5	(4)
Operating Loss	(101)	(93)	(8)	(3)	(90)
Other Income and Expenses, net	23	(12)	35	(83)	71
Interest Expense	88	87	1	53	34
Loss Before Income Taxes	(166)	(192)	26	(139)	(53)
Income Tax Benefit	(147)	(628)	481	(160)	(468)
Less: Loss Attributable to Noncontrolling Interests	(28)	(5)	(23)	(2)	(3)
Segment Income	\$ 9	\$ 441	\$ (432)	\$ 23	\$ 418
Renewable plant production, GWh	8,522	8,260	262	7,446	814
Net proportional MW capacity in operation ^(a)	2,991	2,907	84	2,892	15

(a) Certain projects are included in tax-equity structures where investors have differing interests in the project's economic attributes. In 2018, 100 percent of the tax-equity project's capacity is included in the table above.

PART II

Year Ended December 31, 2018, as compared to 2017

Commercial Renewables' results were unfavorably impacted by the higher tax benefit in 2017 from the Tax Act. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The increase in revenues was primarily due to an increase in the number of EPC agreements at REC Solar, partially offset by unfavorable wind portfolio revenue.

Operating Expenses. The increase in operating expenses was primarily due to an increase in the number of EPC agreements at REC Solar, higher wind portfolio expenses and higher solar development costs, partially offset by lower property taxes due to non-recurring property tax payments made in the prior year and lower impairment charges.

Other Income and Expenses, net. The favorable variance in other income and expenses was primarily due to the bankruptcy court approved NAW and FES settlement agreement, which allowed retention of previously collected cash collateral under the PPAs, sale of the FES unsecured claim, impairment of certain cost investments in the prior year and lower equity losses in the current year.

Income Tax Benefit. The decrease in tax benefit in 2018 was primarily due to the one-time impact of the Tax Act in 2017 and lower statutory federal corporate tax rate under the Tax Act. See the Tax Act section above for additional information.

Loss Attributable to Noncontrolling Interests. The increase is primarily driven by the new tax-equity structures entered into during 2018.

Year Ended December 31, 2017, as compared to 2016

Commercial Renewables' higher earnings were primarily due to the Tax Act, partially offset by pretax impairment charges. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The decrease was primarily due to lower EPC revenues from REC Solar.

Operating Expenses. The increase was primarily due to a \$99 million in pretax impairment charges in 2017 related to a wholly owned non-contracted wind project and other investments and higher expenses associated with new wind and solar projects, partially offset by lower operations and maintenance expense at REC Solar due to fewer projects under construction. See Notes 10 and 11 to the Consolidated Financial Statements, "Property, Plant and Equipment" and "Goodwill and Intangible Assets," respectively, for additional information.

Other Income and Expenses, net. The variance was primarily due to a \$71 million pretax impairment charge in 2016 related to certain equity method investments. For additional information, see Note 12 to the Consolidated Financial Statements, "Investments in Unconsolidated Affiliates."

Interest Expense. The variance was primarily due to new project financings and less capitalized interest due to fewer projects under construction.

Income Tax Benefit. The variance was primarily due to the impact of the Tax Act and higher PTCs, partially offset by lower ITCs. See the Tax Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Commercial Renewables Results

Persistently low market pricing for wind resources, primarily in the Electric Reliability Council of Texas West and PJM West markets and the future expiration of tax incentives including ITCs and PTCs could result in adverse impacts to the future results of operations, financial position and cash flows of Commercial Renewables.

On September 26, 2018, Duke Energy announced it is seeking a minority investor for the commercial renewables business. Duke Energy will continue to develop projects, grow its portfolio and manage its renewables assets. Duke Energy Renewable Services, an operations and maintenance business for third-party customers, and REC Solar are not included in the potential transaction. A sale of a minority interest is dependent on a number of factors and cannot be predicted at this time.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

Other

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 89	\$ 138	\$ (49)	\$ 117	\$ 21
Operating Expenses					
Fuel used in electric generation and purchased power	—	58	(58)	51	7
Operation, maintenance and other	214	46	168	371	(325)
Depreciation and amortization	152	131	21	152	(21)
Property and other taxes	14	14	—	28	(14)
Impairment charges	—	7	(7)	2	5
Total operating expenses	380	256	124	604	(348)
(Losses) Gains on Sales of Other Assets and Other, net	(96)	21	(117)	23	(2)
Operating Loss	(387)	(97)	(290)	(464)	367
Other Income and Expenses, net	73	129	(56)	75	54
Interest Expense	657	574	83	693	(119)
Loss Before Income Taxes	(971)	(542)	(429)	(1,082)	540
Income Tax (Benefit) Expense	(282)	353	(635)	(446)	799
Less: Net Income Attributable to Noncontrolling Interests	5	10	(5)	9	1
Net Loss	\$ (694)	\$ (905)	\$ 211	\$ (645)	\$ (260)

PART II

Year Ended December 31, 2018, as compared to 2017

Other's lower net loss was driven by prior year impacts from the Tax Act, partially offset by severance charges, loss on the sale of the retired Beckjord station, higher interest expense and prior year proceeds resulting from the settlement of the shareholder litigation related to the Progress Energy merger. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The decrease was primarily due to prior year revenues related to Duke Energy Ohio's entitlement of capacity and energy from OVEC's power plants. For the year ended December 31, 2018, the revenues and related expenses for OVEC are reflected in the Electric Utilities and Infrastructure segment due to the PUCO Order that approved Duke Energy to recover or credit amounts through Rider PSR. These amounts are deemed immaterial. Therefore, no prior period amounts were restated. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information.

Operating Expenses. The increase was primarily due to severance charges related to a corporate initiative partially offset by prior year fuel expense related to OVEC, which is reflected in the Electric Utilities and Infrastructure segment for year ended December 31, 2018. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information.

(Losses) Gains on Sales of Other Assets and Other, net. The variance was driven by the loss on sale of the retired Beckjord station, a nonregulated facility retired during 2014, including the transfer of coal ash basins and other real property and indemnification from all potential future claims related to the property, whether arising under environmental laws or otherwise.

Other Income and Expenses, net. The variance was primarily due to insurance proceeds received in the prior year resulting from settlement of the shareholder litigation related to the Progress Energy merger and lower returns on investments that fund certain employee benefit obligations.

Interest Expense. The increase was primarily due to an increase in long-term debt as well as higher interest rates on short-term debt.

Income Tax (Benefit) Expense. The variance was primarily due to the prior year impact of the Tax Act and an increase in pretax loss. See the Tax Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Year Ended December 31, 2017, as compared to 2016

Other's higher net loss was driven by the Tax Act, partially offset by prior year losses on forward-starting interest rate swaps and other costs related to the Piedmont acquisition, decreased severance charges, donations to the Duke Energy Foundation in 2016 and insurance proceeds resulting from settlement of the shareholder litigation related to the Progress Energy merger. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The increase was primarily due to higher OVEC revenues and prior year customer credits related to Piedmont merger commitments. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Operating Expenses. The decrease was primarily due to lower transaction and integration costs associated with the Piedmont acquisition, prior year severance charges related to cost savings initiatives, donations to the Duke Energy Foundation in 2016 as well as prior year depreciation expense and other integration costs related to the Progress Energy merger. The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Other Income and Expenses, net. The increase was primarily driven by insurance proceeds resulting from settlement of the shareholder litigation related to the Progress Energy merger, higher earnings from the equity method investment in NMC and increased returns on investments that fund certain employee benefit obligations.

Interest Expense. The decrease was primarily due to prior year losses on forward-starting interest rate swaps related to Piedmont pre-acquisition financing, partially offset by higher interest costs on \$3.75 billion of debt issued in August 2016 to fund the acquisition. For additional information see Notes 2, 6 and 14 to the Consolidated Financial Statements, "Acquisitions and Dispositions," "Debt and Credit Facilities" and "Derivatives and Hedging," respectively.

Income Tax Benefit. The variance was primarily due to the impact of the Tax Act and a decrease in pretax loss. See the Tax Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Other Results

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

INCOME (LOSS) FROM DISCONTINUED OPERATIONS, NET OF TAX

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Income (Loss) From Discontinued Operations, net of tax	\$ 19	\$ (6)	\$ 25	\$ (408)	\$ 402

Year Ended December 31, 2018, as compared to 2017

The variance was primarily driven by tax adjustments related to the International Disposal Groups. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Year Ended December 31, 2017, as compared to 2016

The variance was primarily driven by the prior year loss on the disposal of Duke Energy's Latin American generation business and an impairment charge related to certain assets in Central America, partially offset by a tax benefit related to historic unremitted foreign earnings and immaterial out of period tax adjustments unrelated to the International Disposal Group. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

PART II

SUBSIDIARY REGISTRANTS

As a result of the Tax Act, the Subsidiary Registrants revalued their deferred tax assets and deferred tax liabilities, as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred tax amounts. During the year ended December 31, 2018, the Subsidiary Registrants recorded measurement period adjustments to the provisional estimate recorded as of December 31, 2017, in accordance with SAB 118. For the Subsidiary Registrants' regulated operations, where the net reduction in

the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information on the Tax Act's impact to the regulatory asset and liability accounts. The change in each Subsidiary Registrant's effective tax rate for the year ended December 31, 2018, was primarily due to the impact of the Tax Act, unless noted below.

The following table shows the expense (benefit) recorded on the Subsidiary Registrant's Consolidated Statements of Operations and Comprehensive Income, and the effective tax rate for each Subsidiary Registrant.

(in millions)	Impacts of the Tax Act ^{(a)(b)}		Effective Tax Rate	
	Years Ended December 31,		Years Ended December 31,	
	2018	2017	2018	2017
Duke Energy Carolinas	\$ 1	\$ 15	22.1%	34.9%
Progress Energy	25	(246) ^(c)	17.4%	17.2%
Duke Energy Progress	19	(40) ^(d)	19.3%	29.0%
Duke Energy Florida	—	(226) ^(e)	15.4%	6.1%
Duke Energy Ohio	2	(23) ^(f)	19.6%	23.4%
Duke Energy Indiana	—	55 ^(g)	24.6%	46.0%
Piedmont	—	(2) ^{(h)(i)}	22.3%	30.8%

- (a) Except where noted below, amounts are included within Income Tax Expense From Continuing Operations or Income Tax Expense on the Consolidated Statements of Operations and Comprehensive Income.
(b) See Notes 4 and 23 to the Consolidated Financial Statements, "Regulatory Matters" and "Income Taxes," respectively, for information about the Tax Act's impact on Duke Energy's Consolidated Balance Sheets.
(c) 2017 amount primarily relates to the remeasurement of deferred tax liabilities that are excluded for ratemaking purposes related to abandoned assets and certain wholesale fixed rate contracts.
(d) 2017 amount primarily relates to the remeasurement of deferred tax liabilities of certain wholesale fixed rate contracts.
(e) 2017 amount primarily relates to the remeasurement of deferred tax assets that are excluded for ratemaking purposes related to a prior transfer of certain electric generating assets.
(f) 2017 amount primarily relates to the remeasurement of deferred tax liabilities that are excluded for ratemaking purposes related to impaired assets.
(g) 2017 amount includes a \$16 million expense recorded within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statements of Operations and Comprehensive Income.

DUKE ENERGY CAROLINAS

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Carolinas is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 7,300	\$ 7,302	\$ (2)
Operating Expenses			
Fuel used in electric generation and purchased power	1,821	1,822	(1)
Operation, maintenance and other	2,130	2,021	109
Depreciation and amortization	1,201	1,090	111
Property and other taxes	295	281	14
Impairment charges	192	—	192
Total operating expenses	5,639	5,214	425
(Losses) Gains on Sales of Other Assets and Other, net	(1)	1	(2)
Operating Income	1,660	2,089	(429)
Other Income and Expenses, net	153	199	(46)
Interest Expense	439	422	17
Income Before Income Taxes	1,374	1,866	(492)
Income Tax Expense	303	652	(349)
Net Income	\$ 1,071	\$ 1,214	\$ (143)

PART II

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Carolinas. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	11.7%	(4.8)%
General service sales	4.5%	(1.8)%
Industrial sales	(0.3)%	(0.8)%
Wholesale power sales	12.5%	6.3%
Joint dispatch sales	23.1%	18.2%
Total sales	5.7%	(1.4)%
Average number of customers	1.5%	1.5%

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$263 million decrease in retail sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act;
- a \$68 million decrease in retail rider revenues primarily related to the implementation of new base rates; and
- an \$8 million decrease in wholesale power revenues, net of sharing and fuel, primarily due to wholesale customer refunds in the current year related to a FERC order on a complaint filed by PMPA, partially offset by higher revenues related to recovery of coal ash costs.

Partially offset by:

- a \$169 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year;
- an \$83 million increase in retail pricing from impacts of the North Carolina rate case;
- a \$49 million increase in other revenues primarily due to the recognition of previously deferred revenues associated with storm restoration costs in South Carolina and favorable transmission revenues; and
- a \$36 million increase in weather-normal retail sales volumes.

Operating Expenses. The variance was driven primarily by:

- a \$192 million increase in impairment charges primarily due to the impacts of the North Carolina rate order and charges related to coal ash costs in South Carolina;
- a \$111 million increase in depreciation and amortization expense primarily due to additional plant in service, new depreciation rates associated with the North Carolina rate case and higher amortization of deferred coal ash costs, partially offset by lower amortization of certain regulatory assets; and
- a \$109 million increase in operations, maintenance and other expense primarily due to severance charges.

Other Income and Expenses, net. The variance was primarily due to lower AFUDC equity related to the Lee Nuclear Project and W.S. Lee CC and a decrease in recognition of post in-service equity returns for projects that had been completed prior to being reflected in customer rates.

Interest Expense. The variance was primarily due to higher debt outstanding in the current year.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act. The ETRs for the years ended December 31, 2018, and 2017 were 22.1 percent and 34.9 percent, respectively. The decrease in the ETR was primarily due to the lower statutory federal corporate tax rate under the Tax Act and the amortization of state excess deferred taxes.

Matters Impacting Future Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low-risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low risk classifications for these impoundments, indicating that Duke Energy Carolinas had satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Duke Energy Carolinas' results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Carolinas is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. In addition, the order issued in the Duke Energy Carolinas North Carolina rate case supporting recovery of past coal ash remediation costs has been appealed by various parties. The outcome of these appeals, lawsuits, fines and penalties could have an adverse impact on Duke Energy Carolinas' results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

On June 22, 2018, Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. Duke Energy Carolinas may petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. Duke Energy Carolinas' results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

PART II

During the last half of 2018, Duke Energy Carolinas' service territory was impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages in the service territory. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Carolinas filed with the NCUC a petition for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Duke Energy Carolinas' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of the recently approved rate case for Duke Energy Carolinas are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Duke Energy Carolinas' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

PROGRESS ENERGY

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Progress Energy is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 10,728	\$ 9,783	\$ 945
Operating Expenses			
Fuel used in electric generation and purchased power	3,976	3,417	559
Operation, maintenance and other	2,613	2,301	312
Depreciation and amortization	1,619	1,285	334
Property and other taxes	529	503	26
Impairment charges	87	156	(69)
Total operating expenses	8,824	7,662	1,162
Gains on Sales of Other Assets and Other, net	24	26	(2)
Operating Income	1,928	2,147	(219)
Other Income and Expenses, net	165	209	(44)
Interest Expense	842	824	18
Income Before Income Taxes	1,251	1,532	(281)
Income Tax Expense	218	264	(46)
Net Income	1,033	1,268	(235)
Less: Net Income Attributable to Noncontrolling Interests	6	10	(4)
Net Income Attributable to Parent	\$ 1,027	\$ 1,258	\$ (231)

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$614 million increase in fuel and capacity revenues primarily due to an increase in fuel and capacity rates billed to retail customers and increased demand;
- a \$149 million increase in retail pricing due to the impacts of the Duke Energy Progress North Carolina and South Carolina rate cases and Duke Energy Florida base rate adjustments related to generation assets being placed into service;
- a \$108 million increase in retail sales due to favorable weather in the current year, net of lost revenue impacts associated with Hurricane Irma in 2017 and Hurricane Florence in 2018;

- a \$96 million increase in wholesale power revenues, net of fuel, primarily due to recovery of coal ash costs and higher peak demand at Duke Energy Progress;
- a \$34 million net increase in retail rider revenues in conjunction with the implementation of new base rates at Duke Energy Progress; and
- a \$47 million increase in weather-normal retail sales volumes.

Partially offset by:

- a \$119 million decrease in retail sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act at Duke Energy Progress.

PART II

Operating Expenses. The variance was driven primarily by:

- a \$559 million increase in fuel used in electric generation and purchased power primarily due to higher amortization of deferred fuel and capacity expenses, increased demand and changes in generation mix;
- a \$334 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs and new depreciation rates associated with the North Carolina rate case at Duke Energy Progress, and accelerated depreciation of Crystal River Units 4 and 5 at Duke Energy Florida;
- a \$312 million increase in operation, maintenance and other expense primarily due to higher costs related to storms, vegetation management costs and severance charges; and
- a \$26 million increase in property and other taxes primarily due to higher revenue related taxes at Duke Energy Florida.

Partially offset by:

- a \$69 million decrease in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the prior year, offset by the current year impairment of the Citrus County CC at Duke Energy Florida and the impacts associated with the North Carolina rate case at Duke Energy Progress.

Other Income and Expenses, net. The variance was primarily due to lower income from non-service components of employee benefit costs in the current year at Duke Energy Progress and Duke Energy Florida. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Interest Expense. The variance was primarily due to new debt issuances at Duke Energy Progress.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the favorable impact of the Tax Act in the prior year. The effective tax rate for the years ended December 31, 2018, and 2017 were 17.4 percent and 17.2 percent, respectively. The change in the effective tax rate was primarily due to the favorable impact of the Tax Act in the prior year mostly offset by the lower statutory federal corporate tax rate under the Tax Act and the amortization of federal and state excess deferred taxes in the current year.

Matters Impacting Future Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low-risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low risk classifications for these impoundments, indicating that Progress Energy had satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Progress Energy's results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Progress is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. As noted above, the order issued in the Duke Energy Progress North Carolinas rate case supporting recovery of past coal ash remediation costs has been appealed by various parties. The outcome of these appeals, lawsuits, fines and penalties could have an adverse impact on Progress Energy's results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. The NCUC did allow Duke Energy Carolinas to petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. While Duke Energy Progress did not request recovery of these costs in its most recent case with the NCUC, Duke Energy Progress may request recovery of certain grid modernization costs in future regulatory proceedings. If the NCUC were to rule similarly, Progress Energy's results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

During the last half of 2018, Duke Energy Progress and Duke Energy Florida's service territories were impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages to the service territory of Duke Energy Progress. Duke Energy Florida's service territory was also impacted by Hurricane Michael, a Category 4 hurricane and the most powerful storm to hit the Florida Panhandle in recorded history. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Progress filed with the NCUC a petition for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for other storms, and on January 30, 2019, the PSCSC issued a directive approving the deferral request. Duke Energy Florida anticipates filing a petition in the first half of 2019 with the FPSC to recover incremental storm costs consistent with the provisions in its 2017 Settlement. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of the recently approved rate case for Duke Energy Progress are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. On May 31, 2018, Duke Energy Florida filed for recovery of the storm costs. Storm costs are currently expected to be fully recovered by approximately mid-2021. The commission has scheduled the hearing to begin on May 21, 2019. An order disallowing recovery of these costs could have an adverse impact on Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

PART II

DUKE ENERGY PROGRESS

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Progress is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 5,699	\$ 5,129	\$ 570
Operating Expenses			
Fuel used in electric generation and purchased power	1,892	1,609	283
Operation, maintenance and other	1,578	1,439	139
Depreciation and amortization	991	725	266
Property and other taxes	155	156	(1)
Impairment charges	33	19	14
Total operating expenses	4,649	3,948	701
Gains on Sales of Other Assets and Other, net	9	4	5
Operating Income	1,059	1,185	(126)
Other Income and Expenses, net	87	115	(28)
Interest Expense	319	293	26
Income Before Income Taxes	827	1,007	(180)
Income Tax Expense	160	292	(132)
Net Income	\$ 667	\$ 715	\$ (48)

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Progress. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	9.9%	(2.6)%
General service sales	2.3%	(1.3)%
Industrial sales	0.8%	1.1%
Wholesale power sales	4.8%	(2.9)%
Joint dispatch sales	2.1%	(17.1)%
Total sales	3.8%	(3.2)%
Average number of customers	1.5%	1.4%

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$324 million increase in fuel revenues driven by higher retail sales and changes in generation mix;
- a \$125 million increase in retail pricing due to the impacts from the North Carolina and South Carolina rate cases;
- a \$96 million increase in wholesale power revenues, net of fuel, primarily due to recovery of coal ash costs and higher peak demand;
- a \$34 million net increase in retail rider revenues in conjunction with the implementation of new base rates;
- a \$61 million increase in retail sales due to favorable weather in the current year, net of the impact of lost revenues due to Hurricane Florence; and
- a \$35 million increase in weather-normal retail sales volumes.

Partially offset by:

- a \$119 million decrease in retail sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven primarily by:

- a \$283 million increase in fuel used in electric generation and purchased power primarily due to higher retail sales and changes in generation mix;
- a \$266 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs and new depreciation rates associated with the North Carolina rate case;
- a \$139 million increase in operation, maintenance and other expense primarily due to higher storm costs, impacts associated with the North Carolina rate case and severance charges; and
- a \$14 million increase in impairment charges associated with the North Carolina rate case.

PART II

Other Income and Expenses, net. The variance was primarily driven by lower income from non-service components of employment benefit costs. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Interest Expense. The variance was primarily driven by new debt issuances.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the favorable impact of the Tax Act in the prior year. The effective tax rates for the years ended December 31, 2018, and 2017 were 19.3 percent and 29.0 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act and the amortization of state excess deferred taxes partially offset by the impact of the Tax Act in the prior year.

Matters Impacting Future Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low-risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low risk classifications for these impoundments, indicating that Duke Energy Progress had satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Duke Energy Progress' results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Progress is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. As noted above, the order issued in the Duke Energy Progress North Carolinas rate case supporting recovery of past coal ash remediation costs has been appealed by various parties. The outcome of these appeals, lawsuits, fines and penalties could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Notes 4 and 5 to the

Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. The NCUC did allow Duke Energy Carolinas to petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. While Duke Energy Progress did not request recovery of these costs in its most recent case with the NCUC, Duke Energy Progress may request recovery of certain grid modernization costs in future regulatory proceedings. If the NCUC were to rule similarly, Duke Energy Progress' results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

During the last half of 2018, Duke Energy Progress' service territory was impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages in the service territory. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Progress filed with the NCUC a petition for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for other storms, and on January 30, 2019, the PSCSC issued a directive approving the deferral request. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of the recently approved rate case for Duke Energy Progress are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Duke Energy Progress' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

DUKE ENERGY FLORIDA

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Florida is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

PART II

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 5,021	\$ 4,646	\$ 375
Operating Expenses			
Fuel used in electric generation and purchased power	2,085	1,808	277
Operation, maintenance and other	1,025	853	172
Depreciation and amortization	628	560	68
Property and other taxes	374	347	27
Impairment charges	54	138	(84)
Total operating expenses	4,166	3,706	460
Gains on Sales of Other Assets and Other, net	1	1	—
Operating Income	856	941	(85)
Other Income and Expenses, net	86	96	(10)
Interest Expense	287	279	8
Income Before Income Taxes	655	758	(103)
Income Tax Expense	101	46	55
Net Income	\$ 554	\$ 712	\$ (158)

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Florida. The below percentages for retail customer classes represent billed sales only. Wholesale power sales include both billed and unbilled sales. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	4.3%	(2.3)%
General service sales	1.9%	(1.3)%
Industrial sales	(0.4)%	(2.4)%
Wholesale power sales	5.2%	20.1%
Total sales	2.4%	0.5%
Average number of customers	1.5%	1.6%

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$290 million increase in fuel and capacity revenues primarily due to an increase in fuel and capacity rates billed to retail customers and increased demand;
- a \$47 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year and impacts of lost revenue resulting from Hurricane Irma in the prior year;
- a \$24 million increase in retail pricing due to base rate adjustments related to generation assets being placed into service; and
- a \$12 million increase in weather-normal retail sales volumes.

Operating Expenses. The variance was driven primarily by:

- a \$277 million increase in fuel used in electric generation and purchased power primarily due to higher amortization of deferred fuel and capacity expenses and increased purchased power and demand;
- a \$172 million increase in operation, maintenance and other expense primarily due to higher storm cost amortization, vegetation management costs and severance charges, partially offset by lower storm restoration costs in the current year;

- a \$68 million increase in depreciation and amortization expense primarily due to accelerated depreciation of Crystal River Units 4 and 5 and additional plant in service; and
- a \$27 million increase in property and other taxes primarily due to higher revenue related taxes.

Partially offset by:

- an \$84 million decrease in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the prior year, offset by the current year impairment of the Citrus County CC.

Other Income and Expenses, net. The variance was driven primarily by lower income from non-service components of employee benefit costs in the current year. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Income Tax Expense. The variance was primarily due to the favorable impact of the Tax Act in the prior year partially offset by the lower statutory federal corporate tax rate under the Tax Act in the current year. The effective tax rates for the years ended December 31, 2018, and 2017 were 15.4 percent and 6.1 percent, respectively. The increase in the effective tax rate was primarily due to the favorable impact of the Tax Act in the prior year partially offset by the lower statutory federal corporate tax rate under the Tax Act and the amortization of federal excess deferred taxes in the current year.

PART II

Matters Impacting Future Results

On October 10, 2018, Hurricane Michael made landfall on Florida's Panhandle as a Category 4 hurricane, the most powerful storm to hit the Florida Panhandle in recorded history. The storm caused significant damage within the service territory of Duke Energy Florida, particularly from Panama City Beach to Mexico Beach. Duke Energy Florida has not completed the final accumulation of total estimated storm restoration costs incurred. Given the magnitude of the storm, Duke Energy Florida anticipates filing a petition in the first half of 2019 with the FPSC to recover incremental storm costs consistent with the provisions in its 2017 Settlement. An order from regulatory authorities disallowing the future recovery of storm restoration costs could have an adverse impact on Duke Energy Florida's financial position, results of operations and cash flows.

See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. On May 31, 2018, Duke Energy Florida filed for recovery of the storm costs. Storm costs are currently expected to be fully recovered by approximately mid-2021. The commission has scheduled the hearing to begin on May 21, 2019. An order disallowing recovery of these costs could have an adverse impact on Duke Energy Florida's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

DUKE ENERGY OHIO

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Ohio is presented in a reduced disclosure format in accordance with General Instruction (l)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues			
Regulated electric	\$ 1,450	\$ 1,373	\$ 77
Regulated natural gas	506	508	(2)
Nonregulated electric and other	1	42	(41)
Total operating revenues	1,957	1,923	34
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	412	369	43
Fuel used in electric generation and purchased power – nonregulated	—	58	(58)
Cost of natural gas	113	107	6
Operation, maintenance and other	480	530	(50)
Depreciation and amortization	268	261	7
Property and other taxes	290	278	12
Impairment charges	—	1	(1)
Total operating expenses	1,563	1,604	(41)
(Losses) Gains on Sales of Other Assets and Other, net	(106)	1	(107)
Operating Income	288	320	(32)
Other Income and Expenses, net	23	23	—
Interest Expense	92	91	1
Income from Continuing Operations Before Income Taxes	219	252	(33)
Income Tax Expense from Continuing Operations	43	59	(16)
Income from Continuing Operations	176	193	(17)
(Loss) Income from Discontinued Operations, net of tax	—	(1)	1
Net Income	\$ 176	\$ 192	\$ (16)

PART II

The following table shows the percent changes in GWh sales of electricity, dekatherms of natural gas delivered and average number of electric and natural gas customers for Duke Energy Ohio. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	Electric		Natural Gas	
	2018	2017	2018	2017
Residential sales	12.2%	(4.0)%	18.0%	(2.6)%
General service sales	3.3%	(3.1)%	15.4%	0.7%
Industrial sales	1.0%	(2.7)%	8.1%	(2.8)%
Wholesale electric power sales	(46.6)%	65.7%	n/a	n/a
Other natural gas sales	n/a	n/a	0.7%	(0.3)%
Total sales	2.8%	(2.1)%	11.9%	(1.1)%
Average number of customers	0.8%	0.8%	0.9%	0.7%

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. In 2018, the revenues and related expenses for OVEC are reflected in regulated electric due to the PUCO Order that approved Duke Energy Ohio to recover or credit amounts, through Rider PSR, that result from wholesale market transactions relating to Duke Energy Ohio's entitlement to capacity and energy from OVEC's power plants. In 2017, the revenues and related expenses for OVEC are reflected in nonregulated electric. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information.

The variance was driven primarily by:

- a \$44 million increase in electric and natural gas retail sales, net of fuel revenues, due to favorable weather in the current year;
- a \$17 million increase in rider revenue primarily related to capital investment riders;
- a \$16 million increase in financial transmission rights revenues;
- a \$7 million increase in point-to-point transmission revenues; and
- a \$6 million increase in fuel revenues due to higher natural gas costs.

Partially offset by:

- a \$48 million decrease in regulated revenues due to revenues subject to refund to customers associated with the lower statutory corporate tax rate under the Tax Act; and
- a \$7 million decrease in bulk power marketing sales.

Operating Expenses. The variance was driven by:

- a \$50 million decrease in operations, maintenance and other expense primarily due to the FERC approved settlement refund of certain transmission costs previously billed by PJM; and
- a \$15 million decrease in fuel used in electric generation and purchased power related to the deferral of OVEC purchased power, which is reflected in regulated electric in 2018 and nonregulated electric in 2017, as noted above in the Operating Revenues section.

Partially offset by:

- a \$12 million increase in property and other taxes primarily due to higher property taxes and kilowatt tax;
- a \$7 million increase in depreciation and amortization expense primarily due to additional plant in service and increased amortization of regulatory assets; and
- a \$6 million increase in cost of natural gas primarily due to an increase in natural gas sales volumes.

(Losses) Gains on Sales of Other Assets and Other, net. The decrease was driven by the loss on the sale of Beckjord, a nonregulated facility retired during 2014, including the transfer of coal ash basins and other real property and indemnification from any and all potential future claims related to the property, whether arising under environmental laws or otherwise.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act and a decrease in pretax income. The effective tax rates for the years ended December 31, 2018, and 2017 were 19.6 percent and 23.4 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the impact of the Tax Act in the prior year.

Matters Impacting Future Results

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

DUKE ENERGY INDIANA

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Indiana is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

PART II

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 3,059	\$ 3,047	\$ 12
Operating Expenses			
Fuel used in electric generation and purchased power	1,000	966	34
Operation, maintenance and other	788	743	45
Depreciation and amortization	520	458	62
Property and other taxes	78	76	2
Impairment charges	30	18	12
Total operating expenses	2,416	2,261	155
Operating Income	643	786	(143)
Other Income and Expenses, net	45	47	(2)
Interest Expense	167	178	(11)
Income Before Income Taxes	521	655	(134)
Income Tax Expense	128	301	(173)
Net Income	\$ 393	\$ 354	\$ 39

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Indiana. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	12.5%	(3.8)%
General service sales	2.8%	(2.4)%
Industrial sales	0.5%	0.3%
Wholesale power sales	(0.9)%	(10.5)%
Total sales	3.3%	(3.6)%
Average number of customers	1.3%	0.8%

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$65 million increase in rate rider revenues primarily related to the Edwardsport IGCC plant and the TDSIC rider;
- a \$50 million increase in fuel and other revenues primarily due to higher base fuel, non-native fuel and Midwest Independent System Operator rider revenues;
- a \$13 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year; and
- a \$13 million increase in weather-normal retail sales volumes.

Partially offset by:

- a \$105 million decrease due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act; and
- a \$27 million decrease in wholesale power revenues, net of fuel, primarily due to contracts that expired in the prior year.

Operating Expenses. The variance was driven primarily by:

- a \$62 million increase in depreciation and amortization expense primarily due to additional plant in service and the deferral of certain asset retirement obligations in the prior year;

- a \$45 million increase in operation, maintenance and other expense primarily due to amortization of previously deferred expenses, and higher transmission, storm and customer related costs;
- a \$34 million increase in fuel used in electric generation and purchased power primarily due to higher natural gas costs; and
- a \$12 million increase in impairment charges primarily due to the reduction of a regulatory asset pertaining to the Edwardsport IGCC settlement agreement in the current year, partially offset by the impairment of certain metering equipment in the prior year.

Interest Expense. The variance was primarily due to lower post in-service carrying costs due to three coal ash projects placed in service in December 2017, partially offset by higher intercompany money pool interest expense, higher AFUDC debt balances and higher floating rate debt interest expense.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act. The effective tax rates for the years ended December 31, 2018, and 2017 were 24.6 percent and 46.0 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act and by the impact of the Tax Act in the prior year.

PART II

Matters Impacting Future Results

On April 17, 2015, the EPA published in the Federal Register a rule to regulate the disposal of CCR from electric utilities as solid waste. Duke Energy Indiana has interpreted the rule to identify the coal ash basin sites impacted and has assessed the amounts of coal ash subject to the rule and a method of compliance. Duke Energy Indiana's interpretation of the requirements of the CCR rule is subject to potential legal challenges and further regulatory approvals, which could result in additional ash basin closure requirements, higher costs of compliance and greater AROs. Additionally, Duke Energy Indiana has retired

facilities that are not subject to the CCR rule. Duke Energy Indiana may incur costs at these facilities to comply with environmental regulations or to mitigate risks associated with on-site storage of coal ash. An order from regulatory authorities disallowing recovery of costs related to closure of ash basins could have an adverse impact on Duke Energy Indiana's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

PIEDMONT

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, and 2017, Piedmont's Annual Report on Form 10-K for the year ended October 31, 2016, and the Form 10-QT as of December 31, 2016, for the transition period from November 1, 2016, to December 31, 2016. The unaudited results of operations for the year ended December 31, 2016, were derived from data previously reported in the reports noted above.

Basis of Presentation

The results of operations and variance discussion for Piedmont is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues			
Regulated natural gas	\$ 1,365	\$ 1,319	\$ 46
Nonregulated natural gas and other	10	9	1
Total operating revenues	1,375	1,328	47
Operating Expenses			
Cost of natural gas	584	524	60
Operation, maintenance and other	357	304	53
Depreciation and amortization	159	148	11
Property and other taxes	49	48	1
Impairment charges	—	7	(7)
Total operating expenses	1,149	1,031	118
Operating Income	226	297	(71)
Equity in earnings (losses) of unconsolidated affiliates	7	(6)	13
Other income and expenses, net	14	(11)	25
Total other income and expenses	21	(17)	38
Interest Expense	81	79	2
Income Before Income Taxes	166	201	(35)
Income Tax Expense	37	62	(25)
Net Income	\$ 129	\$ 139	\$ (10)

The following table shows the percent changes in dekatherms delivered and average number of customers. The percentages for all throughput deliveries represent billed and unbilled sales. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential deliveries	23.6%	(8.1)%
Commercial deliveries	14.9%	(4.3)%
Industrial deliveries	4.2%	(2.2)%
Power generation deliveries	23.6%	(5.8)%
For resale	17.0%	(20.9)%
Total throughput deliveries	19.0%	(5.4)%
Secondary market volumes	(8.1)%	(4.2)%
Average number of customers	1.6%	1.7%

PART II

Piedmont's throughput was 557,145,128 dekatherms and 468,259,777 dekatherms for the years ended December 31, 2018, and 2017, respectively. Due to the margin decoupling mechanism in North Carolina and WNA mechanisms in South Carolina and Tennessee, changes in throughput deliveries do not have a material impact on Piedmont's revenues or earnings. The margin decoupling mechanism adjusts for variations in residential and commercial use per customer, including those due to weather and conservation. The WNA mechanisms mostly offset the impact of weather on bills rendered, but do not ensure full recovery of approved margin during periods when winter weather is significantly warmer or colder than normal.

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$60 million increase primarily due to higher natural gas costs passed through to customers due to higher volumes sold and higher natural gas prices; and
- a \$37 million increase primarily due to residential and commercial customer revenue, net of natural gas costs passed through to customers, due to customer growth and IMR rate adjustments and new power generation customers.

Partially offset by:

- a \$51 million decrease primarily due to revenues subject to refund to customers associated with the lower statutory corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven by:

- a \$60 million increase in cost of natural gas primarily due to higher volumes sold and higher natural gas costs passed through to customers due to the higher price per dekatherm of natural gas;
- a \$53 million increase in operations, maintenance and other expense primarily due to increased shared services, cost to achieve merger expenses and pension settlement charge; and
- an \$11 million increase in depreciation and amortization expense due to additional plant in service.

Partially offset by:

- a \$7 million decrease in impairment charges due to an impairment of software recorded in the prior year.

Other Income and Expenses. The variance was driven by:

- a \$25 million increase in other income and expenses, net primarily due to higher income from non-service components of employee benefit costs in the current year. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans"; and
- a \$13 million increase in equity earnings of unconsolidated affiliates from pipeline investments primarily due to favorable earnings partially offset by unfavorable impacts of the Tax Act in the prior year.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act. The effective tax rates for the years ended December 31, 2018, and 2017 were 22.3 percent and 30.8 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act.

Matters Impacting Future Results

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Preparation of financial statements requires the application of accounting policies, judgments, assumptions and estimates that can significantly affect the reported results of operations, cash flows or the amounts of assets and liabilities recognized in the financial statements. Judgments made include the likelihood of success of particular projects, possible legal and regulatory challenges, earnings assumptions on pension and other benefit fund investments and anticipated recovery of costs, especially through regulated operations.

Management discusses these policies, estimates and assumptions with senior members of management on a regular basis and provides periodic updates on management decisions to the Audit Committee. Management believes the areas described below require significant judgment in the application of accounting policy or in making estimates and assumptions that are inherently uncertain and that may change in subsequent periods.

For further information, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulated Operations Accounting

Substantially all of Duke Energy's regulated operations meet the criteria for application of regulated operations accounting treatment. As a result, Duke Energy is required to record assets and liabilities that would not be recorded for nonregulated entities. Regulatory assets generally represent incurred costs that have been deferred because such costs are probable of future recovery in customer rates. Regulatory liabilities are recorded when it is probable that a regulator will require Duke Energy to make refunds to customers or reduce rates to customers for previous collections or deferred revenue for costs that have yet to be incurred.

Management continually assesses whether recorded regulatory assets are probable of future recovery by considering factors such as:

- applicable regulatory environment changes;
- historical regulatory treatment for similar costs in Duke Energy's jurisdictions;
- litigation of rate orders;
- recent rate orders to other regulated entities;
- levels of actual return on equity compared to approved rates of return on equity; and
- the status of any pending or potential deregulation legislation.

If future recovery of costs ceases to be probable, asset write-offs would be recognized in operating income. Additionally, regulatory agencies can provide flexibility in the manner and timing of the depreciation of property, plant and equipment, recognition of asset retirement costs and amortization of regulatory assets, or may disallow recovery of all or a portion of certain assets.

As required by regulated operations accounting rules, significant judgment can be required to determine if an otherwise recognizable incurred cost qualifies to be deferred for future recovery as a regulatory asset. Significant judgment can also be required to determine if revenues previously recognized are for entity specific costs that are no longer expected to be incurred or have not yet been incurred and are therefore a regulatory liability.

PART II

Goodwill Impairment Assessments

Duke Energy performed its annual goodwill impairment tests for all reporting units as of August 31, 2018, and all of the reporting units' estimated fair value of equity substantially exceeded the carrying value of equity, except for the Commercial Renewables reporting units, which recorded impairment charges of \$93 million. The fair values of the reporting units were calculated using a weighted combination of the income approach, which estimates fair value based on discounted cash flows, and the market approach, which estimates fair value based on market comparables within the utility and energy industries.

Estimated future cash flows under the income approach are based on Duke Energy's internal business plan. Significant assumptions used are growth rates, future rates of return expected to result from ongoing rate regulation and discount rates. Management determines the appropriate discount rate for each of its reporting units based on the WACC for each individual reporting unit. The WACC takes into account both the after-tax cost of debt and cost of equity. A major component of the cost of equity is the current risk-free rate on 20-year U.S. Treasury bonds. In the 2018 impairment tests, Duke Energy considered implied WACCs for certain peer companies in determining the appropriate WACC rates to use in its analysis. As each reporting unit has a different risk profile based on the nature of its operations, including factors such as regulation, the WACC for each reporting unit may differ. Accordingly, the WACCs were adjusted, as appropriate, to account for company specific risk premiums. The discount rates used for calculating the fair values as of August 31, 2018, for each of Duke Energy's reporting units ranged from 5.5 percent to 6.9 percent. The underlying assumptions and estimates are made as of a point in time. Subsequent changes, particularly changes in the discount rates, authorized regulated rates of return or growth rates inherent in management's estimates of future cash flows, could result in future impairment charges.

One of the most significant assumptions utilized in determining the fair value of reporting units under the market approach is implied market multiples for certain peer companies. Management selects comparable peers based on each peer's primary business mix, operations, and market capitalization compared to the applicable reporting unit and calculates implied market multiples based on available projected earnings guidance and peer company market values as of August 31.

Duke Energy primarily operates in environments that are rate-regulated. In such environments, revenue requirements are adjusted periodically by regulators based on factors including levels of costs, sales volumes and costs of capital. Accordingly, Duke Energy's regulated utilities operate to some degree with a buffer from the direct effects, positive or negative, of significant swings in market or economic conditions. However, significant changes in discount rates over a prolonged period may have a material impact on the fair value of equity.

For further information, see Note 11 to the Consolidated Financial Statements, "Goodwill and Intangible Assets."

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment at the present value of the projected liability in the period in which it is incurred, if a reasonable estimate of fair value can be made.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. Duke Energy Florida assumes Crystal River Unit 3 will be placed into a safe storage configuration until eventual dismantlement is completed by 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that

spent fuel will be stored on-site until such time that it can be transferred to a yet to be built DOE facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis.

For further information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

Long-Lived Asset Impairment Assessments, Excluding Regulated Operations

Duke Energy evaluates property, plant and equipment for impairment when events or changes in circumstances (such as a significant change in cash flow projections or the determination that it is more likely than not that an asset or asset group will be sold) indicate the carrying value of such assets may not be recoverable. The determination of whether an impairment has occurred is based on an estimate of undiscounted future cash flows attributable to the assets, as compared with their carrying value.

Performing an impairment evaluation involves a significant degree of estimation and judgment in areas such as identifying circumstances that indicate an impairment may exist, identifying and grouping affected assets and developing the undiscounted future cash flows. If an impairment has occurred, the amount of the impairment recognized is determined by estimating the fair value and recording a loss if the carrying value is greater than the fair value. Additionally, determining fair value requires probability weighting future cash flows to reflect expectations about possible variations in their amounts or timing and the selection of an appropriate discount rate. Although cash flow estimates are based on relevant information available at the time the estimates are made, estimates of future cash flows are, by nature, highly uncertain and may vary significantly from actual results.

When determining whether an asset or asset group has been impaired, management groups assets at the lowest level that has discrete cash flows.

For further information, see Note 10 to the Consolidated Financial Statements, "Property, Plant and Equipment."

Equity Method Investments

Equity method investments are assessed for impairment when conditions exist that indicate that the fair value of the investment is less than book value. If the decline in value is considered to be other-than-temporary, an impairment charge is recorded and the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

Events or changes in circumstances are monitored that may indicate, in management's judgment, the carrying value of such investments may have experienced an other-than-temporary decline in value. The fair value of equity method investments is generally estimated using an income approach where significant judgments and assumptions include expected future cash flows, the appropriate discount rate, and probability weighted-scenarios, if applicable. In certain instances, a market approach may also be used to estimate the fair value of the equity method investment.

Events or changes in circumstances that may be indicative of an other-than-temporary decline in value will vary by investment, but may include:

- Significant delays in or failure to complete significant growth projects of investees;
- Adverse regulatory actions expected to substantially reduce the investee's product demand or profitability;
- Expected financial performance significantly worse than anticipated when initially invested;
- Prolonged period the fair value is below carrying value;

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- A significant or sustained decline in the market value of an investee;
- Lower than expected cash distributions from investees;
- Significant asset impairments or operating losses recognized by investees; and
- Loss of significant customers or suppliers with no immediate prospects for replacement.

ACP

As of December 31, 2018, the carrying value of the equity method investment in ACP is \$0.8 billion, and Duke Energy's maximum exposure to loss for its guarantee of the ACP revolving credit facility is \$0.7 billion. During the fourth quarter of 2018, ACP received several adverse court rulings as described in Note 4 to the Consolidated Financial Statements, "Regulatory Matters." As a result, Duke Energy evaluated this investment for impairment and determined that fair value approximated carrying value and therefore no impairment was necessary.

Duke Energy estimated the fair value of its investment in ACP using an income approach that primarily considered probability-weighted scenarios of discounted future net cash flows based on the most recent estimate of total construction costs and revenues. These scenarios included assumptions of various court decisions and the impact those decisions may have on the timing and extent of investment, including scenarios assuming the full resolution of permitting issues in addition to a scenario where the project does not proceed. Most of the scenarios reflect phased in-service date assumptions. Certain scenarios within the analysis also included growth expectations from additional compression or other expansion opportunities and reopeners for pricing. A discount rate of 6.1 percent was used in the analysis. Higher probabilities were generally assigned to those scenarios where court approvals were received and the project moves forward under reasonable timelines reflecting interim rates and either current contracted pricing provisions, or prices subject to the reopeners. A very low probability was assigned to the scenario where the project does not proceed.

Judgments and assumptions are inherent in our estimates of future cash flows, discount rates, growth assumptions, and the likelihood of various scenarios. It is reasonably possible that future unfavorable developments, such as a reduced likelihood of success with court approvals, increased estimates of construction costs, material increases in the discount rate, important feedback on customer price increases or further significant delays, could result in a future impairment. The use of alternate judgments and assumptions could result in a different calculation of fair value, which could ultimately result in the recognition of an impairment charge in the consolidated financial statements.

For further information, see Note 12 to the Consolidated Financial Statements, "Investments in Unconsolidated Affiliates."

Pension and Other Post-Retirement Benefits

The calculation of pension expense, other post-retirement benefit expense and net pension and other post-retirement assets or liabilities require the use of assumptions and election of permissible accounting alternatives. Changes in assumptions can result in different expense and reported asset or liability amounts and future actual experience can differ from the assumptions. Duke

Energy believes the most critical assumptions for pension and other post-retirement benefits are:

- the expected long-term rate of return on plan assets;
- the assumed discount rate applied to future projected benefit payments; and
- the health care cost trend rate.

Duke Energy elects to amortize net actuarial gain or loss amounts that are in excess of 10 percent of the greater of the market-related value of plan assets or the plan's projected benefit obligation, into net pension or other post-retirement benefit expense over the average remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period. Prior service cost or credit, which represents an increase or decrease in a plan's pension benefit obligation resulting from plan amendment, is amortized on a straight-line basis over the average expected remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period.

As of December 31, 2018, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.85 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension liability. Real assets, return-seeking fixed income, hedge funds and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers on investments.

Duke Energy discounted its future U.S. pension and other post-retirement obligations using a rate of 4.3 percent as of December 31, 2018. Discount rates used to measure benefit plan obligations for financial reporting purposes reflect rates at which pension benefits could be effectively settled. As of December 31, 2018, Duke Energy determined its discount rate for U.S. pension and other post-retirement obligations using a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

Future changes in plan asset returns, assumed discount rates and various other factors related to the participants in Duke Energy's pension and post-retirement plans will impact future pension expense and liabilities. Duke Energy cannot predict with certainty what these factors will be in the future. The following table presents the approximate effect on Duke Energy's 2018 pretax pension expense, pretax other post-retirement expense, pension obligation and other post-retirement benefit obligation if a 0.25 percent change in rates were to occur.

(In millions)	Qualified and Non-Qualified Pension Plans		Other Post-Retirement Plans	
	0.25%	(0.25)%	0.25%	(0.25)%
Effect on 2018 pretax pension and other post-retirement expense				
Expected long-term rate of return	\$ (22)	\$ 22	\$ (1)	\$ 1
Discount rate	(12)	12	1	(1)
Effect on pension and other post-retirement benefit obligation at December 31, 2018				
Discount rate	(183)	188	(13)	13

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Duke Energy's other post-retirement plan uses a health care cost trend rate covering both pre- and post-age 65 retired plan participants, which is comprised of a medical care cost trend rate, which reflects the near- and long-term expectation of increases in medical costs, and a prescription drug cost trend rate, which reflects the near- and long-term expectation of increases in prescription drug costs. As of December 31, 2018, the health care cost trend rate was 6.5 percent, trending down to 4.75 percent by 2024. The following table presents the approximate effect on Duke Energy's 2018 pretax other post-retirement expense and other post-retirement benefit obligation if a 1 percentage point change in the health care cost trend rate were to occur. These plans are closed to new employees.

(in millions)	Other Post-Retirement Plans	
	1%	(1)%
Effect on 2018 other post-retirement expense	\$ 1	\$ (1)
Effect on other post-retirement benefit obligation at December 31, 2018	22	(20)

For further information, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

LIQUIDITY AND CAPITAL RESOURCES

Sources and Uses of Cash

Duke Energy relies primarily upon cash flows from operations, debt and equity issuances and its existing cash and cash equivalents to fund its liquidity and capital requirements. Duke Energy's capital requirements arise primarily from capital and investment expenditures, repaying long-term debt and paying dividends to shareholders.

Among other provisions, the Tax Act lowers the corporate federal income tax rate from 35 to 21 percent and eliminates bonus depreciation for regulated utilities. For Duke Energy's regulated operations, the reduction in federal income taxes is expected to result in lower regulated customer rates. However, due to its existing NOL position and other tax credits, Duke Energy does not expect to be a significant federal cash tax payer through at least 2022. As a result, any reduction in customer rates could cause a material reduction in consolidated cash flows from operations in the short term. Over time, the reduction in deferred tax liabilities resulting from the Tax Act will increase Duke Energy's regulated rate base investments and customer rates. Impacts of Tax Act to Duke Energy's cash flows and credit metrics are subject to the regulatory actions of its state commissions and the FERC. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

The Subsidiary Registrants generally maintain minimal cash balances and use short-term borrowings to meet their working capital needs and other cash requirements. The Subsidiary Registrants, excluding Progress Energy (Parent), support their short-term borrowing needs through participation with Duke Energy and certain of its other subsidiaries in a money pool arrangement. The companies with short-term funds may provide short-term loans to affiliates participating under this arrangement. See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for additional discussion of the money pool arrangement.

Duke Energy and the Subsidiary Registrants, excluding Progress Energy (Parent), may also use short-term debt, including commercial paper and the money pool, as a bridge to long-term debt financings. The levels of borrowing may vary significantly over the course of the year due to the timing of long-term debt financings and the impact of fluctuations in cash flows from operations. From time to time, Duke Energy's current liabilities exceed current assets resulting from the use of short-term debt as a funding source to meet scheduled maturities of long-term debt, as well as cash needs, which can fluctuate due to the seasonality of its businesses.

Equity Issuance

In order to strengthen its balance sheet and credit metrics and bolster cash flows, Duke Energy plans to issue \$500 million of common stock equity per year through 2023 through the DRIP and ATM programs. See Note 19 to the Consolidated Financial Statements, "Common Stock," for further information regarding Duke Energy's equity issuances in 2018.

Credit Facilities and Registration Statements

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding credit facilities and shelf registration statements available to Duke Energy and the Duke Energy Registrants.

CAPITAL EXPENDITURES

Duke Energy continues to focus on reducing risk and positioning its business for future success and will invest principally in its strongest business sectors. Duke Energy's projected capital and investment expenditures, including debt AFUDC and capitalized interest, for the next three fiscal years are included in the table below.

(in millions)	2019	2020	2021
New generation	\$ 375	\$ 125	\$ 220
Regulated renewables	415	410	710
Environmental	240	125	35
Nuclear fuel	430	505	390
Major nuclear	305	315	250
Customer additions	505	480	475
Grid modernization and other transmission and distribution projects	2,835	3,160	2,980
Maintenance and other	3,395	2,605	2,390
Total Electric Utilities and Infrastructure	8,500	7,725	7,450
Gas Utilities and Infrastructure	1,675	2,000	1,600
Commercial Renewables and Other	925	825	625
Total projected capital and investment expenditures	\$ 11,100	\$ 10,550	\$ 9,675

DEBT MATURITIES

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant components of Current Maturities of Long-Term Debt on the Consolidated Balance Sheets.

DIVIDEND PAYMENTS

In 2018, Duke Energy paid quarterly cash dividends for the 92nd consecutive year and expects to continue its policy of paying regular cash dividends in the future. There is no assurance as to the amount of future dividends because they depend on future earnings, capital requirements, financial condition and are subject to the discretion of the Board of Directors.

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Duke Energy targets a dividend payout ratio of between 65 and 75 percent, based upon adjusted diluted EPS, and expects this trend to continue through 2023. In 2017 and 2018, Duke Energy increased the dividend by approximately 4 percent annually, and the company remains committed to continued growth of the dividend.

Dividend and Other Funding Restrictions of Duke Energy Subsidiaries

As discussed in Note 4 to the Consolidated Financial Statements, "Regulatory Matters," Duke Energy's wholly owned public utility operating companies have restrictions on the amount of funds that can be transferred to Duke Energy through dividends, advances or loans as a result of conditions imposed by various regulators in conjunction with merger transactions. Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures and Articles of Incorporation, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Additionally, certain other Duke Energy subsidiaries have other restrictions, such as minimum working capital and tangible net worth requirements pursuant to debt and other agreements that limit the amount of funds that can be transferred to Duke Energy. At December 31, 2018, the amount of restricted net assets of wholly owned subsidiaries of Duke Energy that may not be distributed to Duke Energy in the form of a loan or dividend does not exceed a material amount of Duke Energy's net assets. Duke Energy does not have any legal or other restrictions on paying common stock dividends to shareholders out of its consolidated equity accounts. Although these restrictions cap the amount of funding the various operating subsidiaries can provide to Duke Energy, management does not believe these restrictions will have a significant impact on Duke Energy's ability to access cash to meet its payment of dividends on common stock and other future funding obligations.

CASH FLOWS FROM OPERATING ACTIVITIES

Cash flows from operations of Electric Utilities and Infrastructure and Gas Utilities and Infrastructure are primarily driven by sales of electricity and natural gas, respectively, and costs of operations. These cash flows from operations are relatively stable and comprise a substantial portion of Duke Energy's operating cash flows. Weather conditions, working capital and commodity price fluctuations and unanticipated expenses including unplanned plant outages, storms, legal costs and related settlements can affect the timing and level of cash flows from operations.

Duke Energy believes it has sufficient liquidity resources through the commercial paper markets, and ultimately, the Master Credit Facility, to support these operations. Cash flows from operations are subject to a number of other factors, including, but not limited to, regulatory constraints, economic trends and market volatility (see Item 1A, "Risk Factors," for additional information).

At December 31, 2018, Duke Energy had cash and cash equivalents and short-term investments of \$442 million.

DEBT ISSUANCES

Depending on availability based on the issuing entity, the credit rating of the issuing entity, and market conditions, the Subsidiary Registrants prefer to issue first mortgage bonds and secured debt, followed by unsecured debt. This preference is the result of generally higher credit ratings for first mortgage bonds and secured debt, which typically result in lower interest costs. Duke Energy Corporation primarily issues unsecured debt.

In 2019, Duke Energy anticipates issuing additional debt of \$7.5 billion, primarily for the purpose of funding capital expenditures and debt maturities. See to Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant debt issuances in 2018.

Duke Energy's capitalization is balanced between debt and equity as shown in the table below.

	Projected 2019	Actual 2018	Actual 2017
Equity	44%	43%	43%
Debt	56%	57%	57%

Restrictive Debt Covenants

Duke Energy's debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio to not exceed 65 percent for each borrower, excluding Piedmont, and 70 percent for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements or sublimits thereto. As of December 31, 2018, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Credit Ratings

Moody's, S&P and Fitch Ratings, Inc. provide credit ratings for various Duke Energy Registrants. The following table includes Duke Energy and certain subsidiaries' credit ratings and ratings outlook as of February 2019.

	Moody's	S&P	Fitch
Duke Energy Corporation	Stable	Stable	Stable
Issuer Credit Rating	Baa1	A-	BBB+
Senior Unsecured Debt	Baa1	BBB+	BBB+
Commercial Paper	P-2	A-2	F-2
Duke Energy Carolinas	Stable	Stable	N/A
Senior Secured Debt	Aa2	A	N/A
Senior Unsecured Debt	A1	A-	N/A
Progress Energy	Stable	Stable	N/A
Senior Unsecured Debt	Baa1	BBB+	N/A
Duke Energy Progress	Stable	Stable	N/A
Senior Secured Debt	Aa3	A	N/A
Duke Energy Florida	Stable	Stable	N/A
Senior Secured Debt	A1	A	N/A
Senior Unsecured Debt	A3	A-	N/A
Duke Energy Ohio	Stable	Stable	N/A
Senior Secured Debt	A2	A	N/A
Senior Unsecured Debt	Baa1	A-	N/A
Duke Energy Indiana	Stable	Stable	N/A
Senior Secured Debt	Aa3	A	N/A
Senior Unsecured Debt	A2	A-	N/A
Duke Energy Kentucky	Stable	Stable	N/A
Senior Unsecured Debt	Baa1	A-	N/A
Piedmont Natural Gas	Stable	Stable	N/A
Senior Unsecured	A3	A-	N/A

Credit ratings are intended to provide credit lenders a framework for comparing the credit quality of securities and are not a recommendation to buy, sell or hold. The Duke Energy Registrants' credit ratings are dependent on the rating agencies' assessments of their ability to meet their debt principal and interest obligations when they come due. If, as a result of market conditions or other factors, the Duke Energy Registrants are unable to maintain current balance sheet strength, or if earnings and cash flow outlook materially deteriorates, credit ratings could be negatively impacted.

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Cash Flow Information

The following table summarizes Duke Energy's cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Cash flows provided by (used in):			
Operating activities	\$ 7,186	\$ 6,624	\$ 6,863
Investing activities	(10,060)	(8,442)	(11,528)
Financing activities	2,960	1,782	4,251
Changes in cash and cash equivalents included in assets held for sale	—	—	474
Net increase (decrease) in cash, cash equivalents and restricted cash	86	(36)	60
Cash, cash equivalents and restricted cash at beginning of period	505	541	481
Cash, cash equivalents and restricted cash at end of period	\$ 591	\$ 505	\$ 541

OPERATING CASH FLOWS

The following table summarizes key components of Duke Energy's operating cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Net income	\$ 2,644	\$ 3,064	\$ (420)	\$ 2,170	\$ 894
Non-cash adjustments to net income	6,484	5,380	1,104	5,305	75
Contributions to qualified pension plans	(141)	(19)	(122)	(155)	136
Payments for AROs	(533)	(571)	38	(608)	37
Payment for disposal of other assets	(105)	—	(105)	—	—
Working capital	(1,163)	(1,230)	67	151	(1,381)
Net cash provided by operating activities	\$ 7,186	\$ 6,624	\$ 562	\$ 6,863	\$ (239)

For the year ended December 31, 2018, compared to 2017, the variance was driven primarily by:

- a \$684 million increase in net income after adjustment for non-cash items primarily due to favorable weather and increased pricing and volumes in the current period; and
- a \$38 million decrease in payments to AROs.

Offset by:

- a \$122 million increase in contributions to qualified pension plans; and
- a \$105 million payment for disposal of Beckjord.

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$1,381 million decrease in working capital due to weather, payment of merger transaction and integration related costs and increased property tax payments in 2017.

Offset by:

- a \$969 million increase in net income after non-cash adjustments primarily due to the inclusion of Piedmont's earnings for a full year, favorable pricing and weather-normal retail volumes driven by the residential class in the Electric Utilities and Infrastructure segment combined with continued strong cost control;
- a \$136 million decrease in contributions to qualified pension plans; and
- a \$37 million decrease in payments to AROs.

INVESTING CASH FLOWS

The following table summarizes key components of Duke Energy's investing cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Capital, investment and acquisition expenditures	\$ (9,668)	\$ (8,198)	\$ (1,470)	\$ (13,215)	\$ 5,017
Debt and equity securities, net	(15)	27	(42)	83	(56)
Net proceeds from the sales of discontinued operations and other assets, net of cash divested	41	—	41	1,418	(1,418)
Other investing items	(418)	(271)	(147)	186	(457)
Net cash used in investing activities	\$ (10,060)	\$ (8,442)	\$ (1,618)	\$ (11,528)	\$ 3,086

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The primary use of cash related to investing activities is capital, investment and acquisition expenditures, detailed by reportable business segment in the following table.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Electric Utilities and Infrastructure	\$ 8,086	\$ 7,024	\$ 6,649
Gas Utilities and Infrastructure	1,133	907	5,519
Commercial Renewables	193	92	857
Other	256	175	190
Total capital, investment and acquisition expenditures	\$ 9,668	\$ 8,198	\$ 13,215

For the year ended December 31, 2018, compared to 2017, the variance was driven primarily by:

- a \$1,470 million increase in capital, investment and acquisition expenditures in all reportable business segments, including expenditures related to W.S. Lee CC, Asheville and Citrus County CC at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, respectively.

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$5,017 million decrease in capital, investment and acquisition expenditures mainly due to the Piedmont acquisition in the prior year.

Partially offset by:

- a \$1,418 million decrease in net proceeds from sales of discontinued operations due to the prior year sale of the International business.

FINANCING CASH FLOWS

The following table summarizes key components of Duke Energy's financing cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,				
	2018	2017	Variance		2016
			2018 vs. 2017	2017 vs. 2016	
Issuance of common stock	\$ 1,838	\$ —	\$ 1,838	\$ 731	\$ (731)
Issuances of long-term debt, net	2,393	4,593	(2,200)	7,315	(2,722)
Notes payable and commercial paper	1,171	(362)	1,533	(1,447)	1,085
Dividends paid	(2,471)	(2,450)	(21)	(2,332)	(118)
Other financing items	29	1	28	(16)	17
Net cash provided by financing activities	\$ 2,960	\$ 1,782	\$ 1,178	\$ 4,251	\$ (2,469)

For the year ended December 31, 2018, compared to 2017, the variance was driven primarily by:

- a \$1,838 million increase in proceeds from the issuance of common stock; and
- a \$1,533 million increase in net borrowings from notes payable and commercial paper primarily due to increased funding requirements for capital expenditures and storm costs.

Partially offset by:

- a \$2,200 million net decrease in proceeds from issuances of long-term debt primarily due to timing related to refinancing of existing maturities, fund growth and general corporate needs.

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$2,722 million net decrease in proceeds from issuances of long-term debt driven principally by the prior year \$3,750 million of senior unsecured notes used to fund a portion of the Piedmont acquisition, offset primarily by \$900 million of first mortgage bonds issued by Duke Energy Florida in the current year to fund capital expenditures for ongoing construction and capital maintenance and for general corporate purposes;
- a \$731 million decrease in proceeds from stock issuances used to fund a portion of the Piedmont acquisition in 2016; and
- a \$118 million current year increase in dividends paid.

Partially offset by:

- a \$1,085 million decrease in net borrowings from notes payable and commercial paper primarily due to the use of proceeds from \$1,294 million nuclear asset-recovery bonds issued at Duke Energy Florida in 2016 to pay down outstanding commercial paper.

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Off-Balance Sheet Arrangements

Duke Energy and certain of its subsidiaries enter into guarantee arrangements in the normal course of business to facilitate commercial transactions with third parties. These arrangements include performance guarantees, standby letters of credit, debt guarantees, surety bonds and indemnifications.

Most of the guarantee arrangements entered into by Duke Energy enhance the credit standing of certain subsidiaries, non-consolidated entities or less than wholly owned entities, enabling them to conduct business. As such, these guarantee arrangements involve elements of performance and credit risk, which are not always included on the Consolidated Balance Sheets. The possibility of Duke Energy, either on its own or on behalf of Spectra Energy Capital, LLC (Spectra Capital) through indemnification agreements entered into as part of the January 2, 2007, spin-off of Spectra Energy Corp, having to honor its contingencies is largely dependent upon the future operations of the subsidiaries, investees and other third parties, or the occurrence of certain future events.

Duke Energy performs ongoing assessments of its respective guarantee obligations to determine whether any liabilities have been incurred as a result of potential increased non-performance risk by third parties for which Duke Energy has issued guarantees. See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further details of the guarantee arrangements. Issuance of these guarantee arrangements is not required for the majority of Duke Energy's operations. Thus, if Duke Energy discontinued issuing these guarantees, there would not be a material impact to the consolidated results of operations, cash flows or financial position.

Other than the guarantee arrangements discussed above, normal operating lease arrangements and off-balance sheet debt related to non-consolidated VIEs, Duke Energy does not have any material off-balance sheet financing entities or structures. For additional information, see Notes 5 and 17 to the Consolidated Financial Statements, "Commitments and Contingencies" and "Variable Interest Entities," respectively.

Contractual Obligations

Duke Energy enters into contracts that require payment of cash at certain specified periods, based on certain specified minimum quantities and prices. The following table summarizes Duke Energy's contractual cash obligations as of December 31, 2018.

(in millions)	Payments Due By Period				
	Total	Less than 1 year (2019)	2-3 years (2020 & 2021)	4-5 years (2022 & 2023)	More than 5 years (2024 & beyond)
Long-term debt ^(a)	\$ 52,446	\$ 3,291	\$ 8,311	\$ 5,861	\$ 34,983
Interest payments on long-term debt ^(b)	32,834	2,121	3,823	3,329	23,561
Capital leases ^(c)	1,428	170	351	330	577
Operating leases ^(c)	1,991	239	405	330	1,017
Purchase obligations ^(d)					
Fuel and purchased power ^{(e)(f)}	20,496	4,329	5,315	3,153	7,699
Other purchase obligations ^(d)	12,436	4,617	1,178	775	5,866
Nuclear decommissioning trust annual funding ^(g)	482	24	48	48	362
Land easements ^(h)	234	10	20	20	184
Total contractual cash obligations^{(i)(j)}	\$ 122,347	\$ 14,801	\$ 19,451	\$ 13,846	\$ 74,249

(a) See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities."

(b) Interest payments on variable rate debt instruments were calculated using December 31, 2018, interest rates and holding them constant for the life of the instruments.

(c) See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies." Amounts in the table above include the interest component of capital leases based on the interest rates stated in the lease agreements and exclude certain related executory costs. Amounts exclude contingent lease obligations.

(d) Current liabilities, except for current maturities of long-term debt, and purchase obligations reflected on the Consolidated Balance Sheets have been excluded from the above table.

(e) Includes firm capacity payments that provide Duke Energy with uninterrupted firm access to electricity transmission capacity and natural gas transportation contracts, as well as undesignated contracts and contracts that qualify as NPNS. For contracts where the price paid is based on an index, the amount is based on market prices at December 31, 2018, or the best projections of the index. For certain of these amounts, Duke Energy may settle on a net cash basis since Duke Energy has entered into payment netting arrangements with counterparties that permit Duke Energy to offset receivables and payables with such counterparties.

(f) Amounts exclude obligations under the OVEC purchase power agreement. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities," for additional information.

(g) Includes contracts for software, telephone, data and consulting or advisory services. Amount also includes contractual obligations for EPC costs for new generation plants, wind and solar facilities, plant refurbishments, maintenance and day-to-day contract work and commitments to buy certain products. Amount excludes certain open purchase orders for services that are provided on demand, for which the timing of the purchase cannot be determined.

(h) Related to future annual funding obligations to NDTF through nuclear power stations' relicensing dates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

(i) Related to Commercial Renewables wind and solar facilities.

(j) Unrecognized tax benefits of \$24 million are not reflected in this table as Duke Energy cannot predict when open income tax years will close with completed examinations. See Note 23 to the Consolidated Financial Statements, "Income Taxes."

(k) The table above excludes reserves for litigation, environmental remediation, asbestos-related injuries and damages claims and self-insurance claims (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies") because Duke Energy is uncertain as to the timing and amount of cash payments that will be required. Additionally, the table above excludes annual insurance premiums that are necessary to operate the business, including nuclear insurance (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies"), funding of pension and other post-retirement benefit plans (see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans"), AROs, including ash management expenditures (see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations") and regulatory liabilities (see Note 4 to the Consolidated Financial Statements, "Regulatory Matters") because the amount and timing of the cash payments are uncertain. Also excluded are Deferred Income Taxes and ITCs recorded on the Consolidated Balance Sheets since cash payments for income taxes are determined based primarily on taxable income for each discrete fiscal year.

PART II

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Risk Management Policies

The Enterprise Risk Management policy framework at Duke Energy includes strategy, operational, project execution and financial or transaction related risks. Enterprise Risk Management includes market risk as part of the financial and transaction related risks in its framework.

Duke Energy is exposed to market risks associated with commodity prices, interest rates and equity prices. Duke Energy has established comprehensive risk management policies to monitor and manage these market risks. Duke Energy's Chief Executive Officer and Chief Financial Officer are responsible for the overall approval of market risk management policies and the delegation of approval and authorization levels. The Finance and Risk Management Committee of the Board of Directors receives periodic updates from the Chief Risk Officer and other members of management on market risk positions, corporate exposures and overall risk management activities. The Chief Risk Officer is responsible for the overall governance of managing commodity price risk, including monitoring exposure limits.

The following disclosures about market risk contain forward-looking statements that involve estimates, projections, goals, forecasts, assumptions, risks and uncertainties that could cause actual results or outcomes to differ materially from those expressed in the forward-looking statements. See Item 1A, "Risk Factors," and "Cautionary Statement Regarding Forward-Looking Information" for a discussion of the factors that may impact any such forward-looking statements made herein.

Commodity Price Risk

Duke Energy is exposed to the impact of market fluctuations in the prices of electricity, coal, natural gas and other energy-related products marketed and purchased as a result of its ownership of energy-related assets. Duke Energy's exposure to these fluctuations is limited by the cost-based regulation of its regulated operations as these operations are typically allowed to recover substantially all of these costs through various cost-recovery clauses, including fuel clauses, formula based contracts, or other cost-sharing mechanisms. While there may be a delay in timing between when these costs are incurred and when they are recovered through rates, changes from year to year generally do not have a material impact on operating results of these regulated operations.

Price risk represents the potential risk of loss from adverse changes in the market price of electricity or other energy commodities. Duke Energy's exposure to commodity price risk is influenced by a number of factors, including contract size, length, market liquidity, location and unique or specific contract terms. Duke Energy employs established policies and procedures to manage risks associated with these market fluctuations, which may include using various commodity derivatives, such as swaps, futures, forwards and options. For additional information, see Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging."

The inputs and methodologies used to determine the fair value of contracts are validated by an internal group separate from Duke Energy's deal origination function. While Duke Energy uses common industry practices to develop its valuation techniques, changes in its pricing methodologies or the underlying assumptions could result in significantly different fair values and income recognition.

Hedging Strategies

Duke Energy closely monitors risks associated with commodity price changes on its future operations and, where appropriate, uses various commodity instruments such as electricity, coal and natural gas forward contracts and options to mitigate the effect of such fluctuations on operations. Duke Energy's

primary use of energy commodity derivatives is to hedge against exposure to the prices of power, fuel for generation and natural gas for customers.

The majority of instruments used to manage Duke Energy's commodity price exposure are either not designated as hedges or do not qualify for hedge accounting. These instruments are referred to as undesignated contracts. Mark-to-market changes for undesignated contracts entered into by regulated businesses are reflected as regulatory assets or liabilities on the Consolidated Balance Sheets. Undesignated contracts entered into by unregulated businesses are marked-to-market each period, with changes in the fair value of the derivative instruments reflected in earnings.

Duke Energy may also enter into other contracts that qualify for the NPNS exception. When a contract meets the criteria to qualify as NPNS, Duke Energy applies such exception. Income recognition and realization related to NPNS contracts generally coincide with the physical delivery of the commodity. For contracts qualifying for the NPNS exception, no recognition of the contract's fair value in the Consolidated Financial Statements is required until settlement of the contract as long as the transaction remains probable of occurring.

Generation Portfolio Risks

The Duke Energy Registrants optimize the value of their generation portfolios, which include generation assets, fuel and emission allowances. Modeled forecasts of future generation output and fuel requirements are based on forward power and fuel markets. The component pieces of the portfolio are bought and sold based on models and forecasts of generation in order to manage the economic value of the portfolio in accordance with the strategies of the business units.

For the Electric Utilities and Infrastructure segment, the generation portfolio not utilized to serve retail operations or committed load is subject to commodity price fluctuations. However, the impact on the Consolidated Statements of Operations is partially offset by mechanisms in these regulated jurisdictions that result in the sharing of net profits from these activities with retail customers.

Interest Rate Risk

Duke Energy is exposed to risk resulting from changes in interest rates as a result of its issuance or anticipated issuance of variable and fixed-rate debt and commercial paper. Duke Energy manages interest rate exposure by limiting variable-rate exposures to a percentage of total debt and by monitoring the effects of market changes in interest rates. Duke Energy also enters into financial derivative instruments, which may include instruments such as, but not limited to, interest rate swaps, swaptions and U.S. Treasury lock agreements to manage and mitigate interest rate risk exposure. See Notes 1, 6, 14 and 16 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," "Debt and Credit Facilities," "Derivatives and Hedging," and "Fair Value Measurements."

At December 31, 2018, Duke Energy had \$1.2 billion of U.S. treasury lock agreements, \$644 million notional amount of floating-to-fixed swaps outstanding, \$500 million notional amount of fixed-to-floating swaps outstanding and \$300 million forward-starting swaps outstanding. Duke Energy had \$8.0 billion of unhedged long- and short-term floating interest rate exposure at December 31, 2018. The impact of a 100 basis point change in interest rates on pretax income is approximately \$80 million at December 31, 2018. This amount was estimated by considering the impact of the hypothetical interest rates on variable-rate securities outstanding, adjusted for interest rate hedges as of December 31, 2018.

See Note 14, "Derivatives and Hedging," to the Consolidated Financial Statements for additional information about the forward-starting interest rate swaps related to the Piedmont acquisition.

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Credit Risk

Credit risk represents the loss that the Duke Energy Registrants would incur if a counterparty fails to perform under its contractual obligations. Where exposed to credit risk, the Duke Energy Registrants analyze the counterparty's financial condition prior to entering into an agreement and monitor exposure on an ongoing basis. The Duke Energy Registrants establish credit limits where appropriate in the context of contractual arrangements and monitor such limits.

To reduce credit exposure, the Duke Energy Registrants seek to include netting provisions with counterparties, which permit the offset of receivables and payables with such counterparties. The Duke Energy Registrants also frequently use master agreements with credit support annexes to further mitigate certain credit exposures. The master agreements provide for a counterparty to post cash or letters of credit to the exposed party for exposure in excess of an established threshold. The threshold amount represents a negotiated unsecured credit limit for each party to the agreement, determined in accordance with the Duke Energy Registrants' internal corporate credit practices and standards. Collateral agreements generally also provide that the inability to post collateral is sufficient cause to terminate contracts and liquidate all positions.

The Duke Energy Registrants also obtain cash or letters of credit from certain counterparties to provide credit support outside of collateral agreements, where appropriate, based on a financial analysis of the counterparty and the regulatory or contractual terms and conditions applicable to each transaction. See Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging," for additional information regarding credit risk related to derivative instruments.

The Duke Energy Registrants' principal counterparties for its electric and natural gas businesses are regional transmission organizations, distribution companies, municipalities, electric cooperatives and utilities located throughout the U.S. The Duke Energy Registrants have concentrations of receivables from such entities throughout these regions. These concentrations of receivables may affect the Duke Energy Registrants' overall credit risk in that risk factors can negatively impact the credit quality of the entire sector.

The Duke Energy Registrants are also subject to credit risk from transactions with their suppliers that involve prepayments in conjunction with outsourcing arrangements, major construction projects and certain commodity purchases. The Duke Energy Registrants' credit exposure to such suppliers may take the form of increased costs or project delays in the event of non-performance. The Duke Energy Registrants' frequently require guarantees or letters of credit from suppliers to mitigate this credit risk.

Credit risk associated with the Duke Energy Registrants' service to residential, commercial and industrial customers is generally limited to outstanding accounts receivable. The Duke Energy Registrants mitigate this credit risk by requiring customers to provide a cash deposit, letter of credit or surety bond until a satisfactory payment history is established, subject to the rules and regulations in effect in each retail jurisdiction, at which time the deposit is typically refunded. Charge-offs for retail customers have historically been insignificant to the operations of the Duke Energy Registrants and are typically recovered through retail rates. Management continually monitors customer charge-offs and payment patterns to ensure the adequacy of bad debt reserves. Duke Energy Ohio and Duke Energy Indiana sell certain of their accounts receivable and related collections through CRC, a Duke Energy consolidated variable interest entity. Losses on collection are first absorbed by the equity of CRC and next by the subordinated retained interests held by Duke Energy Ohio, Duke Energy Kentucky and Duke Energy Indiana. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities." Duke Energy also provides certain non-tariff services, primarily to large commercial and industrial customers, in which incurred costs are intended to be recovered from the individual customer and therefore are not subject to rate recovery in the event of customer default. Customer credit worthiness is assessed prior to entering into these transactions.

Duke Energy's Commercial Renewables business segment enters into long-term agreements with certain creditworthy buyers that may not include the right to call for collateral in the event of a credit rating downgrade, and is therefore exposed to market price risk and credit risk related to these agreements. Credit concentration exists to certain counterparties on these agreements.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies" for information on asbestos-related injuries and damages claims.

The Duke Energy Registrants also have credit risk exposure through issuance of performance and financial guarantees, letters of credit and surety bonds on behalf of less than wholly owned entities and third parties. Where the Duke Energy Registrants have issued these guarantees, it is possible that they could be required to perform under these guarantee obligations in the event the obligor under the guarantee fails to perform. Where the Duke Energy Registrants have issued guarantees related to assets or operations that have been disposed of via sale, they attempt to secure indemnification from the buyer against all future performance obligations under the guarantees. See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further information on guarantees issued by the Duke Energy Registrants.

Based on the Duke Energy Registrants' policies for managing credit risk, their exposures and their credit and other reserves, the Duke Energy Registrants do not currently anticipate a materially adverse effect on their consolidated financial position or results of operations as a result of non-performance by any counterparty.

Marketable Securities Price Risk

As described further in Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," Duke Energy invests in debt and equity securities as part of various investment portfolios to fund certain obligations. The vast majority of investments in equity securities are within the NDTF and assets of the various pension and other post-retirement benefit plans.

Pension Plan Assets

Duke Energy maintains investments to facilitate funding the costs of providing non-contributory defined benefit retirement and other post-retirement benefit plans. These investments are exposed to price fluctuations in equity markets and changes in interest rates. The equity securities held in these pension plans are diversified to achieve broad market participation and reduce the impact of any single investment, sector or geographic region. Duke Energy has established asset allocation targets for its pension plan holdings, which take into consideration the investment objectives and the risk profile with respect to the trust in which the assets are held. See Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans," for additional information regarding investment strategy of pension plan assets.

A significant decline in the value of plan asset holdings could require Duke Energy to increase funding of its pension plans in future periods, which could adversely affect cash flows in those periods. Additionally, a decline in the fair value of plan assets, absent additional cash contributions to the plan, could increase the amount of pension cost required to be recorded in future periods, which could adversely affect Duke Energy's results of operations in those periods.

Nuclear Decommissioning Trust Funds

As required by the NRC, NCU, PSCSC and FPSC, subsidiaries of Duke Energy maintain trust funds to fund the costs of nuclear decommissioning. As of December 31, 2018, these funds were invested primarily in domestic and international equity securities, debt securities, cash and cash equivalents and

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short-term investments. Per the NRC, Internal Revenue Code, NCUC, PSCSC and FPSC requirements, these funds may be used only for activities related to nuclear decommissioning. These investments are exposed to price fluctuations in equity markets and changes in interest rates. Duke Energy actively monitors its portfolios by benchmarking the performance of its investments against certain indices and by maintaining, and periodically reviewing, target allocation percentages for various asset classes.

Accounting for nuclear decommissioning recognizes that costs are recovered through retail and wholesale rates; therefore, fluctuations in

investment prices do not materially affect the Consolidated Statements of Operations, as changes in the fair value of these investments are primarily deferred as regulatory assets or regulatory liabilities pursuant to Orders by the NCUC, PSCSC, FPSC and FERC. Earnings or losses of the fund will ultimately impact the amount of costs recovered through retail and wholesale rates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information regarding nuclear decommissioning costs. See Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," for additional information regarding NDTF assets.

OTHER MATTERS

Environmental Regulations

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters. These regulations can be changed from time to time and result in new obligations of the Duke Energy Registrants.

The following sections outline various proposed and recently enacted legislation and regulations that may impact the Duke Energy Registrants. Refer to Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for further information regarding potential plant retirements and regulatory filings related to the Duke Energy Registrants.

Coal Combustion Residuals

In April 2015, EPA published a rule to regulate the disposal of CCR from electric utilities as solid waste. The federal regulation classifies CCR as nonhazardous waste and allows for beneficial use of CCR with some restrictions. The regulation applies to all new and existing landfills, new and existing surface impoundments receiving CCR and existing surface impoundments that are no longer receiving CCR but contain liquid located at stations currently generating electricity (regardless of fuel source). The rule establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures to ensure the safe disposal and management of CCR. Various industry and environmental parties have appealed EPA's CCR rule in the D.C. Circuit Court. On April 18, 2016, EPA filed a motion with the federal court to settle five issues raised in litigation. On June 14, 2016, the court approved the motion with respect to all of those issues. Duke Energy does not expect a material impact from the settlement or that it will result in additional ARO adjustments. On September 13, 2017, EPA responded to a petition by the Utility Solid Waste Activities Group that the agency would reconsider certain provisions of the final rule, and asked the D.C. Circuit Court to suspend the litigation. The D.C. Circuit Court denied EPA's petition to suspend the litigation and oral argument was held on November 20, 2017. On August 21, 2018, the D.C. Circuit issued its decision in the CCR rule litigation denying relief for industry petitioners' remaining claims and ruling in favor of environmental petitioners on a number of their challenges, including the regulation of inactive CCR surface impoundments at retired plants and the continued operation of unlined impoundments.

On March 15, 2018, EPA published proposed amendments to the federal CCR rule, including revisions that were required as part of a CCR litigation settlement, as well as changes that the agency considers warranted due to the passage of the Water Infrastructure Improvements for the Nation Act, which provides statutory authority for state and federal permit programs. On July 17,

2018, EPA issued a rule (Phase 1, Part 1) finalizing certain, but not all, elements included in the agency's March 15, 2018, proposal. The final rule revises certain closure deadlines and groundwater protection standards in the CCR rule. It does not change the primary requirements for groundwater monitoring, corrective action, inspections and maintenance, and closure, and thus does not materially affect Duke Energy's coal ash basin closure plans or compliance obligations under the CCR rule. On October 22, 2018, a coalition of environmental groups filed a petition for review in the D.C. Circuit Court challenging EPA's final Phase 1, Part 1 revisions to the CCR rule. Briefing in the case concluded in February 2019.

In addition to the requirements of the federal CCR regulation, CCR landfills and surface impoundments will continue to be independently regulated by most states. Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions and via wholesale contracts, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. For more information, see Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Coal Ash Management Act of 2014

AROs recorded on the Duke Energy Carolinas and Duke Energy Progress Consolidated Balance Sheets at December 31, 2018, and December 31, 2017, include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of the Coal Ash Act, the EPA CCR rule and other agreements. The Coal Ash Act includes a variance procedure for compliance deadlines and other issues surrounding the management of CCR and CCR surface impoundments and prohibits cost recovery in customer rates for unlawful discharge of ash impoundment waters occurring after January 1, 2014. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of ash impoundments to the normal ratemaking processes before utility regulatory commissions.

Consistent with the requirements of the Coal Ash Act, Duke Energy has submitted comprehensive site assessments and groundwater corrective plans to NCDEQ and will submit to NCDEQ site-specific coal ash impoundment closure plans in advance of closure. In support of these closure plans, on November 15, 2018, Duke Energy submitted options analyses, groundwater modeling and net environmental benefits analyses for six sites potentially eligible for closure by cap in place. Separately, on November 16, 2018, Duke Energy submitted a variance application requesting that NCDEQ grant a six-month extension to the closure deadline applicable to the CCR surface impoundments at the Sutton Plant. NCDEQ held a public meeting on January 14, 2019 at which it announced that an extension would be appropriate. A final decision on the variance application is expected by April 15, 2019.

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The current plans for each site are listed in the table below.

NCDEQ Risk Classification	Plants/Current Closure Date	Expected Closure Method
Low	Allen – December 31, 2029 ^(a) Belews Creek – December 31, 2029 ^(a) Buck – December 31, 2029 ^{(a)(b)} Rogers – December 31, 2029 ^(a) Marshall – December 31, 2029 ^(a) Mayo – December 31, 2029 ^(a) Roxboro – December 31, 2029 ^(a)	Combination of a cap system and a groundwater monitoring system, or for selected sites, conversion for beneficial use.
Medium	H.F. Lee – December 31, 2029 ^(b) Cape Fear – December 31, 2029 ^(b) Weatherspoon – August 1, 2028	Excavation, which may include conversion of the basin to a lined industrial landfill, transferring coal ash to an engineered landfill, or for selected sites, conversion for beneficial use.
High	Sutton – August 1, 2019 Riverbend – August 1, 2019 Dan River – August 1, 2019 Asheville – August 1, 2022	Excavation, which may include a combination of transferring coal ash to an engineered landfill or for selected sites, conversion for beneficial use.

(a) In November 2018, the closure deadline for these basins was extended to December 31, 2029 as a result of the completion of certain dam improvement projects and alternative drinking water source projects by October 15, 2018.
(b) The Coal Ash Act requires the installation and operation of three large-scale coal ash beneficiation projects to produce reprocessed ash for use in the concrete industry. Duke Energy has selected the Buck, H.F. Lee and Cape Fear plants for these projects. Closure at these sites is required to be completed no later than December 31, 2029.

For further information on ash basins and recovery, see Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Estimated Cost and Impacts of Rulemakings

Duke Energy will incur capital expenditures to comply with the environmental regulations and rules discussed above. The following table, as of December 31, 2018, provides five-year estimated costs, excluding AFUDC, of new control equipment that may need to be installed on existing power plants primarily to comply with the Coal Ash Act requirements for conversion to dry disposal of bottom ash and fly ash, CWA 316(b) and ELGs through December 31, 2023. The table excludes ash basin closure costs recorded in Asset retirement obligations on the Consolidated Balance Sheets. For more information related to AROs, see Note 9 to the Consolidated Financial Statements.

(in millions)	Five-Year Estimated Costs
Duke Energy	\$ 420
Duke Energy Carolinas	185
Progress Energy	200
Duke Energy Progress	80
Duke Energy Florida	120
Duke Energy Ohio	15
Duke Energy Indiana	20

The Duke Energy Registrants also expect to incur increased fuel, purchased power, operation and maintenance and other expenses, in addition to costs for replacement generation for potential coal-fired power plant retirements, as a result of these regulations. Actual compliance costs incurred may be materially different from these estimates due to reasons such as the timing and requirements of EPA regulations and the resolution of legal challenges to the rules. The Duke Energy Registrants intend to seek rate recovery of necessary and prudently incurred costs associated with regulated operations to comply with these regulations.

Other Environmental Regulations

The Duke Energy Registrants are also subject to various federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters, including the following:

- Clean Water Act
- Steam Effluent Limitation Guidelines

- Cross-State Air Pollution Rule
- Carbon Pollution Standards for New, Modified and Reconstructed Power Plants
- Clean Power Plan/ACE Rule

Duke Energy continues to comply with enacted environmental laws and regulations even as certain of these regulations are in various stages of clarification, revision or legal challenges. The Duke Energy Registrants cannot predict the outcome of these matters.

Section 126 Petitions

On November 16, 2016, the state of Maryland filed a petition with EPA under Section 126 of the Clean Air Act alleging that 19 power plants, including two plants (three units) that Duke Energy Registrants own and operate, contribute to violations of EPA's NAAQS for ozone in the state of Maryland. On March 12, 2018, the state of New York filed a petition with EPA, also under Section 126 of the Clean Air Act alleging that over 60 power plants, including four that Duke Energy Registrants own and operate, contribute to violations of EPA's ozone NAAQS in the state of New York. Both Maryland and New York seek EPA orders requiring the states in which the named power plants operate impose more stringent NOx emission limitations on the plants. On October 5, 2018, EPA published a final rule denying the Maryland petition. That same day, Maryland appealed EPA's denial of their Section 126 petition to the D.C. Circuit Court. The impact of these petitions could be more stringent requirements for the operation of NOx emission controls at these plants. The Duke Energy Registrants cannot predict the outcome of these matters.

Global Climate Change

The Duke Energy Registrants' GHG emissions consist primarily of CO₂ and result primarily from operating a fleet of coal-fired and natural gas-fired power plants. In 2018, the Duke Energy Registrants' power plants emitted approximately 105 million tons of CO₂. Future levels of CO₂ emissions will be influenced by variables that include fuel prices, compliance with new or existing regulations, economic conditions that affect electricity demand and the technologies deployed to generate the electricity necessary to meet the customer demand.

The Duke Energy Registrants have taken actions that have resulted in a reduction of CO₂ emissions over time. Actions have included the retirement of 47 coal-fired EGUs with a combined generating capacity of 5,425 MW. Much of that capacity has been replaced with state-of-the-art highly efficient

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natural gas-fired generation that produces far fewer CO₂ emissions per unit of electricity generated. Duke Energy also has made investments to expand its portfolio of wind and solar projects, increase energy efficiency offerings and invest in its zero-CO₂ emissions hydropower and nuclear plants. These efforts have diversified its system and significantly reduced CO₂ emissions. Between 2005 and 2018, the Duke Energy Registrants have collectively lowered the CO₂ emissions from their electricity generation by 31 percent, which potentially lowers the exposure to any future mandatory CO₂ emission reduction requirements or carbon tax, whether as a result of federal legislation, EPA regulation, state regulation or other as yet unknown emission reduction requirement. Duke Energy will continue to explore the use of currently available and commercially demonstrated technology to reduce CO₂ emissions, including energy efficiency, wind, solar, storage and nuclear. Duke Energy will adjust to evolving and innovative technologies in a way that balances the reliability and affordability that customers expect. Under any future scenario involving mandatory CO₂ limitations, the Duke Energy Registrants would plan to seek recovery of their compliance costs through appropriate regulatory mechanisms.

The Duke Energy Registrants recognize certain groups associate severe weather events with increasing levels of GHGs in the atmosphere and forecast the possibility these weather events could have a material impact on future results of operations should they occur more frequently and with greater severity. However, the uncertain nature of potential changes in extreme weather events (such as increased frequency, duration and severity), the long period of time over which any potential changes might take place and the inability to predict potential changes with any degree of accuracy, make estimating any potential future financial risk to the Duke Energy Registrants' operations impossible.

The Duke Energy Registrants annually, biannually or triennially prepare lengthy, forward-looking IRPs. These detailed, highly technical plans are based on the company's thorough analysis of numerous factors that can impact the cost of producing and delivering electricity that influence long-term resource planning decisions. The IRP process helps to evaluate a range of options, taking into account forecasts of future electricity demand, fuel prices, transmission improvements, new generating capacity, integration of renewables, energy storage, energy efficiency and demand response initiatives. The IRP process also helps evaluate potential environmental and regulatory scenarios to better mitigate policy and economic risks. The IRPs we file with regulators look out 10 to 20 years depending on the jurisdiction.

For a number of years, the Duke Energy Registrants have included a price on CO₂ emissions in their IRP planning process to account for the potential regulation of CO₂ emissions. Incorporating a price on CO₂ emissions in the IRPs allows for the evaluation of existing and future resource needs against potential climate change policy risk in the absence of policy certainty. One of the challenges with using a CO₂ price, especially in the absence of a clear and certain policy, is determining the appropriate price to use. To address this uncertainty and ensure the company remains agile, the Duke Energy Registrants typically use a range of potential CO₂ prices to reflect a range of potential policy outcomes.

The Duke Energy Registrants routinely take steps to reduce the potential impact of severe weather events on their electric distribution systems by modernizing the electric grid through smart meters, storm hardening, self-healing and targeted undergrounding and applying lessons learned from previous storms to restoration efforts. The Duke Energy Registrants' electric generating facilities are designed to withstand extreme weather events without significant damage. The Duke Energy Registrants maintain an inventory of coal and oil on-site to mitigate the effects of any potential short-term disruption in fuel supply so they can continue to provide customers with an uninterrupted supply of electricity.

State Legislation

In July 2017, the North Carolina General Assembly passed House Bill 589, and it was subsequently enacted into law by the governor. The law includes, among other things, overall reform of the application of PURPA for new solar projects in the state, a requirement for the utility to procure approximately 2,600 MW of renewable energy through a competitive bidding process and recovery of costs related to the competitive bidding process through the fuel clause and a competitive procurement rider. The law stipulated certain deadlines for Duke Energy to file for NCUC approval of programs required under the law. Duke Energy has made some regulatory filings since the passage of the law and will continue to implement the requirements of House Bill 589.

In July 2018, Duke Energy issued an RFP for the first tranche of 680 MW. In accordance with the provisions of HB 589, total procurement will be changed based upon how much generation with no economic dispatch or curtailment occurs over the procurement period. Most of this type of generation is solar procured under PURPA. Based upon the current forecasted amount of such generation that will occur over procurement period, Duke Energy estimates the total under HB 589 competitive procurement will be approximately 1,500 to 2,000 MW.

In various states, legislation is being considered to allow third-party sales of electricity. Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs. The Duke Energy Registrants cannot predict the outcome of these initiatives.

Liquefied Natural Gas Facility

Piedmont Natural Gas plans to build a liquefied natural gas facility in Robeson County, North Carolina. The project is expected to be completed in the summer of 2021 at a cost of \$250 million. Construction will begin in the summer of 2019.

New Accounting Standards

See Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," for a discussion of the impact of new accounting standards.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

See "Management's Discussion and Analysis of Results of Operations and Financial Condition – Quantitative and Qualitative Disclosures About Market Risk."

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ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of
Duke Energy Corporation

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations, comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 28, 2019, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1947.

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF OPERATIONS

(in millions, except per share amounts)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues			
Regulated electric	\$22,097	\$21,177	\$21,221
Regulated natural gas	1,773	1,734	863
Nonregulated electric and other	651	654	659
Total operating revenues	24,521	23,565	22,743
Operating Expenses			
Fuel used in electric generation and purchased power	6,831	6,350	6,625
Cost of natural gas	697	632	265
Operation, maintenance and other	6,463	5,944	6,224
Depreciation and amortization	4,074	3,527	3,294
Property and other taxes	1,280	1,233	1,142
Impairment charges	402	282	18
Total operating expenses	19,747	17,968	17,568
(Losses) Gains on Sales of Other Assets and Other, net	(89)	28	27
Operating Income	4,685	5,625	5,202
Other Income and Expenses			
Equity in earnings (losses) of unconsolidated affiliates	83	119	(15)
Other income and expenses, net	399	508	463
Total other income and expenses	482	627	448
Interest Expense	2,094	1,986	1,916
Income From Continuing Operations Before Income Taxes	3,073	4,266	3,734
Income Tax Expense From Continuing Operations	448	1,196	1,156
Income From Continuing Operations	2,625	3,070	2,578
Income (Loss) From Discontinued Operations, net of tax	19	(6)	(408)
Net Income	2,644	3,064	2,170
Less: Net (Loss) Income Attributable to Noncontrolling Interests	(22)	5	18
Net Income Attributable to Duke Energy Corporation	\$ 2,666	\$ 3,059	\$ 2,152
Earnings Per Share – Basic and Diluted			
Income from continuing operations attributable to Duke Energy Corporation common stockholders			
Basic	\$ 3.73	\$ 4.37	\$ 3.71
Diluted	\$ 3.73	\$ 4.37	\$ 3.71
Income (Loss) from discontinued operations attributable to Duke Energy Corporation common stockholders			
Basic	\$ 0.03	\$ (0.01)	\$ (0.60)
Diluted	\$ 0.03	\$ (0.01)	\$ (0.60)
Net income attributable to Duke Energy Corporation common stockholders			
Basic	\$ 3.76	\$ 4.36	\$ 3.11
Diluted	\$ 3.76	\$ 4.36	\$ 3.11
Weighted average shares outstanding			
Basic	708	700	691
Diluted	708	700	691

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Net Income	\$ 2,644	\$ 3,064	\$ 2,170
Other Comprehensive (Loss) Income, net of tax			
Foreign currency translation adjustments	—	—	694
Pension and OPEB adjustments	(6)	3	(11)
Net unrealized (losses) gains on cash flow hedges	(10)	2	17
Reclassification into earnings from cash flow hedges	6	8	13
Unrealized (losses) gains on available-for-sale securities	(3)	13	2
Other Comprehensive (Loss) Income, net of tax	(13)	26	715
Comprehensive Income	2,631	3,090	2,885
Less: Comprehensive (Loss) Income Attributable to Noncontrolling Interests	(22)	5	20
Comprehensive Income Attributable to Duke Energy Corporation	\$ 2,653	\$ 3,085	\$ 2,865

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 442	\$ 358
Receivables (net of allowance for doubtful accounts of \$16 at 2018 and \$14 at 2017)	962	779
Receivables of VIEs (net of allowance for doubtful accounts of \$55 at 2018 and \$54 at 2017)	2,172	1,995
Inventory	3,084	3,250
Regulatory assets (includes \$52 at 2018 and \$51 at 2017 related to VIEs)	2,005	1,437
Other (includes \$162 at 2018 and \$214 at 2017 related to VIEs)	1,049	634
Total current assets	9,714	8,453
Property, Plant and Equipment		
Cost	134,458	127,507
Accumulated depreciation and amortization	(43,126)	(41,537)
Generation facilities to be retired, net	362	421
Net property, plant and equipment	91,694	86,391
Other Noncurrent Assets		
Goodwill	19,303	19,396
Regulatory assets (includes \$1,041 at 2018 and \$1,091 at 2017 related to VIEs)	13,617	12,442
Nuclear decommissioning trust funds	6,720	7,097
Investments in equity method unconsolidated affiliates	1,409	1,175
Other	2,935	2,960
Total other noncurrent assets	43,984	43,070
Total Assets	\$145,392	\$137,914

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED BALANCE SHEETS – (Continued)

(in millions)	December 31,	
	2018	2017
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 3,487	\$ 3,043
Notes payable and commercial paper	3,410	2,163
Taxes accrued	577	551
Interest accrued	559	525
Current maturities of long-term debt (includes \$227 at 2018 and \$225 at 2017 related to VIEs)	3,406	3,244
Asset retirement obligations	919	689
Regulatory liabilities	598	402
Other	2,085	1,865
Total current liabilities	15,041	12,482
Long-Term Debt (includes \$3,998 at 2018 and \$4,306 at 2017 related to VIEs)	51,123	49,035
Other Noncurrent Liabilities		
Deferred income taxes	7,806	6,621
Asset retirement obligations	9,548	9,486
Regulatory liabilities	14,834	15,330
Accrued pension and other post-retirement benefit costs	988	1,103
Investment tax credits	568	539
Other (includes \$212 at 2018 and \$241 at 2017 related to VIEs)	1,650	1,581
Total other noncurrent liabilities	35,394	34,660
Commitments and Contingencies		
Equity		
Common stock, \$0.001 par value, 2 billion shares authorized; 727 million shares outstanding at 2018 and 700 million shares outstanding at 2017	1	1
Additional paid-in capital	40,795	38,792
Retained earnings	3,113	3,013
Accumulated other comprehensive loss	(92)	(67)
Total Duke Energy Corporation stockholders' equity	43,817	41,739
Noncontrolling interests	17	(2)
Total equity	43,834	41,737
Total Liabilities and Equity	\$145,392	\$137,914

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 2,644	\$ 3,064	\$ 2,170
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	4,696	4,046	3,880
Equity component of AFUDC	(221)	(237)	(200)
Losses (Gains) on sales of other assets	88	(33)	477
Impairment charges	402	282	212
Deferred income taxes	1,079	1,433	900
Equity in (earnings) losses of unconsolidated affiliates	(83)	(119)	15
Accrued pension and other post-retirement benefit costs	61	8	21
Contributions to qualified pension plans	(141)	(19)	(155)
Payments for asset retirement obligations	(533)	(571)	(608)
Payment for the disposal of other assets	(105)	—	—
Other rate case adjustments	37	—	—
Provision for rate refunds	425	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	22	18	34
Receivables	(345)	(83)	(372)
Inventory	156	268	272
Other current assets	(721)	(400)	(174)
Increase (decrease) in			
Accounts payable	479	(204)	296
Taxes accrued	23	149	236
Other current liabilities	270	(482)	182
Other assets	(1,008)	(436)	(186)
Other liabilities	(39)	(60)	(137)
Net cash provided by operating activities	7,186	6,624	6,863
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(9,389)	(8,052)	(7,901)
Contributions to equity method investments	(416)	(414)	(307)
Acquisitions, net of cash acquired	—	(13)	(4,778)
Return of investment capital	137	281	1
Purchases of debt and equity securities	(3,762)	(4,071)	(5,153)
Proceeds from sales and maturities of debt and equity securities	3,747	4,098	5,236
Proceeds from the sales of discontinued operations and other assets, net of cash divested	41	—	1,418
Other	(418)	(271)	(44)
Net cash used in investing activities	(10,060)	(8,442)	(11,528)

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS – (Continued)

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the:			
Issuance of long-term debt	\$ 5,299	\$ 6,909	\$ 9,238
Issuance of common stock	1,838	—	731
Payments for the redemption of long-term debt	(2,906)	(2,316)	(1,923)
Proceeds from the issuance of short-term debt with original maturities greater than 90 days	472	319	2,081
Payments for the redemption of short-term debt with original maturities greater than 90 days	(282)	(272)	(2,166)
Notes payable and commercial paper	981	(409)	(1,362)
Dividends paid	(2,471)	(2,450)	(2,332)
Other	29	1	(16)
Net cash provided by financing activities	2,960	1,782	4,251
Changes in cash and cash equivalents included in assets held for sale	—	—	474
Net increase (decrease) in cash, cash equivalents, and restricted cash	86	(36)	60
Cash, cash equivalents, and restricted cash at beginning of period	505	541	481
Cash, cash equivalents, and restricted cash at end of period	\$ 591	\$ 505	\$ 541
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 2,086	\$ 1,963	\$ 1,794
Cash (received from) paid for income taxes	(266)	4	229
Significant non-cash transactions:			
Accrued capital expenditures	1,112	1,032	1,000
Non-cash dividends	107	—	—

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Duke Energy Corporation Stockholders' Accumulated Other Comprehensive Loss										
	Common Stock Shares	Common Stock	Additional Paid-in Capital	Retained Earnings	Foreign Currency Translation Adjustments	Net Losses on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available- for-Sale- Securities	Pension and OPEB Adjustments	Total Duke Energy Corporation Stockholders' Equity	Noncontrolling Interests	Total Equity
Balance at December 31, 2015	688	\$ 1	\$ 37,968	\$ 2,564	\$ (692)	\$ (50)	\$ (3)	\$ (61)	\$ 39,727	\$ 44	\$ 39,771
Net income	—	—	—	2,152	—	—	—	—	2,152	18	2,170
Other comprehensive income (loss) ^(a)	—	—	—	—	692	30	2	(11)	713	2	715
Common stock issuances, including dividend reinvestment and employee benefits	12	—	773	—	—	—	—	—	773	—	773
Common stock dividends	—	—	—	(2,332)	—	—	—	—	(2,332)	—	(2,332)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(6)	(6)
Other ^(d)	—	—	—	—	—	—	—	—	—	(50)	(50)
Balance at December 31, 2016	700	\$ 1	\$ 38,741	\$ 2,384	\$ —	\$ (20)	\$ (1)	\$ (72)	\$ 41,033	\$ 8	\$ 41,041
Net income	—	—	—	3,059	—	—	—	—	3,059	5	3,064
Other comprehensive income	—	—	—	—	—	10	13	3	26	—	26
Common stock issuances, including dividend reinvestment and employee benefits	—	—	51	—	—	—	—	—	51	—	51
Common stock dividends	—	—	—	(2,450)	—	—	—	—	(2,450)	—	(2,450)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(2)	(2)
Other ^(d)	—	—	—	20	—	—	—	—	20	(13)	7
Balance at December 31, 2017	700	\$ 1	\$ 38,792	\$ 3,013	\$ —	\$ (10)	\$ 12	\$ (69)	\$ 41,739	\$ (2)	\$ 41,737
Net income	—	—	—	2,666	—	—	—	—	2,666	(22)	2,644
Other comprehensive (loss) income	—	—	—	—	—	(4)	(3)	(6)	(13)	—	(13)
Common stock issuances, including dividend reinvestment and employee benefits	27	—	2,003	—	—	—	—	—	2,003	—	2,003
Common stock dividends	—	—	—	(2,578)	—	—	—	—	(2,578)	—	(2,578)
Distributions to noncontrolling interests in subsidiaries	—	—	—	—	—	—	—	—	—	(1)	(1)
Other ^(d)	—	—	—	12	—	—	(12)	—	—	42	42
Balance at December 31, 2018	727	\$ 1	\$ 40,795	\$ 3,113	\$ —	\$ (14)	\$ (3)	\$ (75)	\$ 43,817	\$ 17	\$ 43,834

- (a) Foreign Currency Translation Adjustments amount includes \$620 million of cumulative adjustment realized as a result of the sale of the Latin American generation business. See Note 2 to the Consolidated Financial Statements.
- (b) Noncontrolling Interests amount is primarily related to the sale of the Latin American generation business. See Note 2 to the Consolidated Financial Statements.
- (c) Retained Earnings relates to a cumulative-effect adjustment due to implementation of a new accounting standard related to stock-based compensation and the associated income taxes. See Note 1 to the Consolidated Financial Statements for additional information. Noncontrolling Interests relates to the purchase of remaining interest in REC Solar.
- (d) Amounts in Retained Earnings and Accumulated Other Comprehensive Loss represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information. Amount in Noncontrolling Interests primarily relates to tax equity financing activity in the Commercial Renewables segment.

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Carolinas, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Carolinas, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1947.

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 7,300	\$ 7,302	\$ 7,322
Operating Expenses			
Fuel used in electric generation and purchased power	1,821	1,822	1,797
Operation, maintenance and other	2,130	2,021	2,158
Depreciation and amortization	1,201	1,090	1,075
Property and other taxes	295	281	276
Impairment charges	192	—	1
Total operating expenses	5,639	5,214	5,307
(Losses) Gains on Sales of Other Assets and Other, net	(1)	1	(5)
Operating Income	1,660	2,089	2,010
Other Income and Expenses, net	153	199	214
Interest Expense	439	422	424
Income Before Income Taxes	1,374	1,866	1,800
Income Tax Expense	303	652	634
Net Income	\$ 1,071	\$ 1,214	\$ 1,166
Other Comprehensive Income, net of tax			
Reclassification into earnings from cash flow hedges	1	2	2
Other Comprehensive Income, net of tax	1	2	2
Comprehensive Income	\$ 1,072	\$ 1,216	\$ 1,168

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 33	\$ 16
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and 2017)	219	200
Receivables of VIEs (net of allowance for doubtful accounts of \$7 at 2018 and 2017)	699	640
Receivables from affiliated companies	182	95
Inventory	948	971
Regulatory assets	520	299
Other	72	19
Total current assets	2,673	2,240
Property, Plant and Equipment		
Cost	44,741	42,939
Accumulated depreciation and amortization	(15,496)	(15,063)
Net property, plant and equipment	29,245	27,876
Other Noncurrent Assets		
Regulatory assets	3,457	2,853
Nuclear decommissioning trust funds	3,558	3,772
Other	1,027	979
Total other noncurrent assets	8,042	7,604
Total Assets	\$ 39,960	\$ 37,720
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 988	\$ 842
Accounts payable to affiliated companies	230	209
Notes payable to affiliated companies	439	104
Taxes accrued	171	234
Interest accrued	102	108
Current maturities of long-term debt	6	1,205
Asset retirement obligations	290	337
Regulatory liabilities	199	126
Other	571	486
Total current liabilities	2,996	3,651
Long-Term Debt	10,633	8,598
Long-Term Debt Payable to Affiliated Companies	300	300
Other Noncurrent Liabilities		
Deferred income taxes	3,689	3,413
Asset retirement obligations	3,659	3,273
Regulatory liabilities	5,999	6,231
Accrued pension and other post-retirement benefit costs	99	95
Investment tax credits	231	232
Other	671	566
Total other noncurrent liabilities	14,348	13,810
Commitments and Contingencies		
Equity		
Member's equity	11,689	11,368
Accumulated other comprehensive loss	(6)	(7)
Total equity	11,683	11,361
Total Liabilities and Equity	\$ 39,960	\$ 37,720

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,071	\$ 1,214	\$ 1,166
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,487	1,409	1,382
Equity component of AFUDC	(73)	(106)	(102)
Losses (Gains) on sales of other assets	1	(1)	5
Impairment charges	192	—	1
Deferred income taxes	305	410	470
Accrued pension and other post-retirement benefit costs	4	(4)	4
Contributions to qualified pension plans	(46)	—	(43)
Payments for asset retirement obligations	(230)	(271)	(287)
Provision for rate refunds	182	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	2	9	5
Receivables	(86)	(9)	(76)
Receivables from affiliated companies	(87)	68	(56)
Inventory	25	78	215
Other current assets	(161)	7	67
Increase (decrease) in			
Accounts payable	168	23	(69)
Accounts payable to affiliated companies	21	(38)	18
Taxes accrued	(65)	86	187
Other current liabilities	89	(161)	63
Other assets	(179)	(49)	20
Other liabilities	(90)	(31)	6
Net cash provided by operating activities	2,530	2,634	2,976
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,706)	(2,524)	(2,220)
Purchases of debt and equity securities	(1,810)	(2,124)	(2,832)
Proceeds from sales and maturities of debt and equity securities	1,810	2,128	2,832
Notes receivable from affiliated companies	—	66	97
Other	(147)	(109)	(83)
Net cash used in investing activities	(2,853)	(2,563)	(2,206)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,983	569	1,587
Payments for the redemption of long-term debt	(1,205)	(116)	(356)
Notes payable to affiliated companies	335	104	—
Distributions to parent	(750)	(625)	(2,000)
Other	(23)	(1)	—
Net cash provided by (used in) financing activities	340	(69)	(769)
Net increase in cash and cash equivalents	17	2	1
Cash and cash equivalents at beginning of period	16	14	13
Cash and cash equivalents at end of period	\$ 33	\$ 16	\$ 14
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 452	\$ 398	\$ 393
Cash paid for (received from) income taxes	89	193	(60)
Significant non-cash transactions:			
Accrued capital expenditures	302	315	347

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Accumulated Other Comprehensive Loss		
	Member's Equity	Net Losses on Cash Flow Hedges	Total Equity
Balance at December 31, 2015	\$11,617	\$(11)	\$11,606
Net income	1,166	—	1,166
Other comprehensive income	—	2	2
Distributions to parent	(2,000)	—	(2,000)
Other	(2)	—	(2)
Balance at December 31, 2016	\$10,781	\$ (9)	\$10,772
Net income	1,214	—	1,214
Other comprehensive income	—	2	2
Distributions to parent	(625)	—	(625)
Other	(2)	—	(2)
Balance at December 31, 2017	\$11,368	\$ (7)	\$11,361
Net income	1,071	—	1,071
Other comprehensive income	—	1	1
Distributions to parent	(750)	—	(750)
Balance at December 31, 2018	\$11,689	\$ (6)	\$11,683

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Progress Energy, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Progress Energy, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1930.

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 10,728	\$ 9,783	\$ 9,853
Operating Expenses			
Fuel used in electric generation and purchased power	3,976	3,417	3,644
Operation, maintenance and other	2,613	2,301	2,458
Depreciation and amortization	1,619	1,285	1,213
Property and other taxes	529	503	487
Impairment charges	87	156	7
Total operating expenses	8,824	7,662	7,809
Gains on Sales of Other Assets and Other, net	24	26	25
Operating Income	1,928	2,147	2,069
Other Income and Expenses, net	165	209	186
Interest Expense	842	824	689
Income From Continuing Operations Before Income Taxes	1,251	1,532	1,566
Income Tax Expense From Continuing Operations	218	264	527
Income From Continuing Operations	1,033	1,268	1,039
Income From Discontinued Operations, net of tax	—	—	2
Net Income	1,033	1,268	1,041
Less: Net Income Attributable to Noncontrolling Interests	6	10	10
Net Income Attributable to Parent	\$ 1,027	\$ 1,258	\$ 1,031
Net Income	\$ 1,033	\$ 1,268	\$ 1,041
Other Comprehensive Income, net of tax			
Pension and OPEB adjustments	5	4	1
Net unrealized gain on cash flow hedges	6	5	—
Reclassification into earnings from cash flow hedges	—	—	8
Unrealized (losses) gains on available-for-sale securities	(1)	4	1
Other Comprehensive Income, net of tax	10	13	10
Comprehensive Income	1,043	1,281	1,051
Less: Comprehensive Income Attributable to Noncontrolling Interests	6	10	10
Comprehensive Income Attributable to Parent	\$ 1,037	\$ 1,271	\$ 1,041

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 67	\$ 40
Receivables (net of allowance for doubtful accounts of \$5 at 2018 and \$4 at 2017)	220	123
Receivables of VIEs (net of allowance for doubtful accounts of \$8 at 2018 and \$7 at 2017)	909	780
Receivables from affiliated companies	188	31
Notes receivable from affiliated companies	—	240
Inventory	1,459	1,592
Regulatory assets (includes \$52 at 2018 and \$51 at 2017 related to VIEs)	1,137	741
Other (includes \$39 at 2018 and \$44 at 2017 related to VIEs)	125	334
Total current assets	4,085	3,881
Property, Plant and Equipment		
Cost	50,260	47,323
Accumulated depreciation and amortization	(16,398)	(15,857)
Generation facilities to be retired, net	362	421
Net property, plant and equipment	34,224	31,887
Other Noncurrent Assets		
Goodwill	3,655	3,655
Regulatory assets (includes \$1,041 at 2018 and \$1,091 at 2017 related to VIEs)	6,564	6,010
Nuclear decommissioning trust funds	3,162	3,324
Other	974	931
Total other noncurrent assets	14,355	13,920
Total Assets	\$ 52,664	\$ 49,688

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED BALANCE SHEETS – (Continued)

(in millions)	December 31,	
	2018	2017
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 1,172	\$ 1,006
Accounts payable to affiliated companies	360	251
Notes payable to affiliated companies	1,235	805
Taxes accrued	109	101
Interest accrued	246	212
Current maturities of long-term debt (includes \$53 at 2018 and 2017 related to VIEs)	1,672	771
Asset retirement obligations	514	295
Regulatory liabilities	280	213
Other	821	729
Total current liabilities	6,409	4,383
Long-Term Debt (includes \$1,636 at 2018 and \$1,689 at 2017 related to VIEs)	17,089	16,916
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	3,941	3,502
Asset retirement obligations	4,897	5,119
Regulatory liabilities	5,049	5,306
Accrued pension and other post-retirement benefit costs	521	545
Other	351	302
Total other noncurrent liabilities	14,759	14,774
Commitments and Contingencies		
Equity		
Common stock, \$0.01 par value, 100 shares authorized and outstanding at 2018 and 2017	—	—
Additional paid-in capital	9,143	9,143
Retained earnings	5,131	4,350
Accumulated other comprehensive loss	(20)	(25)
Total Progress Energy, Inc. stockholder's equity	14,254	13,468
Noncontrolling interests	3	(3)
Total equity	14,257	13,465
Total Liabilities and Equity	\$ 52,664	\$ 49,688

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,033	\$ 1,268	\$ 1,041
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	1,987	1,516	1,435
Equity component of AFUDC	(104)	(92)	(76)
Gains on sales of other assets	(24)	(28)	(34)
Impairment charges	87	156	7
Deferred income taxes	358	703	532
Accrued pension and other post-retirement benefit costs	24	(28)	(24)
Contributions to qualified pension plans	(45)	—	(43)
Payments for asset retirement obligations	(230)	(248)	(270)
Other rate case adjustments	37	—	—
Provision for rate refunds	122	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	18	—	42
Receivables	(207)	(89)	7
Receivables from affiliated companies	(137)	71	211
Inventory	121	125	35
Other current assets	(12)	(397)	50
Increase (decrease) in			
Accounts payable	217	(260)	252
Accounts payable to affiliated companies	109	(97)	37
Taxes accrued	8	17	15
Other current liabilities	129	(166)	(42)
Other assets	(913)	(300)	(248)
Other liabilities	(34)	(98)	(36)
Net cash provided by operating activities	2,544	2,053	2,891
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(3,854)	(3,152)	(3,306)
Asset Acquisitions	—	—	(10)
Purchases of debt and equity securities	(1,753)	(1,806)	(2,143)
Proceeds from sales and maturities of debt and equity securities	1,769	1,824	2,187
Net proceeds from sales of other assets	20	—	—
Proceeds from insurance	—	7	58
Proceeds from the sale of nuclear fuel	—	20	20
Notes receivable from affiliated companies	240	(160)	(80)
Other	(182)	(86)	47
Net cash used in investing activities	(3,760)	(3,353)	(3,227)

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS – (Continued)

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	\$ 1,833	\$ 2,118	\$ 2,375
Payments for the redemption of long-term debt	(771)	(813)	(327)
Notes payable to affiliated companies	430	100	444
Dividends to parent	(250)	(124)	(2,098)
Other	(1)	(4)	(3)
Net cash provided by financing activities	1,241	1,277	391
Net increase (decrease) in cash, cash equivalents, and restricted cash	25	(23)	55
Cash, cash equivalents, and restricted cash at beginning of period	87	110	55
Cash, cash equivalents, and restricted cash at end of period	\$ 112	\$ 87	\$ 110
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 798	\$ 773	\$ 673
Cash received from income taxes	(348)	(146)	(187)
Significant non-cash transactions:			
Accrued capital expenditures	478	391	317
Equitization of certain notes payable to affiliates	—	1,047	—
Dividend to parent related to a legal entity restructuring	—	547	—

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Accumulated Other Comprehensive Loss						Total Progress Energy, Inc. Stockholder's Equity	Noncontrolling Interests	Total Equity
	Additional Paid-in Capital	Retained Earnings	Net Losses on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for- Sale Securities	Pension and OPEB Adjustments				
Balance at December 31, 2015	\$ 8,092	\$ 4,831	\$ (31)	\$ —	\$ (17)	\$ 12,875	\$ (22)	\$ 12,853	
Net income	—	1,031	—	—	—	1,031	10	1,041	
Other comprehensive income	—	—	8	1	1	10	—	10	
Distributions to noncontrolling interests	—	—	—	—	—	—	(1)	(1)	
Dividends to parent	—	(2,098)	—	—	—	(2,098)	—	(2,098)	
Other	2	—	—	—	—	2	—	2	
Balance at December 31, 2016	\$ 8,094	\$ 3,764	\$ (23)	\$ 1	\$ (16)	\$ 11,820	\$ (13)	\$ 11,807	
Net income	—	1,258	—	—	—	1,258	10	1,268	
Other comprehensive income	—	—	5	4	4	13	—	13	
Dividends to parent ^(a)	—	(672)	—	—	—	(672)	—	(672)	
Equitization of certain notes payable to affiliates	1,047	—	—	—	—	1,047	—	1,047	
Other	2	—	—	—	—	2	—	2	
Balance at December 31, 2017	\$ 9,143	\$ 4,350	\$ (18)	\$ 5	\$ (12)	\$ 13,468	\$ (3)	\$ 13,465	
Net income	—	1,027	—	—	—	1,027	6	1,033	
Other comprehensive income (loss)	—	—	6	(1)	5	10	—	10	
Distributions to noncontrolling interests	—	—	—	—	—	—	(1)	(1)	
Dividends to parent	—	(250)	—	—	—	(250)	—	(250)	
Other ^(b)	—	4	—	(5)	—	(1)	1	—	
Balance at December 31, 2018	\$ 9,143	\$ 5,131	\$ (12)	\$ (1)	\$ (7)	\$ 14,254	\$ 3	\$ 14,257	

(a) Includes a \$547 million non-cash dividend related to a legal entity restructuring.

(b) Amounts in Retained Earnings and Accumulated Other Comprehensive Loss represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Progress, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Progress, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1930.

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$5,699	\$5,129	\$5,277
Operating Expenses			
Fuel used in electric generation and purchased power	1,892	1,609	1,830
Operation, maintenance and other	1,578	1,439	1,565
Depreciation and amortization	991	725	703
Property and other taxes	155	156	156
Impairment charges	33	19	1
Total operating expenses	4,649	3,948	4,255
Gains on Sales of Other Assets and Other, net	9	4	3
Operating Income	1,059	1,185	1,025
Other Income and Expenses, net	87	115	132
Interest Expense	319	293	257
Income Before Income Taxes	827	1,007	900
Income Tax Expense	160	292	301
Net Income and Comprehensive Income	\$ 667	\$ 715	\$ 599

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 23	\$ 20
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and \$1 at 2017)	75	56
Receivables of VIEs (net of allowance for doubtful accounts of \$5 at 2018 and 2017)	547	459
Receivables from affiliated companies	23	3
Inventory	954	1,017
Regulatory assets	703	352
Other	62	97
Total current assets	2,387	2,004
Property, Plant and Equipment		
Cost	31,459	29,583
Accumulated depreciation and amortization	(11,423)	(10,903)
Generation facilities to be retired, net	362	421
Net property, plant and equipment	20,398	19,101
Other Noncurrent Assets		
Regulatory assets	4,111	3,507
Nuclear decommissioning trust funds	2,503	2,588
Other	612	599
Total other noncurrent assets	7,226	6,694
Total Assets	\$ 30,011	\$ 27,799
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 660	\$ 402
Accounts payable to affiliated companies	278	179
Notes payable to affiliated companies	294	240
Taxes accrued	53	64
Interest accrued	116	102
Current maturities of long-term debt	603	3
Asset retirement obligations	509	295
Regulatory liabilities	178	139
Other	408	376
Total current liabilities	3,099	1,800
Long-Term Debt	7,451	7,204
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	2,119	1,883
Asset retirement obligations	4,311	4,378
Regulatory liabilities	3,955	3,999
Accrued pension and other post-retirement benefit costs	237	248
Investment tax credits	142	143
Other	106	45
Total other noncurrent liabilities	10,870	10,696
Commitments and Contingencies		
Equity		
Member's Equity	8,441	7,949
Total Liabilities and Equity	\$ 30,011	\$ 27,799

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 667	\$ 715	\$ 599
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,183	936	907
Equity component of AFUDC	(57)	(47)	(50)
Gains on sales of other assets	(9)	(5)	(6)
Impairment charges	33	19	1
Deferred income taxes	236	384	384
Accrued pension and other post-retirement benefit costs	15	(20)	(32)
Contributions to qualified pension plans	(25)	—	(24)
Payments for asset retirement obligations	(195)	(192)	(212)
Other rate case adjustments	37	—	—
Provisions for rate refunds	122	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	5	(4)	4
Receivables	(107)	(58)	(17)
Receivables from affiliated companies	(20)	2	11
Inventory	63	59	12
Other current assets	(201)	(75)	84
Increase (decrease) in			
Accounts payable	219	(230)	181
Accounts payable to affiliated companies	99	(48)	37
Taxes accrued	(11)	(39)	90
Other current liabilities	46	(131)	114
Other assets	(484)	(53)	(163)
Other liabilities	12	(18)	12
Net cash provided by operating activities	1,628	1,195	1,932
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,220)	(1,715)	(1,733)
Purchases of debt and equity securities	(1,236)	(1,249)	(1,658)
Proceeds from sales and maturities of debt and equity securities	1,206	1,207	1,615
Net proceeds from the sales of other assets	20	—	—
Proceeds from insurance	—	4	—
Notes receivable from affiliated companies	—	165	(165)
Other	(115)	(55)	26
Net cash used in investing activities	(2,345)	(1,643)	(1,915)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	845	812	505
Payments for the redemption of long-term debt	(3)	(470)	(15)
Notes payable to affiliated companies	54	240	(209)
Distributions to parent	(175)	(124)	(300)
Other	(1)	(1)	(2)
Net cash provided by (used in) financing activities	720	457	(21)
Net increase (decrease) in cash and cash equivalents	3	9	(4)
Cash and cash equivalents at beginning of period	20	11	15
Cash and cash equivalents at end of period	\$ 23	\$ 20	\$ 11
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 303	\$ 291	\$ 248
Cash (received from) paid for income taxes	(112)	59	(287)
Significant non-cash transactions:			
Accrued capital expenditures	220	191	147

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity
Balance at December 31, 2015	\$7,059
Net income	599
Distribution to parent	(300)
Balance at December 31, 2016	\$7,358
Net income	715
Distribution to parent	(124)
Balance at December 31, 2017	\$7,949
Net income	667
Distribution to parent	(175)
Balance at December 31, 2018	\$8,441

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Florida, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Florida, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 2001.

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 5,021	\$ 4,646	\$ 4,568
Operating Expenses			
Fuel used in electric generation and purchased power	2,085	1,808	1,814
Operation, maintenance and other	1,025	853	884
Depreciation and amortization	628	560	509
Property and other taxes	374	347	333
Impairment charges	54	138	6
Total operating expenses	4,166	3,706	3,546
Gains on Sales of Other Assets and Other, net	1	1	—
Operating Income	856	941	1,022
Other Income and Expenses, net	86	96	63
Interest Expense	287	279	212
Income Before Income Taxes	655	758	873
Income Tax Expense	101	46	322
Net Income	\$ 554	\$ 712	\$ 551
Other Comprehensive (Loss) Income, net of tax			
Unrealized (losses) gains on available-for-sale securities	(1)	3	1
Other Comprehensive (Loss) Income, net of tax	(1)	3	1
Comprehensive Income	\$ 553	\$ 715	\$ 552

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 36	\$ 13
Receivables (net of allowance for doubtful accounts of \$3 at 2018 and 2017)	143	65
Receivables of VIEs (net of allowance for doubtful accounts of \$3 at 2018 and \$2 at 2017)	362	321
Receivables from affiliated companies	28	2
Notes receivable from affiliated companies	—	313
Inventory	504	574
Regulatory assets (includes \$52 at 2018 and \$51 at 2017 related to VIEs)	434	389
Other (includes \$39 at 2018 and \$40 at 2017 related to VIEs)	46	86
Total current assets	1,553	1,763
Property, Plant and Equipment		
Cost	18,792	17,730
Accumulated depreciation and amortization	(4,968)	(4,947)
Net property, plant and equipment	13,824	12,783
Other Noncurrent Assets		
Regulatory assets (includes \$1,041 at 2018 and \$1,091 at 2017 related to VIEs)	2,454	2,503
Nuclear decommissioning trust funds	659	736
Other	311	284
Total other noncurrent assets	3,424	3,523
Total Assets	\$ 18,801	\$ 18,069
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 511	\$ 602
Accounts payable to affiliated companies	91	74
Notes payable to affiliated companies	108	—
Taxes accrued	74	34
Interest accrued	75	56
Current maturities of long-term debt (includes \$53 at 2018 and 2017 related to VIEs)	270	768
Asset retirement obligations	5	—
Regulatory liabilities	102	74
Other	406	334
Total current liabilities	1,642	1,942
Long-Term Debt (includes \$1,336 at 2018 and \$1,389 at 2017 related to VIEs)	7,051	6,327
Other Noncurrent Liabilities		
Deferred income taxes	1,986	1,761
Asset retirement obligations	586	742
Regulatory liabilities	1,094	1,307
Accrued pension and other post-retirement benefit costs	254	264
Other	93	108
Total other noncurrent liabilities	4,013	4,182
Commitments and Contingencies		
Equity		
Member's equity	6,097	5,614
Accumulated other comprehensive income	(2)	4
Total equity	6,095	5,618
Total Liabilities and Equity	\$ 18,801	\$ 18,069

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 554	\$ 712	\$ 551
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	793	570	516
Equity component of AFUDC	(47)	(45)	(26)
Gains on sales of other assets	(1)	(1)	—
Impairment charges	54	138	6
Deferred income taxes	159	245	224
Accrued pension and other post-retirement benefit costs	5	(13)	2
Contributions to qualified pension plans	(20)	—	(20)
Payments for asset retirement obligations	(35)	(56)	(58)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	7	5	38
Receivables	(100)	(38)	23
Receivables from affiliated companies	(26)	—	21
Inventory	58	66	23
Other current assets	59	(138)	(86)
Increase (decrease) in			
Accounts payable	(1)	(32)	71
Accounts payable to affiliated companies	17	(51)	9
Taxes accrued	40	1	(117)
Other current liabilities	82	(37)	(149)
Other assets	(428)	(229)	(84)
Other liabilities	(61)	(82)	(53)
Net cash provided by operating activities	1,109	1,015	891
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,634)	(1,437)	(1,583)
Purchases of debt and equity securities	(517)	(557)	(485)
Proceeds from sales and maturities of debt and equity securities	563	617	572
Proceeds from insurance	—	4	58
Proceeds from the sale of nuclear fuel	—	20	20
Notes receivable from affiliated companies	313	(313)	—
Other	(65)	(31)	21
Net cash used in investing activities	(1,340)	(1,697)	(1,397)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	988	1,306	1,870
Payments for the redemption of long-term debt	(769)	(342)	(12)
Notes payable to affiliated companies	108	(297)	(516)
Distribution to parent	(75)	—	(775)
Other	1	(1)	—
Net cash provided by financing activities	253	666	567
Net increase (decrease) in cash, cash equivalents, and restricted cash	22	(16)	61
Cash, cash equivalents, and restricted cash at beginning of period	53	69	8
Cash, cash equivalents, and restricted cash at end of period	\$ 75	\$ 53	\$ 69
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 270	\$ 274	\$ 208
Cash (received from) paid for income taxes	(120)	(197)	216
Significant non-cash transactions:			
Accrued capital expenditures	258	199	170

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Accumulated Other Comprehensive Income (Loss)		
	Member's Equity	Net Unrealized Gains (Losses) on Available-for-Sale Securities	Total Equity
Balance at December 31, 2015	\$ 5,121	\$ —	\$ 5,121
Net income	551	—	551
Other comprehensive income	—	1	1
Distribution to parent	(775)	—	(775)
Other	2	—	2
Balance at December 31, 2016	\$ 4,899	\$ 1	\$ 4,900
Net income	712	—	712
Other comprehensive income	—	3	3
Other	3	—	3
Balance at December 31, 2017	\$ 5,614	\$ 4	\$ 5,618
Net income	554	—	554
Other comprehensive loss	—	(1)	(1)
Distribution to parent	(75)	—	(75)
Other ^(a)	4	(5)	(1)
Balance at December 31, 2018	\$ 6,097	\$ (2)	\$ 6,095

(a) Amounts represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Ohio, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Ohio, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 2002.

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues			
Regulated electric	\$1,450	\$1,373	\$1,410
Regulated natural gas	506	508	503
Nonregulated electric and other	1	42	31
Total operating revenues	1,957	1,923	1,944
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	412	369	442
Fuel used in electric generation and purchased power – nonregulated	—	58	51
Cost of natural gas	113	107	103
Operation, maintenance and other	480	530	514
Depreciation and amortization	268	261	233
Property and other taxes	290	278	258
Impairment charges	—	1	—
Total operating expenses	1,563	1,604	1,601
(Losses) Gains on Sales of Other Assets and Other, net	(106)	1	2
Operating Income	288	320	345
Other Income and Expenses, net	23	23	11
Interest Expense	92	91	86
Income From Continuing Operations Before Income Taxes	219	252	270
Income Tax Expense From Continuing Operations	43	59	78
Income From Continuing Operations	176	193	192
(Loss) Income From Discontinued Operations, net of tax	—	(1)	36
Net Income and Comprehensive Income	\$ 176	\$ 192	\$ 228

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 21	\$ 12
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and \$3 at 2017)	102	68
Receivables from affiliated companies	114	133
Notes receivable from affiliated companies	—	14
Inventory	126	133
Regulatory assets	33	49
Other	24	39
Total current assets	420	448
Property, Plant and Equipment		
Cost	9,360	8,732
Accumulated depreciation and amortization	(2,717)	(2,691)
Net property, plant and equipment	6,643	6,041
Other Noncurrent Assets		
Goodwill	920	920
Regulatory assets	531	445
Other	41	21
Total other noncurrent assets	1,492	1,386
Total Assets	\$ 8,555	\$ 7,875
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 316	\$ 313
Accounts payable to affiliated companies	78	62
Notes payable to affiliated companies	274	29
Taxes accrued	202	190
Interest accrued	22	21
Current maturities of long-term debt	551	3
Asset retirement obligations	6	3
Regulatory liabilities	57	36
Other	74	71
Total current liabilities	1,580	728
Long-Term Debt	1,589	2,039
Long-Term Debt Payable to Affiliated Companies	25	25
Other Noncurrent Liabilities		
Deferred income taxes	817	781
Asset retirement obligations	87	81
Regulatory liabilities	840	891
Accrued pension and other post-retirement benefit costs	79	59
Other	93	108
Total other noncurrent liabilities	1,916	1,920
Commitments and Contingencies		
Equity		
Common stock, \$8.50 par value, 120 million shares authorized; 90 million shares outstanding at 2018 and 2017	762	762
Additional paid-in capital	2,776	2,670
Accumulated deficit	(93)	(269)
Total equity	3,445	3,163
Total Liabilities and Equity	\$ 8,555	\$ 7,875

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 176	\$ 192	\$ 228
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	271	265	237
Equity component of AFUDC	(11)	(11)	(6)
Losses (Gains) on sales of other assets	106	(1)	(2)
Impairment charges	—	1	—
Deferred income taxes	25	90	55
Accrued pension and other post-retirement benefit costs	3	2	6
Contributions to qualified pension plans	—	(4)	(5)
Payments for asset retirement obligations	(3)	(7)	(5)
Provision for rate refunds	24	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	—	—	(2)
Receivables	(33)	2	(4)
Receivables from affiliated companies	19	(4)	(36)
Inventory	7	6	(32)
Other current assets	16	(22)	79
Increase (decrease) in			
Accounts payable	(19)	12	19
Accounts payable to affiliated companies	16	(1)	10
Taxes accrued	12	11	3
Other current liabilities	14	(19)	(54)
Other assets	(26)	(28)	(35)
Other liabilities	(27)	(5)	(31)
Net cash provided by operating activities	570	479	425
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(827)	(686)	(476)
Notes receivable from affiliated companies	14	80	(94)
Other	(89)	(41)	(30)
Net cash used in investing activities	(902)	(647)	(600)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	99	182	341
Payments for the redemption of long-term debt	(3)	(2)	(53)
Notes payable to affiliated companies	245	13	(87)
Dividends to parent	—	(25)	(25)
Other	—	(1)	(2)
Net cash provided by financing activities	341	167	174
Net increase (decrease) in cash and cash equivalents	9	(1)	(1)
Cash and cash equivalents at beginning of period	12	13	14
Cash and cash equivalents at end of period	\$ 21	\$ 12	\$ 13
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 87	\$ 85	\$ 81
Cash received from income taxes	(6)	(8)	(46)
Significant non-cash transactions:			
Accrued capital expenditures	95	82	83
Non-cash equity contribution from parent	106	—	—

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Accumulated Deficit	Total Equity
Balance at December 31, 2015	\$762	\$ 2,720	\$(698)	\$ 2,784
Net income	—	—	228	228
Contribution from parent	—	—	9	9
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2016	\$762	\$ 2,695	\$(461)	\$ 2,996
Net income	—	—	192	192
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2017	\$762	\$ 2,670	\$(269)	\$ 3,163
Net income	—	—	176	176
Contribution from parent	—	106	—	106
Balance at December 31, 2018	\$762	\$ 2,776	\$ (93)	\$ 3,445

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Indiana, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Indiana, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 2002.

PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 3,059	\$ 3,047	\$ 2,958
Operating Expenses			
Fuel used in electric generation and purchased power	1,000	966	909
Operation, maintenance and other	788	743	727
Depreciation and amortization	520	458	496
Property and other taxes	78	76	58
Impairment charges	30	18	8
Total operating expenses	2,416	2,261	2,198
Gains on Sales of Other Assets and Other, net	—	—	1
Operating Income	643	786	761
Other Income and Expenses, net	45	47	26
Interest Expense	167	178	181
Income Before Income Taxes	521	655	606
Income Tax Expense	128	301	225
Net Income	\$ 393	\$ 354	\$ 381
Other Comprehensive Loss, net of tax			
Reclassification into earnings from cash flow hedges	—	—	(1)
Comprehensive Income	\$ 393	\$ 354	\$ 380

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 24	\$ 9
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and 2017)	52	57
Receivables from affiliated companies	122	125
Inventory	422	450
Regulatory assets	175	165
Other	35	30
Total current assets	830	836
Property, Plant and Equipment		
Cost	15,443	14,948
Accumulated depreciation and amortization	(4,914)	(4,662)
Net property, plant and equipment	10,529	10,286
Other Noncurrent Assets		
Regulatory assets	982	978
Other	194	189
Total other noncurrent assets	1,176	1,167
Total Assets	\$ 12,535	\$ 12,289
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 200	\$ 196
Accounts payable to affiliated companies	83	78
Notes payable to affiliated companies	167	161
Taxes accrued	43	95
Interest accrued	58	57
Current maturities of long-term debt	63	3
Asset retirement obligations	109	54
Regulatory liabilities	25	24
Other	107	104
Total current liabilities	855	772
Long-Term Debt	3,569	3,630
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	1,009	925
Asset retirement obligations	613	727
Regulatory liabilities	1,722	1,723
Accrued pension and other post-retirement benefit costs	115	76
Investment tax credits	147	147
Other	16	18
Total other noncurrent liabilities	3,622	3,616
Commitments and Contingencies		
Equity		
Member's Equity	4,339	4,121
Total Liabilities and Equity	\$ 12,535	\$ 12,289

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 393	\$ 354	\$ 381
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization, and accretion	524	462	499
Equity component of AFUDC	(32)	(28)	(16)
Impairment charges	30	18	8
Deferred income taxes	95	152	213
Accrued pension and other post-retirement benefit costs	7	2	8
Contributions to qualified pension plans	(8)	—	(9)
Payments for asset retirement obligations	(69)	(45)	(46)
Provision for rate refunds	53	—	—
(Increase) decrease in:			
Receivables	7	59	(2)
Receivables from affiliated companies	3	(11)	(43)
Inventory	28	54	66
Other current assets	(25)	28	(67)
Increase (decrease) in:			
Accounts payable	37	(86)	8
Accounts payable to affiliated companies	5	4	(9)
Taxes accrued	(52)	64	(4)
Other current liabilities	14	(10)	(81)
Other assets	29	(28)	(27)
Other liabilities	(33)	(20)	(8)
Net cash provided by operating activities	1,006	969	871
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(832)	(840)	(755)
Purchases of debt and equity securities	(48)	(20)	(14)
Proceeds from sales and maturities of debt and equity securities	44	7	11
Proceeds from the sales of other assets	15	—	—
Notes receivable from affiliated companies	—	86	(3)
Other	3	(65)	32
Net cash used in investing activities	(818)	(832)	(729)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	—	—	494
Payments for the redemption of long-term debt	(3)	(5)	(478)
Notes payable to affiliated companies	6	161	—
Distributions to parent	(175)	(300)	(149)
Other	(1)	(1)	(1)
Net cash used in financing activities	(173)	(145)	(134)
Net increase (decrease) in cash and cash equivalents	15	(8)	8
Cash and cash equivalents at beginning of period	9	17	9
Cash and cash equivalents at end of period	\$ 24	\$ 9	\$ 17
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 162	\$ 179	\$ 171
Cash paid for (received from) income taxes	75	117	(7)
Significant non-cash transactions:			
Accrued capital expenditures	88	125	99

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Retained Earnings	Member's Equity	Accumulated Other Comprehensive Income	
					Net Gains on Cash Flow Hedges	Total Equity
Balance at December 31, 2015	\$ 1	\$ 1,384	\$ 2,450	\$ —	\$ 1	\$ 3,836
Net income	—	—	—	381	—	381
Other comprehensive loss	—	—	—	—	(1)	(1)
Distributions to parent	—	—	—	(149)	—	(149)
Transfer to Member's Equity	(1)	(1,384)	(2,450)	3,835	—	—
Balance at December 31, 2016	\$ —	\$ —	\$ —	\$ 4,067	\$ —	\$ 4,067
Net income	—	—	—	354	—	354
Distributions to parent	—	—	—	(300)	—	(300)
Balance at December 31, 2017	\$ —	\$ —	\$ —	\$ 4,121	\$ —	\$ 4,121
Net income	—	—	—	393	—	393
Distributions to parent	—	—	—	(175)	—	(175)
Balance at December 31, 2018	\$ —	\$ —	\$ —	\$ 4,339	\$ —	\$ 4,339

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Piedmont Natural Gas Company, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Piedmont Natural Gas Company, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the periods ended December 31, 2018, December 31, 2017, October 31, 2016, and for the two months ended December 31, 2016 and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the periods ended December 31, 2018, December 31, 2017, October 31, 2016, and for the two months ended December 31, 2016, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Emphasis of Matter

As discussed in Note 1 to the financial statements, effective for fiscal year 2016, the Company changed its fiscal year end from October 31 to December 31. This resulted in a two-month transition period beginning November 1, 2016 through December 31, 2016.

/s/Deloitte & Touche LLP

Charlotte, North Carolina

February 28, 2019

We have served as the Company's auditor since 1951.

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		Two Months Ended	Year Ended
	2018	2017	December 31, 2016	October 31, 2016
Operating Revenues				
Regulated natural gas	\$ 1,365	\$ 1,319	\$ 320	\$ 1,139
Nonregulated natural gas and other	10	9	2	10
Total operating revenues	1,375	1,328	322	1,149
Operating Expenses				
Cost of natural gas	584	524	144	391
Operation, maintenance and other	357	304	50	353
Depreciation and amortization	159	148	23	137
Property and other taxes	49	48	7	43
Impairment charges	—	7	—	—
Total operating expenses	1,149	1,031	224	924
Operating Income	226	297	98	225
Equity in earnings (losses) of unconsolidated affiliates	7	(6)	2	29
Gain on sale of unconsolidated affiliates	—	—	—	133
Other income and expense, net	14	(11)	(2)	(1)
Total other income and expenses	21	(17)	—	161
Interest Expense	81	79	12	69
Income Before Income Taxes	166	201	86	317
Income Tax Expense	37	62	32	124
Net Income	\$ 129	\$ 139	\$ 54	\$ 193
Other Comprehensive Income, net of tax				
Unrealized loss from hedging activities of equity method investments	—	—	—	(3)
Reclassification into earnings from hedging activities of equity method investments	—	—	—	4
Other Comprehensive Income, net of tax	—	—	—	1
Comprehensive Income	\$ 129	\$ 139	\$ 54	\$ 194

See Notes to Consolidated Financial Statements

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ —	\$ 19
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and 2017)	266	275
Receivables from affiliated companies	22	7
Inventory	70	66
Regulatory assets	54	95
Other	19	52
Total current assets	431	514
Property, Plant and Equipment		
Cost	7,486	6,725
Accumulated depreciation and amortization	(1,575)	(1,479)
Net property, plant and equipment	5,911	5,246
Other Noncurrent Assets		
Goodwill	49	49
Regulatory assets	303	283
Investments in equity method unconsolidated affiliates	64	61
Other	52	65
Total other noncurrent assets	468	458
Total Assets	\$ 6,810	\$ 6,218
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 203	\$ 125
Accounts payable to affiliated companies	38	13
Notes payable to affiliated companies	198	364
Taxes accrued	84	19
Interest accrued	31	31
Current maturities of long-term debt	350	250
Regulatory liabilities	37	3
Other	58	69
Total current liabilities	999	874
Long-Term Debt		
	1,788	1,787
Other Noncurrent Liabilities		
Deferred income taxes	551	564
Asset retirement obligations	19	15
Regulatory liabilities	1,181	1,141
Accrued pension and other post-retirement benefit costs	4	5
Other	177	170
Total other noncurrent liabilities	1,932	1,895
Commitments and Contingencies		
Equity		
Common stock, no par value: 100 shares authorized and outstanding at 2018 and 2017	1,160	860
Retained earnings	931	802
Total equity	2,091	1,662
Total Liabilities and Equity	\$ 6,810	\$ 6,218

See Notes to Consolidated Financial Statements

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		Two Months Ended	Year Ended
	2018	2017	December 31, 2016	October 31, 2016
CASH FLOWS FROM OPERATING ACTIVITIES				
Net income	\$ 129	\$ 139	\$ 54	\$ 193
Adjustments to reconcile net income to net cash provided by operating activities:				
Depreciation and amortization	161	151	25	148
Gains on sales of other assets	—	—	—	(133)
Impairment charges	—	7	—	—
Deferred income taxes	(31)	154	26	74
Equity in (earnings) losses from unconsolidated affiliates	(7)	6	(2)	(29)
Accrued pension and other post-retirement benefit costs	(4)	23	5	3
Contributions to qualified pension plans	—	(11)	(10)	(14)
Payments for asset retirement obligations	—	—	(1)	(6)
Provision for rate refunds	43	—	—	—
(Increase) decrease in				
Receivables	7	(40)	(157)	12
Receivables from affiliated companies	(15)	—	—	(7)
Inventory	(4)	—	(11)	14
Other current assets	71	(20)	8	(98)
Increase (decrease) in				
Accounts payable	15	(13)	35	6
Accounts payable to affiliated companies	25	5	4	6
Taxes accrued	65	(48)	(2)	38
Other current liabilities	21	(9)	2	28
Other assets	6	7	(7)	(91)
Other liabilities	(4)	(2)	5	180
Net cash provided by (used in) operating activities	478	349	(26)	324
CASH FLOWS FROM INVESTING ACTIVITIES				
Capital expenditures	(721)	(585)	(113)	(522)
Contributions to equity method investments	—	(12)	(12)	(47)
Proceeds from the sales of other assets	—	—	—	175
Other	(10)	(6)	1	5
Net cash used in investing activities	(731)	(603)	(124)	(389)
CASH FLOWS FROM FINANCING ACTIVITIES				
Proceeds from the:				
Issuance of long-term debt	100	250	—	295
Issuance of common stock	—	—	—	122
Payments for the redemption of long-term debt	—	(35)	—	(40)
Notes payable and commercial paper	—	(330)	185	(195)
Notes payable to affiliated companies	(166)	364	—	—
Capital contribution from parent	300	—	—	—
Dividends to parent	—	—	(27)	—
Dividends paid	—	—	—	(114)
Other	—	(1)	—	—
Net cash provided by financing activities	234	248	158	68
Net (decrease) increase in cash and cash equivalents	(19)	(6)	8	3
Cash and cash equivalents at beginning of period	19	25	17	14
Cash and cash equivalents at end of period	\$ —	\$ 19	\$ 25	\$ 17
Supplemental Disclosures:				
Cash paid for interest, net of amount capitalized	\$ 79	\$ 78	\$ 11	\$ 81
Cash received from income taxes	(16)	(12)	—	(25)
Significant non-cash transactions:				
Accrued capital expenditures	96	34	48	63
Transfer of ownership interest of certain equity method investees to parent	—	149	—	—

See Notes to Consolidated Financial Statements

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Total Equity
			Net Gain on Hedging Activities of Unconsolidated Affiliates	
Balance at October 31, 2015	\$ 721	\$ 706	\$ (1)	\$ 1,426
Net income	—	193	—	193
Other comprehensive income	—	—	1	1
Common stock issuances, including dividend reinvestment and employee benefits	139	—	—	139
Common stock dividends	—	(114)	—	(114)
Balance at October 31, 2016	\$ 860	\$ 785	\$ —	\$ 1,645
Net income	—	54	—	54
Dividends to parent	—	(27)	—	(27)
Balance at December 31, 2016	\$ 860	\$ 812	\$ —	\$ 1,672
Net income	—	139	—	139
Transfer of ownership interest of certain equity method investees to parent	—	(149)	—	(149)
Balance at December 31, 2017	\$ 860	\$ 802	\$ —	\$ 1,662
Net income	—	129	—	129
Contribution from parent	300	—	—	300
Balance at December 31, 2018	\$ 1,160	\$ 931	\$ —	\$ 2,091

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements

For the Years Ended December 31, 2018, 2017 and 2016

Index to Combined Notes To Consolidated Financial Statements

The notes to the consolidated financial statements are a combined presentation. The following table indicates the registrants to which the notes apply.

Registrant	Applicable Notes																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Duke Energy	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Duke Energy Carolinas	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Progress Energy	•																										
Duke Energy Progress	•	•	•	•	•																						
Duke Energy Florida	•	•	•	•	•																						
Duke Energy Ohio	•																										
Duke Energy Indiana	•																										
Piedmont	•	•	•	•	•	•																					

Tables within the notes may not sum across due to (i) Progress Energy's consolidation of Duke Energy Progress, Duke Energy Florida and other subsidiaries that are not registrants and (ii) subsidiaries that are not registrants but included in the consolidated Duke Energy balances.

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

NATURE OF OPERATIONS AND BASIS OF CONSOLIDATION

Duke Energy is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas; Progress Energy; Duke Energy Progress; Duke Energy Florida; Duke Energy Ohio; Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

In October 2016, Duke Energy completed the acquisition of Piedmont. Duke Energy's consolidated financial statements include Piedmont's results of operations and cash flows activity subsequent to the acquisition date. Effective November 1, 2016, Piedmont's fiscal year-end was changed from October 31 to December 31, the year-end of Duke Energy. A transition report was filed on Form 10-Q (Form 10-QT) for the transition period from November 1, 2016, to December 31, 2016. See Note 2 for additional information regarding the acquisition.

In December 2016, Duke Energy completed an exit of the Latin American market to focus on its domestic regulated business, which was further bolstered by the acquisition of Piedmont. The sale of the International Energy business segment, excluding an equity method investment in NMC, was

completed through two transactions including a sale of assets in Brazil to CTG and a sale of Duke Energy's remaining Latin American assets in Peru, Chile, Ecuador, Guatemala, El Salvador and Argentina to I Squared (collectively, the International Disposal Group). See Note 2 for additional information on the sale of International Energy.

The information in these combined notes relates to each of the Duke Energy Registrants as noted in the Index to Combined Notes to Consolidated Financial Statements. However, none of the Subsidiary Registrants make any representation as to information related solely to Duke Energy or the Subsidiary Registrants of Duke Energy other than itself.

These Consolidated Financial Statements include, after eliminating intercompany transactions and balances, the accounts of the Duke Energy Registrants and subsidiaries or VIEs where the respective Duke Energy Registrants have control. See Note 17 for additional information on VIEs. These Consolidated Financial Statements also reflect the Duke Energy Registrants' proportionate share of certain jointly owned generation and transmission facilities. See Note 8 for additional information on joint ownership. Substantially all of the Subsidiary Registrants' operations qualify for regulatory accounting.

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

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Combined Notes to Consolidated Financial Statements – (Continued)

Progress Energy is a public utility holding company, which conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. Progress Energy is subject to regulation by FERC and other regulatory agencies listed below.

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio conducts competitive auctions for retail electricity supply in Ohio whereby the energy price is recovered from retail customers and recorded in Operating Revenues on the Consolidated Statements of Operations and Comprehensive Income. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio collectively include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC and FERC.

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas in portions of North Carolina, South Carolina and Tennessee. Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC and FERC.

Certain prior year amounts have been reclassified to conform to the current year presentation.

Other Current Assets and Liabilities

The following table provides a description of amounts included in Other within Current Assets or Current Liabilities that exceed 5 percent of total Current Assets or Current Liabilities on the Duke Energy Registrants' Consolidated Balance Sheets at either December 31, 2018, or 2017.

(in millions)	Location	December 31,	
		2018	2017
Duke Energy			
Income taxes receivable	Current Assets	\$ 729	\$ 330
Accrued compensation	Current Liabilities	793	757
Duke Energy Carolinas			
Accrued compensation	Current Liabilities	\$ 251	\$ 252
Progress Energy			
Income taxes receivable	Current Assets	\$ 66	\$ 278
Customer deposits	Current Liabilities	345	338
Duke Energy Progress			
Customer deposits	Current Liabilities	\$ 137	\$ 129
Accrued compensation	Current Liabilities	130	132
Duke Energy Florida			
Customer deposits	Current Liabilities	\$ 208	\$ 208
Other accrued liabilities	Current Liabilities	85	16
Duke Energy Ohio			
Income taxes receivable	Current Assets	\$ 13	\$ 36
Customer deposits	Current Liabilities	44	46
Duke Energy Indiana			
Customer deposits	Current Liabilities	\$ 47	\$ 45
Piedmont			
Income taxes receivable	Current Assets	\$ 11	\$ 43

Discontinued Operations

The results of operations of the International Disposal Group have been classified as Discontinued Operations on Duke Energy's Consolidated Statements of Operations. Duke Energy has elected to present cash flows of discontinued operations combined with cash flows of continuing operations. Unless otherwise noted, the notes to these consolidated financial statements exclude amounts related to discontinued operations for all periods presented. See Note 2 for additional information.

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Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Attributable to Controlling Interests

For the years ended December 31, 2018, and 2017, the Income (Loss) From Discontinued Operations, net of tax on Duke Energy's Consolidated Statements of Operations is entirely attributable to controlling interest. For the year ended December 31, 2016, \$18 million of net income is attributable to noncontrolling interests, which consisted of \$7 million included in Income from Continuing Operations and \$11 million included in Income (Loss) From Discontinued Operations, net of tax on Duke Energy's Consolidated Statement of Operations.

SIGNIFICANT ACCOUNTING POLICIES

Use of Estimates

In preparing financial statements that conform to GAAP, the Duke Energy Registrants must make estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses and the disclosure of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Regulatory Accounting

The majority of the Duke Energy Registrants' operations are subject to price regulation for the sale of electricity and natural gas by state utility commissions or FERC. When prices are set on the basis of specific costs of the regulated operations and an effective franchise is in place such that sufficient natural gas or electric services can be sold to recover those costs, the Duke Energy Registrants apply regulatory accounting. Regulatory accounting changes the timing of the recognition of costs or revenues relative to a company that does not apply regulatory accounting. As a result, regulatory assets and regulatory liabilities are recognized on the Consolidated Balance Sheets. Regulatory assets and liabilities are amortized consistent with the treatment of the related cost in the ratemaking process. See Note 4 for further information.

Regulatory accounting rules also require recognition of a disallowance (also called "impairment") loss if it becomes probable that part of the cost of a plant

under construction (or a recently completed plant or an abandoned plant) will be disallowed for ratemaking purposes and a reasonable estimate of the amount of the disallowance can be made. For example, if a cost cap is set for a plant still under construction, the amount of the disallowance is a result of a judgment as to the ultimate cost of the plant. These disallowances can require judgments on allowed future rate recovery.

When it becomes probable that regulated generation, transmission or distribution assets will be abandoned, the cost of the asset is removed from plant in service. The value that may be retained as a regulatory asset on the balance sheet for the abandoned property is dependent upon amounts that may be recovered through regulated rates, including any return. As such, an impairment charge could be partially or fully offset by the establishment of a regulatory asset if rate recovery is probable. The impairment charge for a disallowance of costs for regulated plants under construction, recently completed or abandoned is based on discounted cash flows.

The Duke Energy Registrants utilize cost-tracking mechanisms, commonly referred to as fuel adjustment clauses or PGA clauses. These clauses allow for the recovery of fuel and fuel-related costs, portions of purchased power, natural gas costs and hedging costs through surcharges on customer rates. The difference between the costs incurred and the surcharge revenues is recorded either as an adjustment to Operating Revenues, Operating Expenses – Fuel used in electric generation or Operating Expenses – Cost of natural gas on the Consolidated Statements of Operations, with an off-setting impact on regulatory assets or liabilities.

Cash, Cash Equivalents and Restricted Cash

All highly liquid investments with maturities of three months or less at the date of acquisition are considered cash equivalents. Duke Energy, Progress Energy and Duke Energy Florida have restricted cash balances related primarily to collateral assets, escrow deposits and VIEs. See Note 17 for additional information. Restricted cash amounts are included in Other within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets. The following table presents the components of cash, cash equivalents and restricted cash included in the Consolidated Balance Sheets.

	December 31, 2018			December 31, 2017		
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy	Progress Energy	Duke Energy Florida
Current Assets						
Cash and cash equivalents	\$ 442	\$ 67	\$ 36	\$ 358	\$ 40	\$ 13
Other	141	39	39	138	40	40
Other Noncurrent Assets						
Other	8	6	—	9	7	—
Total cash, cash equivalents and restricted cash	\$ 591	\$ 112	\$ 75	\$ 505	\$ 87	\$ 53

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Combined Notes to Consolidated Financial Statements – (Continued)

Inventory

Inventory is used for operations and is recorded primarily using the average cost method. Inventory related to regulated operations is valued at historical cost. Inventory related to nonregulated operations is valued at the lower of cost or market. Materials and supplies are recorded as inventory when purchased and subsequently charged to expense or capitalized to property, plant and equipment when installed. Inventory, including excess or obsolete inventory, is written-down to the lower of cost or market value. Once inventory has been written-down, it creates a new cost basis for the inventory that is not subsequently written-up. Provisions for inventory write-offs were not material at December 31, 2018, and 2017. The components of inventory are presented in the tables below.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,238	\$ 731	\$ 1,049	\$ 734	\$ 315	\$ 84	\$ 312	\$ 2
Coal	491	175	192	106	86	14	109	—
Natural gas, oil and other	355	42	218	114	103	28	1	68
Total inventory	\$ 3,084	\$ 948	\$ 1,459	\$ 954	\$ 504	\$ 126	\$ 422	\$ 70

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,293	\$ 744	\$ 1,118	\$ 774	\$ 343	\$ 82	\$ 309	\$ 2
Coal	603	192	255	139	116	17	139	—
Natural gas, oil and other	354	35	219	104	115	34	2	64
Total inventory	\$ 3,250	\$ 971	\$ 1,592	\$ 1,017	\$ 574	\$ 133	\$ 450	\$ 66

Investments in Debt and Equity Securities

The Duke Energy Registrants classify investments in equity securities as FV-NI and investments in debt securities as AFS. Both categories are recorded at fair value on the Consolidated Balance Sheets. Realized and unrealized gains and losses on securities classified as FV-NI are reported through net income. Unrealized gains and losses for debt securities classified as AFS are included in AOCI until realized, except OTTI's that are included in earnings immediately. At the time gains and losses for debt securities are realized, they are reported through net income. For certain investments of regulated operations, such as substantially all of the NDTF, realized and unrealized gains and losses (including any OTTI's) on debt securities are recorded as a regulatory asset or liability. The credit loss portion of debt securities of nonregulated operations are included in earnings. Investments in debt and equity securities are classified as either current or noncurrent based on management's intent and ability to sell these securities, taking into consideration current market liquidity. See Note 15 for further information.

Goodwill and Intangible Assets

Goodwill

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont perform annual goodwill impairment tests as of August 31 each year at the reporting unit level, which is determined to be a business segment or one level below. Duke Energy, Progress Energy,

Duke Energy Ohio and Piedmont update these tests between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value. See Note 11 for further information.

Intangible Assets

Intangible assets are included in Other in Other Noncurrent Assets on the Consolidated Balance Sheets. Generally, intangible assets are amortized using an amortization method that reflects the pattern in which the economic benefits of the intangible asset are consumed or on a straight-line basis if that pattern is not readily determinable. Amortization of intangibles is reflected in Depreciation and amortization on the Consolidated Statements of Operations. Intangible assets are subject to impairment testing and if impaired, the carrying value is accordingly reduced.

Emission allowances permit the holder of the allowance to emit certain gaseous byproducts of fossil fuel combustion, including SO₂ and NO_x. Allowances are issued by the EPA at zero cost and may also be bought and sold via third-party transactions. Allowances allocated to or acquired by the Duke Energy Registrants are held primarily for consumption. Carrying amounts for emission allowances are based on the cost to acquire the allowances or, in the case of a business combination, on the fair value assigned in the allocation of the purchase price of the acquired business. Emission allowances are expensed to Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

RECs are used to measure compliance with renewable energy standards and are held primarily for consumption. See Note 11 for further information.

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Combined Notes to Consolidated Financial Statements – (Continued)

Long-Lived Asset Impairments

The Duke Energy Registrants evaluate long-lived assets, excluding goodwill, for impairment when circumstances indicate the carrying value of those assets may not be recoverable. An impairment exists when a long-lived asset's carrying value exceeds the estimated undiscounted cash flows expected to result from the use and eventual disposition of the asset. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. If the carrying value of the long-lived asset is not recoverable based on these estimated future undiscounted cash flows, the carrying value of the asset is written-down to its then-current estimated fair value and an impairment charge is recognized.

The Duke Energy Registrants assess fair value of long-lived assets using various methods, including recent comparable third-party sales, internally developed discounted cash flow analysis and analysis from outside advisors. Triggering events to reassess cash flows may include, but are not limited to, significant changes in commodity prices, the condition of an asset or management's interest in selling the asset.

Equity Method Investment Impairments

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method. Equity method investments are assessed for impairment whenever events or changes in circumstances indicate that the carrying amount of the investment may not be recoverable. If the decline in value is considered to be other than temporary, the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

Impairment assessments use a discounted cash flow income approach and include consideration of the severity and duration of any decline in the fair value of the investments. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. Key inputs that involve estimates and significant management judgment include cash flow projections, selection of a discount rate, probability weighting of potential outcomes, and whether any decline in value is considered temporary.

Property, Plant and Equipment

Property, plant and equipment are stated at the lower of depreciated historical cost net of any disallowances or fair value, if impaired. The Duke Energy Registrants capitalize all construction-related direct labor and material costs, as well as indirect construction costs such as general engineering, taxes and financing costs. See "Allowance for Funds Used During Construction and Interest Capitalized" for information on capitalized financing costs. Costs of renewals and betterments that extend the useful life of property, plant and equipment are also capitalized. The cost of repairs, replacements and major maintenance projects, which do not extend the useful life or increase the expected output of the asset, are expensed as incurred. Depreciation is generally computed over the estimated useful life of the asset using the composite straight-line method. Depreciation studies are conducted periodically to update composite rates and are approved by state utility commissions and/or the FERC when required. The composite weighted average depreciation rates, excluding nuclear fuel, are included in the table that follows.

	Years Ended December 31,		
	2018	2017	2016
Duke Energy	3.0%	2.8%	2.8%
Duke Energy Carolinas	2.8%	2.8%	2.8%
Progress Energy	2.9%	2.6%	2.7%
Duke Energy Progress	2.9%	2.6%	2.6%
Duke Energy Florida	3.0%	2.8%	2.8%
Duke Energy Ohio	2.8%	2.8%	2.6%
Duke Energy Indiana	3.3%	3.0%	3.1%
Piedmont ^(a)	2.5%	2.3%	

(a) Piedmont's weighted average depreciation rate was 2.4 percent for the annualized two months ended December 31, 2016, and for the year ended October 31, 2016.

In general, when the Duke Energy Registrants retire regulated property, plant and equipment, the original cost plus the cost of retirement, less salvage value and any depreciation already recognized, is charged to accumulated depreciation. However, when it becomes probable the asset will be retired substantially in advance of its original expected useful life or is abandoned, the cost of the asset and the corresponding accumulated depreciation is recognized as a separate asset. If the asset is still in operation, the net amount is classified as Generation facilities to be retired, net on the Consolidated Balance Sheets. If the asset is no longer operating, the net amount is classified in Regulatory assets on the Consolidated Balance Sheets if deemed recoverable (see discussion of long-lived asset impairments above). When it becomes probable an asset will be abandoned, the cost of the asset and accumulated depreciation is reclassified to Regulatory assets on the Consolidated Balance Sheets for amounts recoverable in rates. The carrying value of the asset is based on historical cost if the Duke Energy Registrants are allowed to recover the remaining net book value and a return equal to at least the incremental borrowing rate. If not, an impairment is recognized to the extent the net book value of the asset exceeds the present value of future revenues discounted at the incremental borrowing rate.

When the Duke Energy Registrants sell entire regulated operating units, or retire or sell nonregulated properties, the original cost and accumulated depreciation and amortization balances are removed from Property, Plant and Equipment on the Consolidated Balance Sheets. Any gain or loss is recorded in earnings, unless otherwise required by the applicable regulatory body. See Note 10 for additional information.

Nuclear Fuel

Nuclear fuel is classified as Property, Plant and Equipment on the Consolidated Balance Sheets.

Nuclear fuel in the front-end fuel processing phase is considered work in progress and not amortized until placed in service. Amortization of nuclear fuel is included within Fuel used in electric generation and purchased power on the Consolidated Statements of Operations. Amortization is recorded using the units-of-production method.

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Combined Notes to Consolidated Financial Statements – (Continued)

Allowance for Funds Used During Construction and Interest Capitalized

For regulated operations, the debt and equity costs of financing the construction of property, plant and equipment are reflected as AFUDC and capitalized as a component of the cost of property, plant and equipment. AFUDC equity is reported on the Consolidated Statements of Operations as non-cash income in Other income and expenses, net. AFUDC debt is reported as a non-cash offset to Interest Expense. After construction is completed, the Duke Energy Registrants are permitted to recover these costs through their inclusion in rate base and the corresponding subsequent depreciation or amortization of those regulated assets.

AFUDC equity, a permanent difference for income taxes, reduces the ETR when capitalized and increases the ETR when depreciated or amortized. See Note 23 for additional information.

For nonregulated operations, interest is capitalized during the construction phase with an offsetting non-cash credit to Interest Expense on the Consolidated Statements of Operations.

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment. Substantially all AROs are related to regulated operations. When recording an ARO, the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made. The liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be probable of recovery.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. The Duke Energy Registrants receive amounts to fund the cost of the ARO for regulated operations through a combination of regulated revenues and earnings on the NDTF. As a result, amounts recovered in regulated revenues, earnings on the NDTF, accretion expense and depreciation of the associated asset are netted and deferred as a regulatory asset or liability.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. Duke Energy Florida assumes Crystal River Unit 3 will be placed into a safe storage configuration until eventual dismantlement is completed by 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built DOE facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under

development and multiple closure options are being considered and evaluated on a site-by-site basis. See Note 9 for additional information.

Revenue Recognition

Duke Energy recognizes revenue as customers obtain control of promised goods and services in an amount that reflects consideration expected in exchange for those goods or services. Generally, the delivery of electricity and natural gas results in the transfer of control to customers at the time the commodity is delivered and the amount of revenue recognized is equal to the amount billed to each customer, including estimated volumes delivered when billings have not yet occurred. See Note 18 for further information.

Derivatives and Hedging

Derivative and non-derivative instruments may be used in connection with commodity price and interest rate activities, including swaps, futures, forwards and options. All derivative instruments, except those that qualify for the NPNS exception, are recorded on the Consolidated Balance Sheets at fair value. Qualifying derivative instruments may be designated as either cash flow hedges or fair value hedges. Other derivative instruments (undesignated contracts) either have not been designated or do not qualify as hedges. The effective portion of the change in the fair value of cash flow hedges is recorded in AOCI. The effective portion of the change in the fair value of a fair value hedge is offset in net income by changes in the hedged item. For activity subject to regulatory accounting, gains and losses on derivative contracts are reflected as regulatory assets or liabilities and not as other comprehensive income or current period income. As a result, changes in fair value of these derivatives have no immediate earnings impact.

Formal documentation, including transaction type and risk management strategy, is maintained for all contracts accounted for as a hedge. At inception and at least every three months thereafter, the hedge contract is assessed to see if it is highly effective in offsetting changes in cash flows or fair values of hedged items.

See Note 14 for further information.

Captive Insurance Reserves

Duke Energy has captive insurance subsidiaries that provide coverage, on an indemnity basis, to the Subsidiary Registrants as well as certain third parties, on a limited basis, for financial losses, primarily related to property, workers' compensation and general liability. Liabilities include provisions for estimated losses IBNR, as well as estimated provisions for known claims. IBNR reserve estimates are primarily based upon historical loss experience, industry data and other actuarial assumptions. Reserve estimates are adjusted in future periods as actual losses differ from experience.

Duke Energy, through its captive insurance entities, also has reinsurance coverage with third parties for certain losses above a per occurrence and/or aggregate retention. Receivables for reinsurance coverage are recognized when realization is deemed probable.

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Combined Notes to Consolidated Financial Statements – (Continued)

Unamortized Debt Premium, Discount and Expense

Premiums, discounts and expenses incurred with the issuance of outstanding long-term debt are amortized over the term of the debt issue. The gain or loss on extinguishment associated with refinancing higher-cost debt obligations in the regulated operations is amortized. Amortization expense is recorded as Interest Expense in the Consolidated Statements of Operations and is reflected as Depreciation, amortization and accretion within Net cash provided by operating activities on the Consolidated Statements of Cash Flows.

Premiums, discounts and expenses are presented as an adjustment to the carrying value of the debt amount and included in Long-Term Debt on the Consolidated Balance Sheets presented.

Loss Contingencies and Environmental Liabilities

Contingent losses are recorded when it is probable a loss has occurred and can be reasonably estimated. When a range of the probable loss exists and no amount within the range is a better estimate than any other amount, the minimum amount in the range is recorded. Unless otherwise required by GAAP, legal fees are expensed as incurred.

Environmental liabilities are recorded on an undiscounted basis when environmental remediation or other liabilities become probable and can be reasonably estimated. Environmental expenditures related to past operations that do not generate current or future revenues are expensed. Environmental expenditures related to operations that generate current or future revenues are expensed or capitalized, as appropriate. Certain environmental expenditures receive regulatory accounting treatment and are recorded as regulatory assets. See Notes 4 and 5 for further information.

Pension and Other Post-Retirement Benefit Plans

Duke Energy maintains qualified, non-qualified and other post-retirement benefit plans. Eligible employees of the Subsidiary Registrants participate in the respective qualified, non-qualified and other post-retirement benefit plans and the Subsidiary Registrants are allocated their proportionate share of benefit costs. See Note 22 for further information, including significant accounting policies associated with these plans.

Severance and Special Termination Benefits

Duke Energy has severance plans under which in general, the longer a terminated employee worked prior to termination the greater the amount of severance benefits. A liability for involuntary severance is recorded once an involuntary severance plan is committed to by management if involuntary severances are probable and can be reasonably estimated. For involuntary severance benefits incremental to its ongoing severance plan benefits, the fair value of the obligation is expensed at the communication date if there are no future service requirements or over the required future service period. Duke Energy also offers special termination benefits under voluntary severance programs. Special termination benefits are recorded immediately upon employee acceptance absent a significant retention period. Otherwise, the cost is recorded over the remaining service period. Employee acceptance of voluntary severance

benefits is determined by management based on the facts and circumstances of the benefits being offered. See Note 20 for further information.

Guarantees

If necessary, liabilities are recognized at the time of issuance or material modification of a guarantee for the estimated fair value of the obligation it assumes. Fair value is estimated using a probability-weighted approach. The obligation is reduced over the term of the guarantee or related contract in a systematic and rational method as risk is reduced. Any additional contingent loss for guarantee contracts subsequent to the initial recognition of a liability is accounted for and recognized at the time a loss is probable and can be reasonably estimated. See Note 7 for further information.

Stock-Based Compensation

Stock-based compensation represents costs related to stock-based awards granted to employees and Board of Directors members. Duke Energy recognizes stock-based compensation based upon the estimated fair value of awards, net of estimated forfeitures at the date of issuance. The recognition period for these costs begins at either the applicable service inception date or grant date and continues throughout the requisite service period. Compensation cost is recognized as expense or capitalized as a component of property, plant and equipment. See Note 21 for further information.

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and foreign jurisdictional returns. The Subsidiary Registrants are parties to a tax-sharing agreement with Duke Energy. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. ITCs associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

Accumulated deferred income taxes are valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. If Duke Energy's estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, revised to incorporate new accounting principles, or changes in the expected timing or manner of the reversal then Duke Energy's results of operations could be impacted.

Tax-related interest and penalties are recorded in Interest Expense and Other Income and Expenses, net in the Consolidated Statements of Operations. See Note 23 for further information.

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Combined Notes to Consolidated Financial Statements – (Continued)

Accounting for Renewable Energy Tax Credits

When Duke Energy receives ITCs on wind or solar facilities, it reduces the basis of the property recorded on the Consolidated Balance Sheets by the amount of the ITC and, therefore, the ITC benefit is ultimately recognized in the statement of operations through reduced depreciation expense. Additionally, certain tax credits and government grants result in an initial tax depreciable base in excess of the book carrying value by an amount equal to one half of the ITC. Deferred tax benefits are recorded as a reduction to income tax expense in the period that the basis difference is created.

Excise Taxes

Certain excise taxes levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis. Otherwise, the taxes are accounted for net. Excise taxes accounted for on a gross basis within both Operating Revenues and Property and other taxes in the Consolidated Statements of Operations were as follows.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$ 405	\$ 376	\$ 362
Duke Energy Carolinas	35	36	31
Progress Energy	241	220	213
Duke Energy Progress	19	19	18
Duke Energy Florida	222	201	195
Duke Energy Ohio	105	98	100
Duke Energy Indiana	22	20	17
Piedmont ^(a)	2	2	

(a) Piedmont's excise taxes were immaterial for the two months ended December 31, 2016, and \$2 million for the year ended October 31, 2016.

Dividend Restrictions and Unappropriated Retained Earnings

Duke Energy does not have any legal, regulatory or other restrictions on paying common stock dividends to shareholders. However, as further described in Note 4, due to conditions established by regulators in conjunction with merger transaction approvals, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Indiana and Piedmont have restrictions on paying dividends or otherwise advancing funds to Duke Energy. At December 31, 2018, and 2017, an insignificant amount of Duke Energy's consolidated Retained earnings balance represents undistributed earnings of equity method investments.

NEW ACCOUNTING STANDARDS

The new accounting standards adopted for 2018 and 2017 had no material impact on the presentation or results of operations, cash flows or financial position of the Duke Energy Registrants. The following accounting standards were adopted by the Duke Energy Registrants during 2018.

Revenue from Contracts with Customers. In May 2014, the FASB issued revised accounting guidance for revenue recognition from contracts with customers. The core principle of this guidance is that an entity should recognize

revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration expected in exchange for those goods or services. The amendments also required disclosure of sufficient information to allow users to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. The majority of Duke Energy's revenue is in scope of the new guidance. Other revenue arrangements, such as alternative revenue programs and certain PPAs and lighting agreements accounted for as leases, are excluded from the scope of this guidance and, therefore, are accounted for and evaluated for separate presentation and disclosure under other relevant accounting guidance.

Duke Energy elected the modified retrospective method of adoption effective January 1, 2018. Under the modified retrospective method of adoption, prior year reported results are not restated. Adoption of this standard did not result in a material change in the timing or pattern of revenue recognition and a cumulative-effect adjustment was not recorded at January 1, 2018. Duke Energy utilized certain practical expedients including applying this guidance to open contracts at the date of adoption, expensing costs to obtain a contract where the amortization period of the asset would have been one year or less, ignoring the effects of a significant financing when the period between transfer of the good or service and payment is one year or less and recognizing revenues for certain contracts under the invoice practical expedient, which allows revenue recognition to be consistent with invoiced amounts (including unbilled estimates) provided certain criteria are met, including consideration of whether the invoiced amounts reasonably represent the value provided to customers.

In preparation for adoption, Duke Energy identified material revenue streams and reviewed representative contracts and tariffs, including those associated with certain long-term customer contracts such as wholesale contracts, PPAs and other customer arrangements. Duke Energy also monitored the activities of the power and utilities industry revenue recognition task force and has reviewed published positions on specific industry issues to evaluate the impact, if any, on Duke Energy's specific contracts and conclusions. Duke Energy applied the available practical expedient to portfolios of tariffs and contracts with similar characteristics. The vast majority of sales, including energy provided to retail customers, are from tariff offerings that provide natural gas or electricity without a defined contractual term ("at-will"). In most circumstances, revenue from contracts with customers is equivalent to the electricity or natural gas supplied and billed in that period (including unbilled estimates). As such, adoption of the new rules did not result in a shift in the timing or pattern of revenue recognition for such sales. While there have been changes to the captions and descriptions of revenues in Duke Energy's financial statements, the most significant impact as a result of adopting the standard are additional disclosures around the nature, amount, timing and uncertainty of revenues and cash flows arising from contracts with customers. See Note 18 for further information.

Financial Instruments Classification and Measurement. On January 1, 2018, Duke Energy adopted FASB guidance, which revised the classification and measurement of certain financial instruments. The adopted guidance changes the presentation of realized and unrealized gains and losses in certain equity securities that were previously recorded in AOCI. These gains and losses are

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now recorded in net income. An entity's equity investments that are accounted for under the equity method of accounting are not included within the scope of the new guidance. This guidance had a minimal impact on the Duke Energy Registrant's Consolidated Statements of Operations and Comprehensive Income as changes in the fair value of most of the Duke Energy Registrants' equity securities are deferred as regulatory assets or liabilities pursuant to accounting guidance for regulated operations. The resulting adjustment of unrealized gains and losses in AOCI to retained earnings was immaterial. The primary impact to Duke Energy as a result of implementing this guidance is adding disclosure requirements to present separately the financial assets and financial liabilities by measurement category and form of financial asset. See Notes 15 and 16 for further information.

Statement of Cash Flows. In November 2016, the FASB issued revised accounting guidance to reduce diversity in practice for the presentation and classification of restricted cash on the Consolidated Statements of Cash Flows. Under the updated guidance, restricted cash and restricted cash equivalents are included within beginning-of-period and end-of-period cash and cash equivalents on the Consolidated Statements of Cash Flows. Duke Energy adopted this guidance on January 1, 2018. The guidance has been applied using a retrospective transition method to each period presented. The adoption by Duke Energy of the revised guidance resulted in a change to the amount of Cash, cash equivalents and restricted cash explained when reconciling the beginning-of-period and end-of-period total amounts shown on the Consolidated Statements of Cash Flows. In addition, a reconciliation has been provided of Cash, cash equivalents and restricted cash reported within the Consolidated Balance Sheets that sums to the total of the same such amounts in the Consolidated Statements of Cash Flows. Prior to adoption, the Duke Energy Registrants reflected changes in noncurrent restricted cash within Cash Flows from Investing Activities and changes in current restricted cash within Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows.

In August 2016, the FASB issued accounting guidance addressing diversity in practice for eight separate cash flow issues. The guidance requires entities to classify distributions received from equity method investees using either the cumulative earnings approach or the nature of the distribution approach. Duke Energy adopted this guidance on January 1, 2018, and elected the nature of distribution approach. This approach requires all distributions received to be categorized based on legal documentation describing the nature of the activities generating the distribution. Cash inflows resulting in a return on investment (surplus) will be reflected in Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows, whereas cash inflows resulting in a return of investment (capital) will be reflected in Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows. The guidance has been applied using the retrospective transition method to each period presented. There are no changes to the Consolidated Statements of Cash Flows for the periods presented as a result of this accounting change.

Retirement Benefits. In March 2017, the FASB issued revised accounting guidance for the presentation of net periodic costs related to benefit plans. Previous guidance required the aggregation of all the components of net periodic costs on the Consolidated Statements of Operations and did not require the disclosure of the location of net periodic costs on the Consolidated Statements of Operations. Under the amended guidance, the service cost component of net periodic costs is included within Operating Income within the same line as other compensation expenses. All other components of net periodic costs are outside of Operating Income. In addition, the updated guidance permits only the service cost component of net periodic costs to be capitalized to Inventory or Property, Plant and Equipment. This represents a change from previous guidance, which permitted all components of net periodic costs to be eligible for capitalization.

Duke Energy adopted this guidance on January 1, 2018. Under previous guidance, Duke Energy presented the total non-capitalized net periodic costs within Operation, maintenance and other on the Consolidated Statements of Operations. The adoption of this guidance resulted in a retrospective change to reclassify the presentation of the non-service cost (benefit) components of net periodic costs to Other income and expenses. Duke Energy utilized the practical expedient for retrospective presentation. The change in components of net periodic costs eligible for capitalization is applicable prospectively. Since Duke Energy's service cost component is greater than the total net periodic costs, the change results in increased capitalization of net periodic costs, higher Operation, maintenance and other and higher Other income and expenses. The resulting prospective impact to Duke Energy is an immaterial increase in Net Income. See Note 22 for further information.

For Duke Energy, the retrospective change resulted in higher Operation, maintenance and other and higher Other income and expenses, net, of \$156 million and \$139 million for the years ended December 31, 2017, and 2016, respectively. There was no change to Net Income for these prior periods.

The following new accounting standards have been issued, but have not yet been adopted by the Duke Energy Registrants, as of December 31, 2018.

Leases. In February 2016, the FASB issued revised accounting guidance for leases. The core principle of this guidance is that a lessee should recognize the assets and liabilities that arise from leases on the balance sheet.

For Duke Energy, this guidance is effective for interim and annual periods beginning January 1, 2019. The guidance will be applied using a modified retrospective approach. Under the modified retrospective approach of adoption, prior year reported results are not restated and a cumulative-effect adjustment, if applicable, is recorded to retained earnings at January 1, 2019. Upon adoption, agreements considered leases for the use of certain aircraft, space on communication towers, industrial equipment, fleet vehicles, fuel transportation (barges and railcars), land and office space will be recognized on the balance sheet. Duke Energy expects to adopt the following practical expedients:

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Practical Expedient	Description	Election
Package of transition practical expedients (for leases commenced prior to adoption date and must be adopted as a package)	Do not need to 1) reassess whether any expired or existing contracts are/or contain leases, 2) reassess the lease classification for any expired or existing leases and 3) reassess initial direct costs for any existing leases.	Duke Energy plans to elect this practical expedient.
Short-term lease expedient (elect by class of underlying asset)	Elect as an accounting policy to not apply the recognition requirements to short-term leases by asset class.	Duke Energy plans to elect this practical expedient for all asset classes.
Lease and non-lease components (elect by class of underlying asset)	Elect as an accounting policy to not separate non-lease components from lease components and instead account for each lease and associated non-lease component as a single lease component by asset class.	Duke Energy plans to elect this practical expedient for all asset classes.
Hindsight expedient (when determining lease term)	Elect to use hindsight to determine the lease term.	Duke Energy plans to elect this practical expedient.
Existing and expired land easements not previously accounted for as leases	Elect to not evaluate existing or expired easements under the new guidance and carry forward current accounting treatment.	Duke Energy plans to elect this practical expedient.
Comparative reporting requirements for initial adoption	Elect to apply transition requirements at adoption date, recognize cumulative effect adjustment to retained earnings in period of adoption and not apply ASC 842 to comparative periods, including disclosures.	Duke Energy plans to elect this practical expedient.
Lessor expedient (elect by class of underlying asset)	Elect as an accounting policy to aggregate non-lease components with the related lease component when specified conditions are met by asset class. Account for the combined component based on its predominant characteristic (revenue or operating lease).	Duke Energy plans to elect this practical expedient for all asset classes.

Duke Energy currently expects to record right-of-use assets and operating lease liabilities on its balance sheet as shown in approximate amounts in the table below:

	(in millions)
Duke Energy	\$ 1,700
Duke Energy Carolinas	150
Progress Energy	850
Duke Energy Progress	400
Duke Energy Florida	450
Duke Energy Ohio	25
Duke Energy Indiana	60
Piedmont	30

In addition to the recognition of operating leases on the balance sheet, Duke Energy expects additional disclosures including both finance and operating lease costs, short-term lease costs, variable lease costs, weighted-average remaining lease term as well as weighted-average discount rates. Duke Energy does not expect a material change to its financial statements from adoption of the new standard for contracts where it is the lessor.

2. ACQUISITIONS AND DISPOSITIONS

ACQUISITIONS

The Duke Energy Registrants consolidate assets and liabilities from acquisitions as of the purchase date and include earnings from acquisitions in consolidated earnings after the purchase date.

2016 Acquisition of Piedmont Natural Gas

On October 3, 2016, Duke Energy acquired all outstanding common stock of Piedmont for a total cash purchase price of \$5.0 billion and assumed Piedmont's existing long-term debt, which had a fair value of approximately

\$2.0 billion at the time of the acquisition. The acquisition provides a foundation for Duke Energy to establish a broader, long-term strategic natural gas infrastructure platform to complement its existing natural gas pipeline investments and regulated natural gas business in the Midwest. In connection with the closing of the acquisition, Piedmont became a wholly owned subsidiary of Duke Energy.

Accounting Charges Related to the Acquisition

Duke Energy incurred pretax transaction and integration costs associated with the acquisition of \$84 million, \$103 million and \$439 million for the years ended December 31, 2018, 2017 and 2016, respectively. Amounts recorded on

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the Consolidated Statements of Operations in 2018 and 2017 were primarily system integration costs of \$78 million and \$71 million, respectively, related to combining the various operational and financial systems of Duke Energy and Piedmont, including a one-time software impairment resulting from planned accounting system and process integration in 2017. A \$7 million charge was recorded within Impairment Charges, with the remaining \$64 million recorded within Operation, maintenance and other in 2017.

Amounts recorded in 2016 include:

- Interest expense of \$234 million related to the acquisition financing, including realized losses on forward-starting interest rate swaps of \$190 million. See Note 14 for additional information on the swaps.
- Charges of \$104 million related to commitments made in conjunction with the transaction, including charitable contributions and a one-time bill credit to Piedmont customers. \$10 million was recorded as a reduction in Operating Revenues, with the remaining \$94 million recorded within Operation, maintenance and other.
- Other transaction and integration costs of \$101 million recorded to Operation, maintenance and other, including professional fees and severance charges.

The majority of transition and integration activities were completed by the end of 2018.

Pro Forma Financial Information

The following unaudited pro forma financial information reflects the combined results of operations of Duke Energy and Piedmont as if the merger had occurred as of January 1, 2015. The pro forma financial information does not include potential cost savings, intercompany revenues, Piedmont's earnings from a certain equity method investment sold immediately prior to the merger or non-recurring transaction and integration costs incurred by Duke Energy and Piedmont. The after-tax transaction and integration costs incurred by Duke Energy and Piedmont were \$279 million for the year ended December 31, 2016.

This information has been presented for illustrative purposes only and is not necessarily indicative of the consolidated results of operations that would have been achieved or the future consolidated results of operations of Duke Energy.

	Year Ended December 31,
(in millions)	2016
Operating Revenues	\$ 23,504
Net Income Attributable to Duke Energy Corporation	2,442

Piedmont's Earnings

Piedmont's revenues and net income included in Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2016, were \$367 million and \$20 million, respectively. Piedmont's revenues and net income for the year ended December 31, 2016, include the impact of non-recurring transaction costs of \$10 million and \$46 million, respectively.

DISPOSITIONS

For the years ended December 31, 2018, and 2017, the Income (Loss) from Discontinued Operations, net of tax, was immaterial. The following table summarizes the Loss from Discontinued Operations, net of tax recorded on Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2016:

	Year Ended December 31,
(in millions)	2016
International Disposal Group	\$ (534)
Other ^(a)	126
Loss from Discontinued Operations, net of tax	\$ (408)

(a) Amount represents an income tax benefit resulting from immaterial out of period deferred tax liability adjustments for previously sold businesses not related to the International Disposal Group.

2016 Sale of International Energy

In February 2016, Duke Energy announced it had initiated a process to divest the International Disposal Group, and in October 2016, announced it had entered into two separate purchase and sale agreements to execute the divestiture. Both sales closed in December of 2016, resulting in available cash proceeds of \$1.9 billion, excluding transaction costs. Proceeds were primarily used to reduce the Parent debt. Existing favorable tax attributes result in no immediate U.S. federal-level cash tax impacts. Details of each transaction are as follows:

- On December 20, 2016, Duke Energy closed on the sale of its ownership interests in businesses in Argentina, Chile, Ecuador, El Salvador, Guatemala and Peru to I Squared Capital. The assets sold included approximately 2,230 MW of hydroelectric and natural gas generation capacity, transmission infrastructure and natural gas processing facilities. I Squared Capital purchased the businesses for an enterprise value of \$1.2 billion.
- On December 29, 2016, Duke Energy closed on the sale of its Brazilian business, which included approximately 2,090 MW of hydroelectric generation capacity, to CTG for an enterprise value of \$1.2 billion. With the closing of the CTG deal, Duke Energy finalized its exit from the Latin American market.

Assets Held For Sale and Discontinued Operations

As a result of the transactions, the International Disposal Group was classified as held for sale and as discontinued operations in the fourth quarter of 2016. Interest expense directly associated with the International Disposal Group was allocated to discontinued operations. No interest from corporate level debt was allocated to discontinued operations.

The following table presents the results of the International Disposal Group for the year ended December 31, 2016, which are included in Loss from Discontinued Operations, net of tax in Duke Energy's Consolidated Statements of Operations.

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(in millions)	Year Ended December 31,
	2016
Operating Revenues	\$ 988
Fuel used in electric generation and purchased power	227
Cost of natural gas	43
Operation, maintenance and other	341
Depreciation and amortization ^(a)	62
Property and other taxes	15
Impairment charges ^(b)	194
(Losses) Gains on Sales of Other Assets and Other, net	(3)
Other Income and Expenses, net	58
Interest Expense	82
Pretax loss on disposal ^(c)	(514)
Loss before income taxes ^(d)	(435)
Income tax expense ^{(e)(f)}	99
Loss from discontinued operations of the International Disposal Group	\$ (534)

- (a) Upon meeting the criteria for assets held for sale, beginning in the fourth quarter of 2016 depreciation expense ceased.
- (b) In conjunction with the advancements of marketing efforts during 2016, Duke Energy performed recoverability tests of the long-lived asset groups of International Energy. As a result, Duke Energy determined the carrying value of certain assets in Central America was not fully recoverable and recorded a pretax impairment charge of \$194 million. The charge represents the excess of carrying value over the estimated fair value of the assets, which was based on a Level 3 Fair Value measurement that was primarily determined from the income approach using discounted cash flows but also considered market information obtained in 2016.
- (c) The pretax loss on disposal includes the recognition of cumulative foreign currency translation losses of \$620 million as of the disposal date. See the Consolidated Statements of Changes in Equity for additional information.
- (d) Pretax Loss attributable to Duke Energy Corporation was \$(445) million for the year ended December 31, 2016.
- (e) Amount includes \$126 million of income tax expense on the disposal, which primarily reflects in-country taxes incurred as a result of the sale. The after-tax loss on disposal was \$640 million.
- (f) Amount includes an income tax benefit of \$95 million. See Note 23, "Income Taxes," for additional information.

Duke Energy has elected not to separately disclose discontinued operations on the Consolidated Statements of Cash Flows. The following table summarizes Duke Energy's cash flows from discontinued operations related to the International Disposal Group.

(in millions)	Year Ended December 31,
	2016
Cash flows provided by (used in):	
Operating activities	\$ 204
Investing activities	(434)

Other Sale Related Matters

During 2017, Duke Energy provided certain transition services to CTG and I Squared Capital. Cash flows related to providing the transition services were not material as of December 31, 2017. All transition services related to the International Disposal Group ended in 2017. Additionally, Duke Energy will reimburse CTG and I Squared Capital for all tax obligations arising from the period preceding consummation on the transactions, and recorded a liability of \$54 million and \$78 million as of December 31, 2018, and 2017, respectively. Duke Energy has not recorded any other liabilities, contingent liabilities or indemnifications related to the International Disposal Group.

3. BUSINESS SEGMENTS

Reportable segments are determined based on information used by the chief operating decision-maker in deciding how to allocate resources and evaluate the performance of the business. Duke Energy evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income, as discussed below, includes intercompany revenues and expenses that are eliminated on the Consolidated Financial Statements. Certain governance costs are allocated to each segment. In addition, direct interest expense and income taxes are included in segment income.

Products and services are sold between affiliate companies and reportable segments of Duke Energy at cost. Segment assets as presented in the tables that follow exclude all intercompany assets.

Duke Energy

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

The Electric Utilities and Infrastructure segment includes Duke Energy's regulated electric utilities in the Carolinas, Florida and the Midwest. The regulated electric utilities conduct operations through the Subsidiary Registrants that are substantially all regulated and, accordingly, qualify for regulatory accounting treatment. Electric Utilities and Infrastructure also includes Duke Energy's commercial electric transmission infrastructure investments.

The Gas Utilities and Infrastructure segment includes Piedmont, Duke Energy's natural gas local distribution companies in Ohio and Kentucky, and Duke Energy's natural gas storage and midstream pipeline investments. Gas Utilities and Infrastructure's operations are substantially all regulated and, accordingly, qualify for regulatory accounting treatment.

The Commercial Renewables segment is primarily comprised of nonregulated utility scale wind and solar generation assets located throughout the U.S.

The remainder of Duke Energy's operations is presented as Other, which is primarily comprised of interest expense on holding company debt, unallocated corporate costs and Duke Energy's wholly owned captive insurance company, Bison. Other also includes Duke Energy's interest in NMC. See Note 12 for additional information on the investment in NMC.

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Business segment information is presented in the following tables. Segment assets presented exclude intercompany assets.

(in millions)	Year Ended December 31, 2018						
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	Total
Unaffiliated Revenues	\$ 22,242	\$ 1,783	\$ 477	\$ 24,502	\$ 19	\$ —	\$ 24,521
Intersegment Revenues	31	98	—	129	70	(199)	—
Total Revenues	\$ 22,273	\$ 1,881	\$ 477	\$ 24,631	\$ 89	\$ (199)	\$ 24,521
Interest Expense	\$ 1,288	\$ 106	\$ 88	\$ 1,482	\$ 657	\$ (45)	\$ 2,094
Depreciation and amortization	3,523	245	155	3,923	152	(1)	4,074
Equity in earnings (losses) of unconsolidated affiliates	5	27	(1)	31	52	—	83
Income tax expense (benefit) ^(a)	799	78	(147)	730	(282)	—	448
Segment income (loss) ^{(b)(c)(d)(e)}	3,058	274	9	3,341	(694)	—	2,647
Add back noncontrolling interest component							(22)
Income from discontinued operations, net of tax							19
Net income							\$ 2,644
Capital investments expenditures and acquisitions	\$ 8,086	\$ 1,133	\$ 193	\$ 9,412	\$ 256	\$ —	\$ 9,668
Segment assets	125,364	12,361	4,204	141,929	3,275	188	145,392

- (a) All segments include adjustments to the December 31, 2017 estimate of the income tax effects of the Tax Act. Electric Utilities and Infrastructure includes a \$24 million expense, Gas Utilities and Infrastructure includes a \$1 million expense, Commercial Renewables includes a \$3 million benefit and Other includes a \$2 million benefit. See Note 23 for additional information.
- (b) Electric Utilities and Infrastructure includes after-tax regulatory and legislative impairment charges of \$202 million related to rate case orders, settlements or other actions of regulators or legislative bodies and an after-tax impairment charge of \$46 million related to the Citrus County CC at Duke Energy Florida. See Note 4 for additional information.
- (c) Gas Utilities and Infrastructure includes an after-tax impairment charge of \$42 million for the investment in Constitution. See Note 12 for additional information.
- (d) Commercial Renewables includes an impairment charge of \$91 million, net of \$2 million Noncontrolling interests, related to goodwill. See Note 11 for additional information.
- (e) Other includes \$85 million of after-tax costs to achieve the Piedmont merger, \$144 million of after-tax severance charges related to a companywide initiative and an \$82 million after-tax loss on the sale of the retired Beckjord Generating Station described below. For additional information, see Note 2 for the Piedmont Merger and Note 20 for severance charges.

In February 2018, Duke Energy sold Beckjord, a nonregulated facility retired during 2014, and recorded a pretax loss of \$106 million within (Losses) Gains on Sales of Other Assets and Other, net and \$1 million within Operation, maintenance and other on Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2018. The sale included the transfer of coal ash basins and other real property and indemnification from any and all potential future claims related to the property, whether arising under environmental laws or otherwise.

(in millions)	Year Ended December 31, 2017						
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	Total
Unaffiliated Revenues	\$ 21,300	\$ 1,743	\$ 460	\$ 23,503	\$ 62	\$ —	\$ 23,565
Intersegment Revenues	31	93	—	124	76	(200)	—
Total Revenues	\$ 21,331	\$ 1,836	\$ 460	\$ 23,627	\$ 138	\$ (200)	\$ 23,565
Interest Expense	\$ 1,240	\$ 105	\$ 87	\$ 1,432	\$ 574	\$ (20)	\$ 1,986
Depreciation and amortization	3,010	231	155	3,396	131	—	3,527
Equity in earnings (losses) of unconsolidated affiliates	5	62	(5)	62	57	—	119
Income tax expense (benefit) ^(a)	1,355	116	(628)	843	353	—	1,196
Segment income (loss) ^{(b)(c)(d)}	3,210	319	441	3,970	(905)	—	3,065
Add back noncontrolling interest component							5
Loss from discontinued operations, net of tax							(6)
Net income							\$ 3,064
Capital investments expenditures and acquisitions	\$ 7,024	\$ 907	\$ 92	\$ 8,023	\$ 175	\$ —	\$ 8,198
Segment assets	119,423	11,462	4,156	135,041	2,685	188	137,914

- (a) All segments include impacts of the Tax Act. Electric Utilities and Infrastructure includes a \$231 million benefit, Gas Utilities and Infrastructure includes a \$26 million benefit, Commercial Renewables includes a \$442 million benefit and Other includes charges of \$597 million.
- (b) Electric Utilities and Infrastructure includes after-tax regulatory settlement charges of \$98 million. See Note 4 for additional information.
- (c) Commercial Renewables includes after-tax impairment charges of \$74 million related to certain wind projects and the Energy Management Solutions reporting unit. See Notes 10 and 11 for additional information.
- (d) Other includes \$64 million of after-tax costs to achieve the Piedmont merger. See Note 2 for additional information.

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2016						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 21,336	\$ 875	\$ 484	\$ 22,695	\$ 48	\$ —	\$ 22,743
Intersegment Revenues	30	26	—	56	69	(125)	—
Total Revenues	\$ 21,366	\$ 901	\$ 484	\$ 22,751	\$ 117	\$ (125)	\$ 22,743
Interest Expense	\$ 1,136	\$ 46	\$ 53	\$ 1,235	\$ 693	\$ (12)	\$ 1,916
Depreciation and amortization	2,897	115	130	3,142	152	—	3,294
Equity in earnings (losses) of unconsolidated affiliates ^(a)	5	19	(82)	(58)	43	—	(15)
Income tax expense (benefit)	1,672	90	(160)	1,602	(446)	—	1,156
Segment income (loss) ^{(b)(c)}	3,040	152	23	3,215	(645)	1	2,571
Add back noncontrolling interest component							7
Loss from discontinued operations, net of tax ^(d)							(408)
Net income							\$ 2,170
Capital investments expenditures and acquisitions ^(e)	\$ 6,649	\$ 5,519	\$ 857	\$ 13,025	\$ 190	\$ —	\$ 13,215
Segment assets	114,993	10,760	4,377	130,130	2,443	188	132,761

- (a) Commercial Renewables includes a pretax impairment charge of \$71 million. See Note 12 for additional information.
(b) Other includes \$329 million of after-tax costs to achieve mergers. See Note 2 for additional information on costs related to the Piedmont merger.
(c) Other includes after-tax charges of \$57 million related to cost savings initiatives. See Note 20 for further information.
(d) Includes a loss on sale of the International Disposal Group. Refer to Note 2 for further information.
(e) Other includes \$26 million of capital investment expenditures related to the International Disposal Group. Gas Utilities and Infrastructure includes the Piedmont acquisition of \$5 billion. See Note 2 for more information on the Piedmont acquisition.

Geographical Information

All assets and revenues from continuing operations are within the U.S.

Major Customers

For the year ended December 31, 2018, revenues from one customer of Duke Energy Progress are \$633 million. Duke Energy Progress has one reportable segment, Electric Utilities and Infrastructure. No other Subsidiary Registrant has an individual customer representing more than 10 percent of its revenues.

Products and Services

The following table summarizes revenues of the reportable segments by type.

(in millions)	Retail Electric	Wholesale Electric	Retail Natural Gas	Other	Total Revenues
2018					
Electric Utilities and Infrastructure	\$ 19,013	\$ 2,345	\$ —	\$ 915	\$ 22,273
Gas Utilities and Infrastructure	—	—	1,817	64	1,881
Commercial Renewables	—	375	—	102	477
Total Reportable Segments	\$ 19,013	\$ 2,720	\$ 1,817	\$ 1,081	\$ 24,631
2017					
Electric Utilities and Infrastructure	\$ 18,177	\$ 2,104	\$ —	\$ 1,050	\$ 21,331
Gas Utilities and Infrastructure	—	—	1,732	104	1,836
Commercial Renewables	—	375	—	85	460
Total Reportable Segments	\$ 18,177	\$ 2,479	\$ 1,732	\$ 1,239	\$ 23,627
2016					
Electric Utilities and Infrastructure	\$ 18,338	\$ 2,095	\$ —	\$ 933	\$ 21,366
Gas Utilities and Infrastructure	—	—	871	30	901
Commercial Renewables	—	303	—	181	484
Total Reportable Segments	\$ 18,338	\$ 2,398	\$ 871	\$ 1,144	\$ 22,751

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Ohio

Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure.

Electric Utilities and Infrastructure transmits and distributes electricity in portions of Ohio and generates, distributes and sells electricity in portions of Northern Kentucky. Gas Utilities and Infrastructure transports and sells natural gas in portions of Ohio and Northern Kentucky. Both reportable segments conduct operations primarily through Duke Energy Ohio and its wholly owned subsidiary, Duke Energy Kentucky.

The remainder of Duke Energy Ohio's operations is presented as Other. In December 2018, the PUCO approved an order which allows the recovery or credit of revenues and expenses related to Duke Energy Ohio's contractual arrangement to buy power from OVEC power plants. Due to the change in regulatory treatment of these amounts, OVEC revenues and expenses are now reflected in the Electric Utilities and Infrastructure segment. Previously, OVEC revenues and expense were included in Other. These amounts are deemed immaterial for Duke Energy Ohio. Therefore, no prior period amounts were restated. See Note 4 for additional information on the PUCO order.

All Duke Energy Ohio assets and revenues from continuing operations are within the U.S.

(in millions)	Year Ended December 31, 2018				
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Total
Total revenues	\$ 1,450	\$ 506	\$ 1,956	\$ 1	\$ 1,957
Interest expense	\$ 67	\$ 24	\$ 91	\$ 1	\$ 92
Depreciation and amortization	183	85	268	—	268
Income tax expense (benefit)	47	24	71	(28)	43
Segment income (loss)/Net income ^(a)	186	93	279	(103)	\$ 176
Capital expenditures	\$ 655	\$ 172	\$ 827	\$ —	\$ 827
Segment assets	5,643	2,874	8,517	38	8,555

(a) Other includes the loss on the sale of Beckjord, see discussion above.

(in millions)	Year Ended December 31, 2017					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,373	\$ 508	\$ 1,881	\$ 42	\$ —	\$ 1,923
Interest expense	\$ 62	\$ 28	\$ 90	\$ 1	\$ —	\$ 91
Depreciation and amortization	178	83	261	—	—	261
Income tax expense (benefit)	40	39	79	(20)	—	59
Segment income (loss)	138	85	223	(30)	—	193
Loss from discontinued operations, net of tax	—	—	—	—	—	(1)
Net income	—	—	—	—	—	\$ 192
Capital expenditures	\$ 491	\$ 195	\$ 686	\$ —	\$ —	\$ 686
Segment assets	5,066	2,758	7,824	66	(15)	7,875

(in millions)	Year Ended December 31, 2016					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,410	\$ 503	\$ 1,913	\$ 31	\$ —	\$ 1,944
Interest expense	\$ 58	\$ 27	\$ 85	\$ 1	\$ —	\$ 86
Depreciation and amortization	151	80	231	2	—	233
Income tax expense (benefit)	55	44	99	(21)	—	78
Segment income (loss)	154	77	231	(39)	—	192
Income from discontinued operations, net of tax	—	—	—	—	—	36
Net income	—	—	—	—	—	\$ 228
Capital expenditures	\$ 322	\$ 154	\$ 476	\$ —	\$ —	\$ 476
Segment assets	4,782	2,696	7,478	62	(12)	7,528

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Combined Notes to Consolidated Financial Statements – (Continued)

4. REGULATORY MATTERS

REGULATORY ASSETS AND LIABILITIES

The Duke Energy Registrants record regulatory assets and liabilities that result from the ratemaking process. See Note 1 for further information.
The following tables present the regulatory assets and liabilities recorded on the Consolidated Balance Sheets of Duke Energy and Progress Energy. See separate tables below for balances by individual registrant.

(in millions)	Duke Energy		Progress Energy	
	December 31,		December 31,	
	2018	2017	2018	2017
Regulatory Assets				
AROs – coal ash	\$ 4,255	\$ 4,025	\$2,061	\$1,984
AROs – nuclear and other	772	852	601	655
Accrued pension and OPEB	2,654	2,249	1,074	906
Retired generation facilities	445	480	367	386
Debt fair value adjustment	1,099	1,197	—	—
Deferred asset – Lee COLA	383	—	—	—
Storm cost deferrals	1,117	531	953	526
Nuclear asset securitized balance, net	1,093	1,142	1,093	1,142
Hedge costs deferrals	204	234	74	94
Derivatives – natural gas supply contracts	141	142	—	—
Demand side management (DSM)/Energy efficiency (EE)	449	530	256	281
Grid modernization	31	39	—	—
Vacation accrual	213	213	41	42
Deferred fuel and purchased power	838	507	600	349
Nuclear deferral	133	119	46	35
Post-in-service carrying costs (PISCC) and deferred operating expenses	320	366	36	38
Transmission expansion obligation	39	46	—	—
Manufactured gas plant (MGP)	99	91	—	—
Advanced metering infrastructure (AMI)	367	362	127	150
NCEMPA deferrals	50	53	50	53
East Bend deferrals	47	45	—	—
Deferred pipeline integrity costs	65	54	—	—
Amounts due from customers	24	64	—	—
Other	784	538	322	110
Total regulatory assets	15,622	13,879	7,701	6,751
Less: current portion	2,005	1,437	1,137	741
Total noncurrent regulatory assets	\$13,617	\$12,442	\$6,564	\$6,010
Regulatory Liabilities				
Costs of removal	\$ 5,421	\$ 5,968	\$2,135	\$2,537
AROs – nuclear and other	538	806	—	—
Net regulatory liability related to income taxes	8,058	8,113	2,710	2,802
Amounts to be refunded to customers	34	10	—	—
Storm reserve	—	20	—	—
Accrued pension and OPEB	301	146	149	—
Deferred fuel and purchased power	16	47	16	1
Other	1,064	622	319	179
Total regulatory liabilities	15,432	15,732	5,329	5,519
Less: current portion	598	402	280	213
Total noncurrent regulatory liabilities	\$14,834	\$15,330	\$5,049	\$5,306

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Combined Notes to Consolidated Financial Statements – (Continued)

Descriptions of regulatory assets and liabilities summarized in the tables above and below follow. See tables below for recovery and amortization periods at the separate registrants.

AROs – coal ash. Represents deferred depreciation and accretion related to the legal obligation to close ash basins. The costs are deferred until recovery treatment has been determined. See Notes 1 and 9 for additional information.

AROs – nuclear and other. Represents regulatory assets or liabilities, including deferred depreciation and accretion, related to legal obligations associated with the future retirement of property, plant and equipment, excluding amounts related to coal ash. The AROs relate primarily to decommissioning nuclear power facilities. The amounts also include certain deferred gains and losses on NDTF investments. See Notes 1 and 9 for additional information.

Accrued pension and OPEB. Accrued pension and OPEB represent regulatory assets and liabilities related to each of the Duke Energy Registrants' respective shares of unrecognized actuarial gains and losses and unrecognized prior service cost and credit attributable to Duke Energy's pension plans and OPEB plans. The regulatory asset or liability is amortized with the recognition of actuarial gains and losses and prior service cost and credit to net periodic benefit costs for pension and OPEB plans. The accrued pension and OPEB regulatory asset is expected to be recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

Retired generation facilities. Represents amounts to be recovered for facilities that have been retired and are probable of recovery.

Debt fair value adjustment. Purchase accounting adjustments recorded to state the carrying value of Progress Energy and Piedmont at fair value in connection with the 2012 and 2016 mergers, respectively. Amount is amortized over the life of the related debt.

Net regulatory asset or liability related to income taxes. Amounts for all registrants include regulatory liabilities related primarily to impacts from the Tax Act. See Note 23 for additional information. Amounts have no immediate impact on rate base as regulatory assets are offset by deferred tax liabilities.

Deferred asset – Lee COLA. Represents deferred costs incurred for the canceled Lee nuclear project.

Storm cost deferrals. Represents deferred incremental costs incurred related to extraordinary weather-related events.

Nuclear asset securitized balance, net. Represents the balance associated with Crystal River Unit 3 retirement approved for recovery by the FPSC on September 15, 2015, and the upfront financing costs securitized in 2016 with issuance of the associated bonds. The regulatory asset balance is net of the AFUDC equity portion.

Hedge costs and other deferrals. Amounts relate to unrealized gains and losses on derivatives recorded as a regulatory asset or liability, respectively, until the contracts are settled.

Derivatives – natural gas supply contracts. Represents costs for certain long-dated, fixed quantity forward gas supply contracts, which are recoverable through PGA clauses.

DSM/EE. Deferred costs related to various DSM and EE programs recoverable through various mechanisms.

Grid modernization. Amounts represent deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Vacation accrual. Represents vacation entitlement, which is generally recovered in the following year.

Deferred fuel and purchased power. Represents certain energy-related costs that are recoverable or refundable as approved by the applicable regulatory body.

Nuclear deferral. Includes amounts related to leveling nuclear plant outage costs, which allows for the recognition of nuclear outage expenses over the refueling cycle rather than when the outage occurs, resulting in the deferral of operations and maintenance costs associated with refueling.

Post-in-service carrying costs and deferred operating expenses. Represents deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Transmission expansion obligation. Represents transmission expansion obligations related to Duke Energy Ohio's withdrawal from Midcontinent Independent System Operator, Inc. (MISO).

MGP. Represents remediation costs incurred at former MGP sites and the deferral of costs to be incurred at Duke Energy Ohio's East End and West End sites.

AMI. Represents deferred costs related to the installation of AMI meters and remaining net book value of non-AMI meters to be replaced at Duke Energy Carolinas, net book value of existing meters at Duke Energy Florida, Duke Energy Progress and Duke Energy Ohio and expected future recovery of net book value of electromechanical meters that have been replaced with AMI meters at Duke Energy Indiana.

NCEMPA deferrals. Represents retail allocated cost deferrals and returns associated with the additional ownership interest in assets acquired from NCEMPA in 2015.

East Bend deferrals. Represents both deferred operating expenses and deferred depreciation as well as carrying costs on the portion of East Bend that was acquired from Dayton Power and Light and that had been previously operated as a jointly owned facility.

Deferred pipeline integrity costs. Represents pipeline integrity management costs in compliance with federal regulations recovered through a rider mechanism.

Amounts due from customers. Relates primarily to margin decoupling and IMR recovery mechanisms.

Costs of removal. Represents funds received from customers to cover the future removal of property, plant and equipment from retired or abandoned sites as property is retired. Also includes certain deferred gains on NDTF investments.

Amounts to be refunded to customers. Represents required rate reductions to retail customers by the applicable regulatory body.

Storm reserve. Amounts are used to offset future incurred costs for named storms as approved by regulatory commissions.

RESTRICTIONS ON THE ABILITY OF CERTAIN SUBSIDIARIES TO MAKE DIVIDENDS, ADVANCES AND LOANS TO DUKE ENERGY

As a condition to the approval of merger transactions, the NCUC, PSCSC, PUCO, KPSC and IURC imposed conditions on the ability of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Kentucky, Duke Energy Indiana and Piedmont to transfer funds to Duke Energy through loans or advances, as well as restricted amounts available to pay dividends to Duke Energy. Certain subsidiaries may transfer funds to the parent by obtaining approval of the respective state regulatory commissions. These conditions imposed restrictions on the ability of the public utility subsidiaries to pay cash dividends as discussed below.

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Amounts restricted as a result of these provisions were not material at December 31, 2018.

Additionally, certain other subsidiaries of Duke Energy have restrictions on their ability to dividend, loan or advance funds to Duke Energy due to specific legal or regulatory restrictions, including, but not limited to, minimum working capital and tangible net worth requirements.

The restrictions discussed below were not a material amount of Duke Energy's and Progress Energy's net assets at December 31, 2018.

Duke Energy Carolinas

Duke Energy Carolinas must limit cumulative distributions subsequent to mergers to (i) the amount of retained earnings on the day prior to the closing of the mergers, plus (ii) any future earnings recorded.

Duke Energy Progress

Duke Energy Progress must limit cumulative distributions subsequent to the mergers between Duke Energy and Progress Energy and Duke Energy and Piedmont to (i) the amount of retained earnings on the day prior to the closing of the respective mergers, plus (ii) any future earnings recorded.

Duke Energy Ohio

Duke Energy Ohio will not declare and pay dividends out of capital or unearned surplus without the prior authorization of the PUCO. Duke Energy Ohio received FERC and PUCO approval to pay dividends from its equity accounts that are reflective of the amount that it would have in its retained earnings account had push-down accounting for the Cinergy merger not been applied to Duke Energy Ohio's balance sheet. The conditions include a commitment from Duke Energy Ohio that equity, adjusted to remove the impacts of push-down accounting, will not fall below 30 percent of total capital.

Duke Energy Kentucky is required to pay dividends solely out of retained earnings and to maintain a minimum of 35 percent equity in its capital structure.

Duke Energy Indiana

Duke Energy Indiana must limit cumulative distributions subsequent to the merger between Duke Energy and Cinergy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded. In addition, Duke Energy Indiana will not declare and pay dividends out of capital or unearned surplus without prior authorization of the IURC.

Piedmont

Piedmont must limit cumulative distributions subsequent to the acquisition of Piedmont by Duke Energy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded.

RATE-RELATED INFORMATION

The NCUIC, PSCSC, FPSC, IURC, PUCO, TPUC and KPSC approve rates for retail electric and natural gas services within their states. The FERC approves rates for electric sales to wholesale customers served under cost-based rates (excluding Ohio and Indiana), as well as sales of transmission service. The FERC also regulates certification and siting of new interstate natural gas pipeline projects.

Duke Energy Carolinas and Duke Energy Progress

Grid Improvement – South Carolina

On June 22, 2018, Duke Energy Carolinas and Duke Energy Progress filed a joint petition with the PSCSC seeking an accounting order authorizing deferral of certain costs incurred in connection with grid reliability, resiliency and modernization work that is being performed under the companies' grid improvement initiative. On October 3, 2018, the PSCSC granted Duke Energy Carolinas' and Duke Energy Progress' joint petition, which authorizes the deferral of these costs until the rate effective dates of each Company's next general rate case.

Hurricane Florence, Hurricane Michael and Winter Storm Diego

In September 2018, Hurricane Florence made landfall and inflicted severe damage to the Duke Energy Carolinas and Duke Energy Progress territories in North Carolina and South Carolina. Approximately 2 million customers were impacted. The companies incurred approximately \$500 million in incremental operation and maintenance expenses (\$70 million and \$430 million for Duke Energy Carolinas and Duke Energy Progress, respectively) and approximately \$90 million in capital costs (\$5 million and \$85 million for Duke Energy Carolinas and Duke Energy Progress, respectively) which are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, resulting from the hurricane restoration efforts. Most of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. The balance of operation and maintenance expenses are included in Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

In October 2018, the remnants of Hurricane Michael inflicted severe damage to the Duke Energy Carolinas and Duke Energy Progress territories in North Carolina and South Carolina. Approximately 1 million customers were impacted. The companies incurred approximately \$100 million in incremental operation and maintenance expenses (\$75 million and \$25 million for Duke Energy Carolinas and Duke Energy Progress, respectively) and approximately \$21 million in capital costs (\$12 million and \$9 million for Duke Energy Carolinas and Duke Energy Progress, respectively) which are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, resulting from the hurricane restoration efforts. Most of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. The balance of operation and maintenance expenses are included in Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

In December 2018, Winter Storm Diego inflicted severe damage to the Duke Energy Carolinas and Duke Energy Progress territories in North Carolina and South Carolina. Approximately 800,000 customers were impacted. The companies incurred approximately \$85 million in incremental operation and maintenance expenses (\$60 million and \$25 million for Duke Energy Carolinas and Duke Energy Progress, respectively) and approximately \$9 million in capital costs (\$7 million and \$2 million for Duke Energy Carolinas and Duke Energy Progress, respectively) which are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, resulting from the winter storm restoration efforts. Most of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. The balance of operation and maintenance expenses are included in Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

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Combined Notes to Consolidated Financial Statements – (Continued)

On December 21, 2018, Duke Energy Carolinas and Duke Energy Progress filed with the NCUC petitions for approval to defer the incremental costs incurred to a regulatory asset for recovery in the next base rate case. The NCUC issued an order requesting comments on the deferral positions. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for ice storms and Hurricane Matthew, and on January 30, 2019, the PSCSC issued a directive approving the deferral request.

North Carolina State Corporate Income Tax

On December 12, 2018, Duke Energy Carolinas and Duke Energy Progress filed requests to reduce their rates effective January 1, 2019, based on a reduction in North Carolina's corporate income tax rate from 3 to 2.5 percent, as enacted by the General Assembly in Session Law 2017-57, which became law on June 28, 2017, with an effective date of January 1, 2019. On December 17, 2018, the NCUC issued orders approving the Duke Energy Carolinas and Duke Energy Progress rate decrements.

Duke Energy Carolinas

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Carolinas' Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash	\$ 1,725	\$ 1,645	(b)	(b)
Accrued pension and OPEB	581	410		(b)
Retired generation facilities ^(c)	21	29	X	2023
Deferred Asset – Lee COLA	383	—		(b)
Storm cost deferrals	160	—	X	(b)
Hedge costs deferrals ^(d)	101	109	X	2041
DSM/EE	169	210	(b)	(b)
Vacation accrual	78	83	(e)	2019
Deferred fuel and purchased power	196	140	(b)	2020
Nuclear deferral	87	84		2020
PISCC ^(f)	34	35	X	(b)
AMI	176	185	X	(b)
Other	266	222		(b)
Total regulatory assets	3,977	3,152		
Less: current portion	520	299		
Total noncurrent regulatory assets	\$ 3,457	\$ 2,853		
Regulatory Liabilities^(a)				
Costs of removal ^(g)	\$ 1,968	\$ 2,054	X	(b)
ARO – nuclear and other	538	806		(b)
Net regulatory liability related to income taxes ^(d)	3,082	3,028		(b)
Storm reserve ^(h)	—	20		(b)
Accrued pension and OPEB	38	44		(b)
Deferred fuel and purchased power	—	46	(i)	2020
Other	572	359		(b)
Total regulatory liabilities	6,198	6,357		
Less: current portion	199	126		
Total noncurrent regulatory liabilities	\$ 5,999	\$ 6,231		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 23.

(e) Earns a return on outstanding balance in North Carolina.

(f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.

(g) Recovered over the life of the associated assets.

(h) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.

(i) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.

(j) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

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2017 North Carolina Rate Case

On August 25, 2017, Duke Energy Carolinas filed an application with the NCUC for a rate increase for retail customers of approximately \$647 million, which represented an approximate 13.6 percent increase in annual base revenues. The rate increase was driven by capital investments subsequent to the previous base rate case, including the W.S. Lee CC discussed below, grid improvement projects, AML, investments in customer service technologies, costs of complying with CCR regulations and the Coal Ash Act and recovery of costs related to licensing and development of the Lee Nuclear Station discussed below.

On February 28, 2018, Duke Energy Carolinas and the North Carolina Public Staff (Public Staff) filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9 percent and a capital structure of 52 percent equity and 48 percent debt. As a result of the settlement, Duke Energy Carolinas recorded a pretax charge of approximately \$4 million to Operation, maintenance and other on the Consolidated Statements of Operations.

On June 1, 2018, Duke Energy Carolinas and certain intervenors filed a Pilot Grid Rider Agreement and Stipulation (Grid Rider Stipulation) in which the parties agreed to the proposal Duke Energy Carolinas introduced in a post-hearing brief on April 27, 2018, along with additional commitments by Duke Energy Carolinas. Also on June 1, 2018, Duke Energy Carolinas and the Commercial Group filed a Partial Stipulation and Settlement Agreement to be considered in conjunction with the Stipulation.

Components of the Grid Rider Stipulation included:

- Duke Energy Carolinas would recover grid improvement costs through a pilot, three-year Grid Rider except for costs related to targeted undergrounding of power lines, cable and conduit replacement, and power pole replacement;
- Excluded costs were to be deferred with a return until Duke Energy Carolinas' next base rate case proceeding; and
- Costs incurred during the three-year pilot, both rider recoverable and deferred, were subject to a 4.5 percent cumulative cap of total annual electric service revenue.

On June 22, 2018, the NCUC issued an order approving the Stipulation of Partial Settlement and requiring a revenue reduction. The order also included the following material components not covered in the Stipulation:

- Recovery of \$554 million of deferred coal ash basin closure costs over a five-year period with a return at Duke Energy Carolinas' WACC;
- Assessment of a \$70 million management penalty ratably over a five-year period by reducing the annual recovery of the deferred coal ash costs;
- Denial of Duke Energy Carolinas' request for recovery of future estimated ongoing annual coal ash costs of \$201 million with approval to defer such costs with a return at Duke Energy Carolinas' WACC, to be considered for recovery in the next rate case;
- Inclusion in rates of costs related to the W.S. Lee CC, two new solar facilities, and AML deployment as requested;
- Recovery of Lee Nuclear Station licensing and development cost of \$347 million over a 12-year period, but denial of a return on the deferred balance of costs;

- Reduction in revenue related to lower income tax expense resulting from the Tax Act, and a requirement to maintain all excess deferred income tax (EDIT) resulting from the Tax Act in a regulatory liability account pending flow back to customers as approved by the commission at the earlier of three years or Duke Energy Carolinas' next general rate case proceeding; and
- Denial of the proposed Grid Rider Stipulation related to grid improvement costs and denial of deferral accounting treatment of the costs at this time. Duke Energy Carolinas may petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization.

As a result of the Order, Duke Energy Carolinas recorded a pretax charge of approximately \$150 million to Impairment charges and Operation, maintenance and other on the Consolidated Statements of Operations. The charge is primarily related to the denial of a return on the Lee Nuclear Project and for previously recognized return impacted by the coal ash management penalty described above. On July 27, 2018, NCUC approved Duke Energy Carolinas' compliance filing. As a result, revised customer rates were effective on August 1, 2018.

On July 20, 2018, the North Carolina Attorney General filed a Notice of Appeal to the North Carolina Supreme Court from the June 22, 2018, Order Accepting Stipulation, Deciding Contested Issues and Requiring Revenue Reduction issued by the NCUC. The Attorney General contends the commission's order should be reversed and remanded, as it is in excess of the commission's statutory authority; affected by errors of law; unsupported by competent, material and substantial evidence in view of the entire record as submitted; and arbitrary or capricious. The Sierra Club, North Carolina Sustainable Energy Association, North Carolina Justice Center, North Carolina Housing Coalition, Natural Resource Defense Council and Southern Alliance for Clean Energy have also filed Notices of Appeal to the North Carolina Supreme Court from the June 22, 2018, Order Accepting Stipulation, Deciding Contested Issues and Requiring Revenue Reduction. On August 8, 2018, the Public Staff filed a Notice of Cross Appeal to the North Carolina Supreme Court from the June 22, 2018, Order Accepting Stipulation, Deciding Contested Issues and Requiring Revenue Reduction issued by the NCUC. The Public Staff contends the commission's order should be reversed and remanded, as it is affected by errors of law, and is unsupported by substantial evidence with regard to the commission's failure to consider substantial evidence of coal ash related environmental violations. On November 29, 2018, the North Carolina Attorney General's Office filed a motion with the North Carolina Supreme Court requesting the court consolidate the Duke Energy Carolinas and Duke Energy Progress appeals and enter an order adopting the parties' proposed briefing schedule as set out in the filing. On November 29, 2018, the North Carolina Supreme Court adopted a schedule for briefing set forth in the motion to consolidate the Duke Energy Carolinas and Duke Energy Progress appeals. The Appellee response briefs are due July 29, 2019. Duke Energy Carolinas cannot predict the outcome of this matter.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Carolinas filed an application with the PSCSC for a rate increase for retail customers of approximately \$168 million, which represents an approximate 10.0 percent increase in retail revenues. The rate increase is driven by capital investments and environmental compliance progress made by Duke Energy Carolinas since its previous rate case, including

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the further implementation of Duke Energy Carolinas' generation modernization program, which consists of retiring, replacing and upgrading generation plants, investments in customer service technologies and continued investments in base work to maintain its transmission and distribution systems. The request includes net tax benefits resulting from the Tax Act of \$66 million to reflect the change in ongoing tax expense, primarily from the reduction in the federal income tax rate from 35 to 21 percent, and \$46 million to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change and benefits of \$17 million from a reduction in North Carolina state income taxes allocable to South Carolina.

Duke Energy Carolinas also requested approval of its proposed Grid Improvement Plan, adjustments to its Prepaid Advantage Program and a variety of accounting orders related to ongoing costs for environmental compliance, including recovery over a five-year period of \$242 million of deferred coal ash related compliance costs, grid investments between rate changes, incremental depreciation expense, a result of new depreciation rates from the depreciation study approved in the 2017 North Carolina Rate Case above, and the balance of development costs associated with the cancellation of the Lee Nuclear Project. Finally, Duke Energy Carolinas sought approval to establish a reserve and accrual for end of life nuclear costs for nuclear fuel and materials and supplies. An evidentiary hearing is scheduled to begin on March 21, 2019, and a decision and revised customer rates are expected by mid-2019. Duke Energy Carolinas cannot predict the outcome of this matter.

FERC Formula Rate Matter

On July 31, 2017, PMPA filed a complaint with FERC alleging that Duke Energy Carolinas misapplied the formula rate under the PPA between the parties by including in its rates amortization expense associated with regulatory assets and recorded in a certain account without FERC approval. On February 15, 2018, FERC issued an order ruling in favor of PMPA and ordered Duke Energy Carolinas to refund to PMPA all amounts improperly collected under the PPA. Duke Energy Carolinas has issued to PMPA and similarly situated wholesale customers refunds of approximately \$25 million. FERC also set the matter for settlement and hearing. PMPA and other customers filed a protest to Duke Energy Carolinas' refund report claiming that the refunds are inadequate in that (1) Duke Energy Carolinas invoked the limitations periods in the contracts to limit the time period for which the refunds were paid and the customers disagree that this limitation applies, and (2) Duke Energy Carolinas refunded only amounts recovered through a certain account and the customers have asserted that the order applies to all regulatory assets. On July 3, 2018, FERC issued an order accepting Duke Energy Carolinas' refund report and ruling that these two claims are outside the scope of FERC's February order. The settlement agreements and revised formula rates for all parties to the proceeding were filed on December 28, 2018. Duke Energy Carolinas cannot predict the outcome of this matter.

W.S. Lee CC

On April 9, 2014, the PSCSC granted Duke Energy Carolinas and NCEMC a CEPCPN for the construction and operation of a 750-megawatt (MW) combined-cycle natural gas-fired generating plant at Duke Energy Carolinas' existing William States Lee Generating Station in Anderson, South Carolina. Duke Energy Carolinas began construction in July 2015 and its share of the cost to build the facility was approximately \$650 million, including AFUDC. Approximately \$600 million is being recovered through base rate or deferral filings in North Carolina and South Carolina. The remaining amount will be included in future rate filings. The project commenced commercial operation on April 5, 2018. NCEMC owns approximately 13 percent of the project.

Lee Nuclear Station

In December 2007, Duke Energy Carolinas applied to the NRC for COLs for two Westinghouse AP1000 reactors for the proposed William States Lee III Nuclear Station to be located at a site in Cherokee County, South Carolina. The NCUC and PSCSC concurred with the prudence of Duke Energy Carolinas incurring certain project development and preconstruction costs through several separately issued orders, although full cost recovery is not guaranteed. In December 2016, the NRC issued a COL for each reactor. Duke Energy Carolinas is not required to build the nuclear reactors as a result of the COLs being issued.

The Duke Energy Carolinas 2017 North Carolina Rate Case filing discussed above included a request to cancel the development of the Lee Nuclear project, recover incurred licensing and development costs and maintain the license issued by the NRC as an option for potential future development. The cancellation request was due to the Westinghouse bankruptcy filing and other market activity. The NCUC Order issued on June 22, 2018, approved the cancellation of the Lee Nuclear Project, allowed Duke Energy Carolinas to continue to maintain the COLs, provided for recovery of the North Carolina retail allocation of project development costs, including AFUDC accrued through December 31, 2017, over 12 years and disallowed any return on the unamortized balance during the 12-year recovery period.

Given the repeal of certain sections of the Base Load Review Act in South Carolina combined with the cancellation of the project, Duke Energy Carolinas determined that it was no longer probable it would be allowed a return on its share of project development costs attributable to South Carolina. As a result, Duke Energy Carolinas recorded a pretax impairment in the second quarter of 2018 of \$29 million within Impairment charges on the Consolidated Statements of Operations and Comprehensive Income.

South Carolina Petition

On June 22, 2018, Duke Energy Carolinas filed a petition with the PSCSC requesting an accounting order to defer certain costs incurred in connection with the addition of the W.S. Lee CC, the ongoing deployment of Duke Energy Carolinas new billing and Customer Information System and the addition of the Carolinas West Primary Distribution Control Center. This request totaling approximately \$33 million was approved on July 25, 2018.

Sale of Hydroelectric (Hydro) Plants

In May 2018, Duke Energy Carolinas entered an agreement for the sale of five hydro plants with a combined 18.7-MW generation capacity in the Western Carolinas region to Northbrook Energy. The completion of the transaction is subject to approval from FERC for the four FERC-licensed plants, as well as other state regulatory agencies and is contingent upon regulatory approval from the NCUC and PSCSC to defer the total estimated loss on the sale of approximately \$40 million. On July 5, 2018, Duke Energy Carolinas filed with NCUC for approval of the sale of the five hydro plants to Northbrook, to transfer the CPCNs for the four North Carolina hydro plants and to establish a regulatory asset for the North Carolina retail portion of the difference between sales proceeds and net book value. On September 4, 2018, the Public Staff filed comments supporting the CPCN transfer with conditions. On September 18, 2018, Duke Energy Carolinas filed reply comments opposing the Public Staff's proposed conditions. On November 29, 2018, the NCUC issued a procedural order and held an evidentiary hearing on this matter on February 5, 2019. On August 28, 2018, Duke Energy Carolinas filed with PSCSC its Application for Approval of Transfer and Sale of Hydroelectric Generation Facilities, Acceptance for Filing of a Power Purchase Agreement and an Accounting Order to Establish a Regulatory Asset. On September 10, 2018, the ORS provided a letter to the commission stating its

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position on the application and on September 18, 2018, Duke Energy Carolinas requested this matter be carried over to allow Duke Energy Carolinas time to discuss certain accounting issues with the ORS. On August 9, 2018, Duke Energy Carolinas and Northbrook filed a joint Application for Transfer of Licenses with the FERC. On December 27, 2018, the FERC issued its Order Approving Transfer of Licenses (“Order”) for the four FERC-licensed hydro plants. On January 18, 2019, Duke Energy Carolinas and Northbrook Carolina Hydro II, LLC requested a six-month extension of time to comply with the requirement of the Order that Northbrook submit to FERC certified copies of all instruments of conveyance and signed acceptance sheets within 60 days of the date of the Order, given

that compliance by the deadline set in the Order is not possible because the conveyance of the projects is contingent on the receipt of state regulatory approvals, which are not anticipated to be issued by February 25, 2019.

If commission approvals are not received, Duke Energy Carolinas can cancel the sales agreement and retain the hydro facilities. If commission approvals are received, the closing is expected to occur during the second quarter of 2019. After closing, Duke Energy Carolinas will purchase all the capacity and energy generated by these facilities at the avoided cost for five years through power purchase agreements. Duke Energy Carolinas cannot predict the outcome of this matter.

Duke Energy Progress

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Progress’ Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash	\$ 2,051	\$ 1,975	(b)	(b)
AROs – nuclear and other	429	359		(c)
Accrued pension and OPEB	542	430		(b)
Retired generation facilities	148	170	X	(b)
Storm cost deferrals ^(d)	571	150	X	(b)
Hedge costs deferrals	54	64		(b)
DSM/EE ^(e)	235	264	(f)	(g)
Vacation accrual	41	42		2019
Deferred fuel and purchased power	397	130	(h)	2020
Nuclear deferral	46	35		2020
PISCC and deferred operating expenses	36	38	X	2054
AMI	67	75		(b)
NCEMPA deferrals	50	53	(i)	2042
Other	147	74		(b)
Total regulatory assets	4,814	3,859		
Less: current portion	703	352		
Total noncurrent regulatory assets	\$ 4,111	\$ 3,507		
Regulatory Liabilities^(a)				
Costs of removal	\$ 1,878	\$ 2,122	X	(j)
Accrued pension and OPEB	93	---		(b)
Net regulatory liability related to income taxes ^(k)	1,863	1,854		(b)
Deferred fuel and purchased power	---	1	(h)	2020
Other	299	161		(b)
Total regulatory liabilities	4,133	4,138		
Less: current portion	178	139		
Total noncurrent regulatory liabilities	\$ 3,955	\$ 3,999		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Recovery period for costs related to nuclear facilities runs through the decommissioning period of each unit.

(d) South Carolina storm costs are included in rate base.

(e) Included in rate base.

(f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.

(g) South Carolina retail allocated costs are earning a return.

(h) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.

(i) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.

(j) Recovered over the life of the associated assets.

(k) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

(l) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 23.

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2017 North Carolina Rate Case

On June 1, 2017, Duke Energy Progress filed an application with the NCUC for a rate increase for retail customers of approximately \$477 million, which represented an approximate 14.9 percent increase in annual base revenues. Subsequent to the filing, Duke Energy Progress adjusted the requested amount to \$420 million, representing an approximate 13 percent increase. The rate increase is driven by capital investments subsequent to the previous base rate case, costs of complying with CCR regulations and the Coal Ash Act, costs relating to storm recovery, investments in customer service technologies and recovery of costs associated with renewable purchased power.

On December 16, 2016, Duke Energy Progress filed a petition with the NCUC requesting an accounting order to defer certain costs incurred in connection with response to Hurricane Matthew and other significant storms in 2016. The final estimate of incremental operation and maintenance and capital costs of \$116 million was filed with the NCUC in September 2017. On July 10, 2017, the NCUC consolidated Duke Energy Progress' storm deferral request into the Duke Energy Progress rate case docket for decision.

On November 22, 2017, Duke Energy Progress and the Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9 percent and a capital structure of 52 percent equity and 48 percent debt. As a result of the settlement, in 2017 Duke Energy Progress recorded pretax charges totaling approximately \$25 million to Impairment charges and Operation, maintenance and other on the Consolidated Statements of Operations, principally related to disallowances from rate base of certain projects at the Mayo and Sutton plants. On February 23, 2018, the NCUC issued an order approving the stipulation. The order also included the following material components not covered in the stipulation:

- Recovery of the remaining \$234 million of deferred coal ash basin closure costs over a five-year period with a return at Duke Energy Progress' WACC, excluding \$10 million of retail deferred coal ash basin costs related to ash hauling at Duke Energy Progress' Asheville Plant;
- Assessment of a \$30 million management penalty ratably over a five-year period by reducing the annual recovery of the deferred coal ash costs;
- Denial of Duke Energy Progress' request for recovery of future estimated ongoing annual coal ash costs of \$129 million with approval to defer such costs with a return at Duke Energy Progress' WACC, to be considered for recovery in the next rate case; and
- Approval to recover \$51 million of the approximately \$80 million deferred storm costs over a five-year period with amortization beginning in October 2016. The order did not allow the deferral of the associated capital costs or a return on the deferred balance during the deferral period.

The order also impacted certain amounts that were similarly recorded on Duke Energy Carolinas' Consolidated Balance Sheets. As a result of the order, Duke Energy Progress and Duke Energy Carolinas recorded pretax charges of \$68 million and \$14 million, respectively, in the first quarter of 2018 to Impairment charges, Operation, maintenance and other and Interest Expense on the Consolidated Statements of Operations. These charges primarily related to the coal ash basin disallowance and previously recognized return impacted by the coal ash management penalty and deferred storm cost adjustments. Revised customer rates became effective on March 16, 2018.

On May 15, 2018, the Public Staff filed a Notice of Cross Appeal to the North Carolina Supreme Court from the February 23, 2018, Order Accepting Stipulation, Deciding Contested Issues and Granting Partial Rate Increase issued by the NCUC. The Public Staff contend the commission's order should be reversed and remanded, as it is affected by errors of law, and is unsupported by competent, material and substantial evidence in view of the entire record as submitted. The North Carolina Attorney General and Sierra Club have also filed Notices of Appeal to the North Carolina Supreme Court from the February 23, 2018, Order Accepting Stipulation, Deciding Contested Issues and Granting Partial Rate Increase. On November 29, 2018, the North Carolina Attorney General's Office filed a motion with the North Carolina Supreme Court requesting the court consolidate the Duke Energy Progress and Duke Energy Carolinas appeals and enter an order adopting the parties' proposed briefing schedule as set out in the filing. On November 29, 2018, the North Carolina Supreme Court adopted a schedule for briefing set forth in the motion to consolidate the Duke Energy Progress and Duke Energy Carolinas appeals. The Appellee response briefs are due July 29, 2019. Duke Energy Progress cannot predict the outcome of this matter.

2016 South Carolina Rate Case

In December 2016, the PSCSC approved a rate case settlement agreement among the ORS, intervenors and Duke Energy Progress. Terms of the settlement agreement included an approximate \$56 million increase in revenues over a two-year period. An increase of approximately \$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$19 million in revenues was effective January 1, 2018. Duke Energy Progress amortized approximately \$19 million from the cost of removal reserve in 2017. Other settlement terms included a rate of return on equity of 10.1 percent, recovery of coal ash costs incurred from January 1, 2015, through June 30, 2016, over a 15-year period and ongoing deferral of allocated ash basin closure costs from July 1, 2016, until the next base rate case. The settlement also provides that Duke Energy Progress will not seek an increase in rates in South Carolina to occur prior to 2019, with limited exceptions.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Progress filed an application with the PSCSC for a rate increase for retail customers of approximately \$59 million, which represents an approximate 10.3 percent increase in annual base revenues. The rate increase is driven by capital investments and environmental compliance progress made by Duke Energy Progress since its previous rate case, including the further implementation of Duke Energy Progress' generation modernization program, which consists of retiring, replacing and upgrading generation plants, investments in customer service technologies and continued investments in base work to maintain its transmission and distribution systems. The request includes net tax benefits of \$15 million consisting of a \$12 million increase due to the expiration of EDITs related to reductions in North Carolina state income taxes allocable to South Carolina and decreases resulting from the Tax Act of \$17 million to reflect the change in ongoing tax expense, primarily the reduction in the federal income tax rate from 35 to 21 percent, and \$10 million to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change.

Duke Energy Progress also requested approval of its proposed Grid Improvement Plan, approval of a Prepaid Advantage Program and a variety of accounting orders related to ongoing costs for environmental compliance, including recovery over a five-year period of \$51 million of deferred coal ash related compliance costs, AMI deployment, grid investments between rate

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changes and regulatory asset treatment related to the retirement of a generating plant located in Asheville, North Carolina. Finally, Duke Energy Progress sought approval to establish a reserve and accrual for end of life nuclear costs for materials and supplies and nuclear fuel. An evidentiary hearing is scheduled to begin on April 11, 2019, and a decision and revised customer rates are expected by mid-2019. Duke Energy Progress cannot predict the outcome of this matter.

Western Carolinas Modernization Plan

On November 4, 2015, Duke Energy Progress announced a Western Carolinas Modernization Plan, which included retirement of the existing Asheville coal-fired plant, the construction of two 280-MW combined-cycle natural gas plants having dual-fuel capability, with the option to build a third natural gas simple cycle unit in 2023 based upon the outcome of initiatives to reduce the region's power demand. The plan also included upgrades to existing transmission lines and substations, installation of solar generation and a pilot battery storage project. These investments will be made within the next seven years. Duke Energy Progress is also working with the local natural gas distribution company to upgrade an existing natural gas pipeline to serve the natural gas plant.

On March 28, 2016, the NCUC issued an order approving a CPCN for the new combined-cycle natural gas plants, but denying the CPCN for the contingent simple cycle unit without prejudice to Duke Energy Progress to refile for approval in the future. On March 28, 2018, Duke Energy Progress filed an annual progress report for the construction of the combined-cycle plants with the NCUC, with an estimated cost of \$893 million. Site preparation activities for the combined-cycle plants are complete and construction of these plants began in 2017, with an expected in-service date in late 2019.

On October 8, 2018, Duke Energy Progress filed an application with the NCUC for a CPCN to construct the Hot Springs Microgrid Solar and Battery Storage Facility. On November 30, 2018, the NCUC issued an order scheduling hearings, requiring filing of testimony, establishing discovery guidelines and requiring public notice. On February 7, 2019, Duke Energy Progress made a joint filing with the Public Staff, which accepted the Public Staff's proposed conditions and requested that the NCUC cancel the evidentiary hearing. Duke Energy Progress cannot predict the outcome of this matter.

The carrying value of the 376-MW Asheville coal-fired plant, including associated ash basin closure costs, of \$327 million and \$385 million is included in Generation facilities to be retired, net on Duke Energy Progress' Consolidated Balance Sheets as of December 31, 2018, and 2017, respectively. Duke Energy Progress' request for a regulatory asset at the time of retirement with amortization over a 10-year period was approved by the NCUC on February 23, 2018.

Shearon Harris Nuclear Plant Expansion

In 2006, Duke Energy Progress selected a site at Harris to evaluate for possible future nuclear expansion. On February 19, 2008, Duke Energy Progress filed its COL application with the NRC for two Westinghouse AP1000 reactors at Harris, which the NRC docketed for review. On May 2, 2013, Duke Energy Progress filed a letter with the NRC requesting the NRC to suspend its review activities associated with the COL at the Harris site. The NCUC and PSCSC approved deferral of retail costs. Total deferred costs are approximately \$43 million as of December 31, 2018, and are recorded in Regulatory assets on Duke Energy Progress' Consolidated Balance Sheets. On November 17, 2016, the FERC approved Duke Energy Progress' rate recovery request filing for the wholesale ratepayers' share of the abandonment costs, including a debt-only return to be recovered through revised formula rates and amortized over a

15-year period beginning May 1, 2014. As part of the settlement agreement for the 2017 North Carolina Rate Case discussed above, Duke Energy Progress will amortize the regulatory asset over an eight-year period. NCUC approved the settlement on February 23, 2018.

South Carolina Petitions

On June 22, 2018, Duke Energy Progress filed a petition with the PSCSC seeking an accounting order authorizing Duke Energy Progress to adopt new depreciation rates, effective March 16, 2018, that reflect the results of Duke Energy Progress' most recent depreciation study. Also on June 22, 2018, Duke Energy Progress filed a petition with the PSCSC requesting an accounting order to defer certain costs incurred in connection with the deployment of AMI, the ongoing deployment of Duke Energy Progress' new billing and Customer Information System, new depreciation rates and costs incurred in connection with the return of certain excess deferred state income taxes from North Carolina. These requests totaling approximately \$20 million were approved on July 25, 2018.

FERC Form 1 Reporting Matter

On October 18, 2017, Fayetteville Public Works Commission (FPWC) filed with FERC a complaint against Duke Energy Progress. In the complaint, FPWC alleges that Duke Energy Progress' change in its method of reporting materials and supplies inventory on FERC Form 1 for 2015 constituted a change in accounting practice that Duke Energy Progress was not permitted to implement without first obtaining FERC approval. On April 23, 2018, FERC issued an order finding that Duke Energy Progress' new reporting methodology was not proper and required Duke Energy Progress to revise its FERC Form 1s beginning in 2014 and to issue refunds to formula rate customers. Duke Energy Progress estimates that these refunds will total approximately \$14 million. On May 23, 2018, Duke Energy Progress filed a request for rehearing alleging that FERC's order is incorrect. Duke Energy Progress revised its FERC Form 1 filings in June 2018. On August 31, 2018, Duke Energy Progress filed with FERC a refund report memorializing its payment of refunds to FPWC. Duke Energy Progress cannot predict the outcome of this matter.

Tax Act

As ordered by the NCUC on October 5, 2018, Duke Energy Progress filed a proposal on October 25, 2018, to adjust rates to reflect the reduction in federal corporate income tax rate from 35 to 21 percent for taxable years beginning after December 31, 2017, as outlined in the Tax Act. Duke Energy Progress proposed that this rate decrement be effective for service rendered on and after December 1, 2018. On November 28, 2018, the NCUC approved the proposal to implement the change in the federal corporate income tax rate and effective December 1, 2018, Duke Energy Progress implemented the rate reduction. Also, as ordered by the NCUC on October 5, 2018, Duke Energy Progress shall continue to hold in a deferred regulatory liability account the difference between revenues billed under the prior federal corporate income tax rate and the federal corporate income tax rate resulting from the Tax Act for the period January 1, 2018 through November 30, 2018. The disposition of such regulatory liability may be considered in Duke Energy Progress' next general rate case proceeding or in three years, whichever is sooner. EDIT related to the corporate income tax rate reduction shall be held in a deferred tax regulatory liability account until they can be addressed for ratemaking purposes in the next general rate case proceeding or in three years, whichever is sooner.

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Duke Energy Florida

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash ^(b)	\$ 10	\$ 9		(b)
AROs – nuclear and other ^(b)	172	296		(b)
Accrued pension and OPEB ^(c)	532	476	X	(d)
Retired generation facilities ^(c)	219	216	X	(b)
Storm cost deferrals ^{(c)(h)}	382	376	(e)	2021
Nuclear asset securitized balance, net	1,093	1,142		2036
Hedge costs deferrals	20	30		2020
DSM/EE ^(c)	21	17	X	2023
Deferred fuel and purchased power ^(c)	203	219	(f)	2020
AMI ^(c)	60	75	X	2032
Other	176	36	(g)	(b)
Total regulatory assets	2,888	2,892		
Less: current portion	434	389		
Total noncurrent regulatory assets	\$ 2,454	\$ 2,503		
Regulatory Liabilities^(a)				
Costs of removal ^(d)	\$ 257	\$ 415	(g)	(b)
Net regulatory liability related to income taxes ^(d)	847	948		(b)
Accrued pension and OPEB	56	—	X	(d)
Deferred fuel and purchased power ^(c)	16	—	(f)	2020
Other	20	18	(g)	(b)
Total regulatory liabilities	1,196	1,381		
Less: current portion	102	74		
Total noncurrent regulatory liabilities	\$ 1,094	\$ 1,307		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Certain costs earn a return.
(e) Earns a debt return/interest once collections begin.
(f) Earns commercial paper rate.
(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.
(h) Balance includes \$165 million for Hurricane Michael. Duke Energy Florida expects to seek recovery of these costs in the first half of 2019.

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Storm Restoration Cost Recovery

In September 2017, Duke Energy Florida's service territory suffered significant damage from Hurricane Irma, resulting in approximately 1 million customers experiencing outages. In the fourth quarter of 2017, Duke Energy Florida also incurred preparation costs related to Hurricane Nate. On December 28, 2017, Duke Energy Florida filed a petition with the FPSC to recover incremental storm restoration costs for Hurricane Irma and Hurricane Nate and to replenish the storm reserve. On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. Storm costs are currently expected to be fully recovered by approximately mid-2021. On May 31, 2018, Duke Energy Florida filed a petition for approval of actual storm restoration costs and associated recovery process related to Hurricane Irma and Hurricane Nate. The petition is seeking the approval for the recovery in the amount of \$510 million in actual recoverable storm restoration costs, including the replenishment of Duke Energy Florida's storm reserve of \$132 million, and the process for recovering these recoverable storm costs. On August 20, 2018, the FPSC approved Duke Energy Florida's unopposed Motion for Continuance filed August 17, 2018, to allow for an evidentiary hearing in this matter. On January 28, 2019, Duke Energy Florida made a supplemental filing to reduce the total storm cost recovery from \$510 million to \$508 million. The commission has scheduled the hearing to begin on May 21, 2019. At December 31, 2018, Duke Energy Florida's Consolidated Balance Sheets included approximately \$217 million of recoverable costs under the FPSC's storm rule in Regulatory assets within Current Assets and Other Noncurrent Assets related to storm recovery for Hurricane Irma and Hurricane Nate. Duke Energy Florida cannot predict the outcome of this matter.

In October 2018, Duke Energy Florida's service territory suffered damage when Hurricane Michael made landfall as a strong Category 4 hurricane with maximum sustained winds of 155 mph. The storm caused catastrophic damage from wind and storm surge, particularly from Panama City Beach to Mexico Beach, resulting in widespread outages and significant damage to transmission and distribution facilities across the central Florida Panhandle. In response to Hurricane Michael, Duke Energy Florida restored service to approximately 72,000 customers. Duke Energy Florida incurred approximately \$200 million of costs resulting from the hurricane restoration efforts. Approximately \$35 million of the costs are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018. The remaining \$165 million of costs represent recoverable costs under the FPSC's storm rule and Duke Energy Florida's Open Access Transmission Tariff formula rates and are included in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. Duke Energy Florida anticipates filing a petition with the FPSC in the first half of 2019 to recover these costs, consistent with the provisions in the 2017 Settlement. Duke Energy Florida cannot predict the outcome of this matter.

Tax Act

Pursuant to Duke Energy Florida's 2017 Settlement, on May 31, 2018, Duke Energy Florida filed a petition related to the Tax Act, which included revenue requirement impacts of annual tax savings of \$134 million and estimated annual amortization of EDIT of \$67 million for a total of \$201 million. Of this amount, \$50 million would be offset by accelerated depreciation of Crystal River 4 and 5 coal units and an estimated \$151 million would be offset by Hurricane Irma storm cost recovery as explained in the Storm Restoration

Cost Recovery section above. On December 27, 2018, Duke Energy Florida filed actual EDIT balances and amortization based on its 2017 filed tax return. This increased the revenue requirement impact of the amortization of EDIT by \$4 million, from \$67 million to \$71 million. On January 8, 2019, the FPSC approved a joint motion by Duke Energy Florida and the Office of Public Counsel resolving all stipulated positions. As part of that stipulation, Duke Energy Florida will seek a Private Letter Ruling from the IRS on its treatment of COR as mostly protected by tax normalization rules. If the IRS rules that COR is not protected by tax normalization rules, then Duke Energy Florida will make a final adjustment to the amortization of EDIT and an adjustment to the storm recovery amount retroactive to January 2018. Duke Energy Florida cannot predict the outcome of this matter.

Citrus County CC

On October 2, 2014, the FPSC granted Duke Energy Florida a Determination of Need for the construction of a 1,640-MW combined-cycle natural gas plant in Citrus County, Florida. At that time, the estimated cost of the facility was \$1.5 billion, including AFUDC. On May 5, 2015, the Florida Department of Environmental Protection approved Duke Energy Florida's Site Certification Application and construction began in October 2015. On July 10, 2018, the FPSC approved Duke Energy Florida's request to include the annual revenue requirement of \$200 million for the new Citrus County combined-cycle units in base rates. The first 820-MW power block came on-line on October 26, 2018, and the rate increase for this unit was effective in December 2018. The second 820-MW power block came on-line November 24, 2018. The rate increase for the second unit was effective in January 2019. The ultimate cost of the facility is estimated to be \$1.6 billion, and Duke Energy Florida recorded Impairment charges on Duke Energy's Consolidated Statements of Operations of \$60 million in the fourth quarter of 2018 for the overrun, which may change in light of recoveries from the EPC contractor. The plant began receiving natural gas from the Sabal Trail pipeline in August 2018. As a result of the combined-cycle natural gas plant coming on-line, Crystal River coal-fired units 1 and 2 were retired in December 2018. See Note 5 for additional information on Citrus.

Solar Base Rate Adjustment

On July 31, 2018, Duke Energy Florida petitioned the FPSC to include in base rates the revenue requirements for its first two solar generation projects, the Hamilton Project and the Columbia Project, as authorized by the 2017 Settlement. The Hamilton Project, which was placed into service on December 22, 2018, has an annual retail revenue requirement of \$15 million and the increase was effective in January 2019. The Columbia Project has a projected annual revenue requirement of \$14 million and a projected in-service date in early 2020; the associated rate increase would take place with the first month's billing cycle after the Columbia Project goes into service. At its October 30, 2018, Agenda Conference, the FPSC approved the rate increase related to the Hamilton Project to go into effect beginning with the first billing cycle in January 2019 under its file and suspend authority. Rates are subject to true up pending the outcome of the final hearing, which is scheduled to take place on April 2, 2019. Duke Energy Florida cannot predict the outcome of this matter.

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Ohio

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash	\$ 20	\$ 17	X	(b)
Accrued pension and OPEB	146	139		(c)
Storm cost deferrals	4	5		2023
Hedge costs deferrals	5	6		(b)
DSM/EE	10	18	(f)	(e)
Grid modernization	31	39	X	(a)
Vacation accrual	5	5		2019
Deferred fuel and purchased power	2	—		2019
PISCC and deferred operating expenses ^(d)	17	19	X	2083
Transmission expansion obligation	43	50		(e)
MGP	99	91		(b)
AMI	46	6		(b)
East Bend deferrals	47	45	X	(b)
Deferred pipeline integrity costs	14	12	X	(b)
Other	75	42		(b)
Total regulatory assets	564	494		
Less: current portion	33	49		
Total noncurrent regulatory assets	\$ 531	\$ 445		
Regulatory Liabilities^(a)				
Costs of removal	\$ 126	\$ 189		(b)
Net regulatory liability related to income taxes	678	688		(b)
Accrued pension and OPEB	18	16		(c)
Other	75	34		(b)
Total regulatory liabilities	897	927		
Less: current portion	57	36		
Total noncurrent regulatory liabilities	\$ 840	\$ 891		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Recovery over the life of the associated assets.
(e) Recovered via a rider mechanism.
(f) Includes incentives on OSM/EE investments.
(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

2017 Electric Security Plan

On June 1, 2017, Duke Energy Ohio filed with the PUCO a request for a standard service offer in the form of an ESP. On February 15, 2018, the procedural schedule was suspended to facilitate ongoing settlement discussions. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases currently pending before the PUCO, including, but not limited to, its Electric Base Rate Case. Additionally, on April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation and Recommendation (Stipulation) with the PUCO resolving certain issues in this proceeding. The term of the ESP would be from June 1, 2018, to May 31, 2025, and includes continuation of market-based customer rates through

competitive procurement processes for generation, continuation and expansion of existing rider mechanisms and proposed new rider mechanisms relating to regulatory mandates, costs incurred to enhance the customer experience and transform the grid and a service reliability rider for vegetation management. The Stipulation establishes a regulatory model for the next seven years via the approval of the ESP and continues the current model for procuring supply for non-shopping customers, including recovery mechanisms. On December 19, 2018, the PUCO approved the Stipulation without material modification. Several parties have filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. Duke Energy Ohio cannot predict the outcome of this matter.

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Combined Notes to Consolidated Financial Statements – (Continued)

Electric Base Rate Case

Duke Energy Ohio filed with the PUCO an electric distribution base rate case application and supporting testimony in March 2017. Duke Energy Ohio requested an estimated annual increase of approximately \$15 million and a return on equity of 10.4 percent. The application also included requests to continue certain current riders and establish new riders. On September 26, 2017, the PUCO staff filed a report recommending a revenue decrease between approximately \$18 million and \$29 million and a return on equity between 9.22 percent and 10.24 percent. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases pending before the PUCO. On April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed the Stipulation with the PUCO resolving numerous issues including those in this base rate proceeding. Major components of the Stipulation related to the base distribution rate case include a \$19 million decrease in annual base distribution revenue with a return on equity unchanged from the current rate of 9.84 percent based upon a capital structure of 50.75 percent equity and 49.25 percent debt. Upon approval of new rates, Duke Energy Ohio's rider for recovering its initial SmartGrid implementation ends as these costs will be recovered through base rates. The Stipulation also renews 14 existing riders, some of which were included in the company's ESP, and adds two new riders including the Enhanced Service Reliability Rider to recover vegetation management costs not included in base rates, up to \$10 million per year (operation and maintenance only) and the PowerForward Rider to recover costs incurred to enhance the customer experience and further transform the grid (operation and maintenance and capital). In addition to the changes in revenue attributable to the Stipulation, Duke Energy Ohio's capital-related riders, including the Distribution Capital Investments Rider, began to reflect the lower federal income tax rate associated with the Tax Act with updates to customers' bills beginning April 1, 2018. This change reduces electric revenue by approximately \$20 million on an annualized basis. On December 19, 2018, the PUCO approved the Stipulation without material modification. New base rates were implemented effective January 2, 2019. Several parties have filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. Duke Energy Ohio cannot predict the outcome of this matter.

Ohio Valley Electric Corporation

On March 31, 2017, Duke Energy Ohio filed for approval to adjust its existing price stabilization rider (Rider PSR), which is currently set at zero dollars, to pass through net costs related to its contractual entitlement to capacity and energy from the generating assets owned by OVEC. Duke Energy Ohio sought deferral authority for net costs incurred from April 1, 2017, until the new rates under Rider PSR are put into effect. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases currently pending before the PUCO. Also on April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation with the PUCO resolving numerous issues including those related to Rider PSR. The Stipulation activates Rider PSR for recovery of net costs incurred from January 1, 2018 through May 2025. On December 19, 2018, the PUCO approved the Stipulation without material modification. Several parties have filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. Duke Energy Ohio cannot predict the outcome of this matter. See Note 17 for additional discussion of Duke Energy Ohio's ownership interest in OVEC.

Tax Act – Ohio

On July 25, 2018, Duke Energy Ohio filed an application to establish a new rider to implement the benefits of the Tax Act for electric distribution customers. Duke Energy Ohio requested commission approval to implement the

rider effective October 1, 2018, as a credit to all distribution customers based upon a percent reduction to Duke Energy Ohio's distribution rates. The new rider will flow through to customers the benefit of the lower statutory federal tax rate from 35 to 21 percent since January 1, 2018, all future benefits of the lower tax rates and a full refund of deferred income taxes collected at the higher tax rates in prior years. Deferred income taxes subject to normalization rules will be refunded consistent with federal law and deferred income taxes not subject to normalization rules will be refunded over a 10-year period. Duke Energy Ohio's transmission rates reflect lower federal income tax but guidance from FERC on amortization of both protected and unprotected transmission-related EDITs is still pending. On October 24, 2018, the PUCO issued a Finding and Order that, among other things, directed all utilities over which the commission has rate-making authority to file an application to pass the benefits of the Tax Act to customers by January 1, 2019, unless otherwise exempted or directed by the PUCO. Duke Energy Ohio's July 25, 2018, filing for electric distribution operations is consistent with the commission's October 24, 2018, Finding and Order and no further action is needed. On February 20, 2019, the PUCO approved the application without material modification. Rates will be effective March 1, 2019. On December 21, 2018, Duke Energy Ohio filed an application to change its base rates and establish a new rider to implement the benefits of the Tax Act for natural gas customers. Duke Energy Ohio requested commission approval to implement the changes and rider effective April 1, 2019. The new rider will flow through to customers the benefit of the lower statutory federal tax rate from 35 to 21 percent since January 1, 2018, all future benefits of the lower tax rates and a full refund of deferred income taxes collected at the higher tax rates in prior years. Deferred income taxes subject to normalization rules will be refunded consistent with federal law and deferred income taxes not subject to normalization rules will be refunded over a 10-year period. The PUCO has not yet ruled on the application for changes for natural gas customers. Duke Energy Ohio cannot predict the outcome of this matter.

Energy Efficiency Cost Recovery

On March 28, 2014, Duke Energy Ohio filed an application for recovery of program costs, lost distribution revenue and performance incentives related to its energy efficiency and peak demand reduction programs. These programs are undertaken to comply with environmental mandates set forth in Ohio law. The PUCO approved Duke Energy Ohio's application but found that Duke Energy Ohio was not permitted to use banked energy savings from previous years in order to calculate the amount of allowed incentive. This conclusion represented a change to the cost recovery mechanism that had been agreed upon by intervenors and approved by the PUCO in previous cases. The PUCO granted the applications for rehearing filed by Duke Energy Ohio and an intervenor. On January 6, 2016, Duke Energy Ohio and the PUCO Staff entered into a stipulation, pending the PUCO's approval, to resolve issues related to performance incentives and the PUCO Staff audit of 2013 costs, among other issues. In December 2015, based upon the stipulation, Duke Energy Ohio re-established approximately \$20 million of the revenues that had been previously reversed. On October 26, 2016, the PUCO issued an order approving the stipulation without modification. In December 2016, the PUCO granted the intervenors request for rehearing for the purpose of further review. Duke Energy Ohio cannot predict the outcome of this matter.

On June 15, 2016, Duke Energy Ohio filed an application for approval of a three-year energy efficiency and peak demand reduction portfolio of programs. A stipulation and modified stipulation were filed on December 22, 2016, and January 27, 2017, respectively. Under the terms of the stipulations, which included support for deferral authority of all costs and a cap on shared savings incentives, Duke Energy Ohio has offered its energy efficiency and peak demand reduction programs throughout 2017. On February 3, 2017, Duke Energy Ohio filed for deferral

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authority of its costs incurred in 2017 in respect of its proposed energy efficiency and peak demand reduction portfolio. On September 27, 2017, the PUCO issued an order approving a modified stipulation. The modifications impose an annual cap of approximately \$38 million on program costs and shared savings incentives combined, but allowed for Duke Energy Ohio to file for a waiver of costs in excess of the cap in 2017. The PUCO approved the waiver request for 2017 up to a total cost of \$56 million. On November 21, 2017, the PUCO granted Duke Energy Ohio's and intervenor's applications for rehearing of the September 27, 2017, order. On January 10, 2018, the PUCO denied the Ohio Consumers' Counsel's application for rehearing of the PUCO order granting Duke Energy Ohio's waiver request; however, a decision on Duke Energy Ohio's application for rehearing remains pending. Duke Energy Ohio cannot predict the outcome of this matter.

2014 Electric Security Plan

In April 2015, the PUCO modified and approved Duke Energy Ohio's proposed ESP with a three-year term and an effective date of June 1, 2015. The PUCO approved a competitive procurement process for SSO load, a distribution capital investment rider (Rider DCI) and a tracking mechanism for incremental distribution expenses caused by major storms. The PUCO also approved a placeholder tariff for a price stabilization rider, but denied Duke Energy Ohio's specific request to include Duke Energy Ohio's entitlement to generation from OVEC in the rider at this time; however, the order allows Duke Energy Ohio to submit additional information to request recovery in the future. On May 4, 2015, Duke Energy Ohio filed an application for rehearing requesting the PUCO to modify or amend certain aspects of the order. On May 28, 2015, the PUCO granted all applications for rehearing filed in the case for future consideration. On March 21, 2018, the PUCO issued an order denying Duke Energy Ohio's issues on rehearing. On April 20, 2018, Duke Energy Ohio filed a second application for rehearing based upon the commission's March 21, 2018, Order. On May 16, 2018, the commission issued its third Entry on Rehearing granting in part, and denying in part, Duke Energy Ohio's rehearing request.

On March 9, 2018, Duke Energy Ohio filed a motion to extend its then-current ESP, including all terms and conditions thereof, pending approval of a new ESP. On May 30, 2018, the PUCO granted the request, with modification. Specifically, the PUCO did not extend the cap applicable to Rider DCI beyond July 31, 2018. Duke Energy Ohio sought rehearing of this finding. On July 25, 2018, the PUCO granted the request and allowed a continuing cap on recovery under Rider DCI. On August 24, 2018, OMA and OCC filed an Application for Rehearing of the commission's decision. Duke Energy Ohio filed a Memorandum Contra OCC's request for rehearing of the commission's continuation of Rider DCI on September 4, 2018. On September 19, 2018, the PUCO issued an Order granting rehearing on the matter for further consideration. Duke Energy Ohio cannot predict the outcome of this matter.

On May 21, 2018, the Ohio Manufacturers' Association (OMA) filed a notice of appeal of PUCO's approval of Duke Energy Ohio's ESP with the Ohio Supreme Court, challenging PUCO's approval of Duke Energy Ohio's Price Stability Rider as a placeholder and its Rider DCI to recover incremental revenue requirement for distribution capital since Duke Energy Ohio's last base rate case. On July 16, 2018, the Office of the Ohio Consumers' Counsel (OCC) filed its own appeal of Duke Energy Ohio's ESP with the Ohio Supreme Court raising similar issues to that of the OMA. Duke Energy Ohio filed a Motion to Intervene in the two Ohio Supreme Court appeals. OMA's Supreme Court brief was filed on August 20, 2018. PUCO submitted its brief on October 26, 2018, and Duke Energy Ohio filed its brief on October 29, 2018. The OCC's Supreme Court brief was filed on October 15, 2018. Duke Energy Ohio filed its brief on December 20, 2018. The PUCO submitted its brief on December 21, 2018. Duke Energy Ohio cannot predict the outcome of this matter.

Natural Gas Pipeline Extension

Duke Energy Ohio is proposing to install a new natural gas pipeline (the Central Corridor Project) in its Ohio service territory to increase system reliability and enable the retirement of older infrastructure. Duke Energy Ohio currently estimates the pipeline development costs and construction activities will range from \$163 million to \$245 million in direct costs (excluding overheads and AFUDC). On January 20, 2017, Duke Energy Ohio filed an amended application with the Ohio Power Siting Board (OPSB) for approval of one of two proposed routes. A public hearing was held on June 15, 2017. In April 2018, Duke Energy Ohio filed a motion with OPSB to establish a procedural schedule and filed supplemental information supporting its application. On December 18, 2018, the OPSB established a procedural schedule that includes a local public hearing on March 21, 2019, and an evidentiary hearing starting on April 9, 2019. If approved, construction of the pipeline extension is expected to be completed before the 2021/2022 winter season. Duke Energy Ohio cannot predict the outcome of this matter.

2012 Natural Gas Rate Case/MGP Cost Recovery

On November 13, 2013, the PUCO issued an order approving a settlement of Duke Energy Ohio's natural gas base rate case and authorizing the recovery of costs incurred between 2008 and 2012 for environmental investigation and remediation of two former MGP sites. The PUCO order also authorized Duke Energy Ohio to continue deferring MGP environmental investigation and remediation costs incurred subsequent to 2012 and to submit annual filings to adjust the MGP rider for future costs. Intervening parties appealed this decision to the Ohio Supreme Court and on June 29, 2017, the Ohio Supreme Court issued its decision affirming the PUCO order. Appellants filed a request for reconsideration, which was denied on September 27, 2017. This matter is now final.

The PUCO order also contained conditional deadlines for completing the MGP environmental investigation and remediation costs at the MGP sites. As of December 31, 2018, Duke Energy Ohio had approximately \$24 million for future remediation costs expected to be incurred at the East End site and approximately \$23 million for future remediation costs expected to be incurred at the West End site included in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets.

Duke Energy Kentucky Electric Rate Case

On September 1, 2017, Duke Energy Kentucky filed a rate case with the KPSC requesting an increase in electric base rates of approximately \$49 million, which represents an approximate 15 percent increase on the average customer bill. Subsequent to the filing, Duke Energy Kentucky adjusted the requested amount to \$30.1 million, in part to reflect the benefits of the Tax Act, representing an approximate 9 percent increase on the average customer bill. The rate increase was driven by increased investment in utility plant, increased operations and maintenance expenses and recovery of regulatory assets. The application also includes requests to implement an Environmental Surcharge Mechanism to recover environmental costs not recovered in base rates, to establish a Distribution Capital Investment Rider to recover incremental costs of specific programs, to establish a FERC Transmission Cost Reconciliation Rider to recover escalating transmission costs and to modify existing Profit Sharing Mechanism to increase customers' share of proceeds from the benefits of owning generation and to mitigate shareholder risks associated with that generation. An evidentiary hearing concluded on March 8, 2018, and the KPSC issued an order on April 13, 2018. Major components of the Order include approval of an \$8 million increase in base rates with a return on equity at

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9.725 percent based upon a capital structure of 49 percent equity on a total allocable capitalization of approximately \$650 million. The Order approved the Environmental Surcharge Mechanism Rider and in June 2018 recovery began of capital-related environmental costs, including costs related to ash and ash disposal, and environmental operation and maintenance expenses formerly recovered in base rates, including expenses for environmental reagents and emission allowances. The incremental revenue from this rider will be approximately \$13 million on an annualized basis. The order settles all issues associated with the Tax Act as it relates to the electric business by lowering the income tax component of the revenue requirement and refunding protected EDIT under allowable normalization rules and unprotected EDIT over 10 years. The Order denied requests to implement riders for certain transmission costs and distribution capital investments. Duke Energy Kentucky implemented new base rates on May 1, 2018. On May 3, 2018, Duke Energy Kentucky filed an application for rehearing on certain aspects of the order; on May 23, 2018, the KPSC granted a rehearing. On October 2, 2018, the KPSC issued its rehearing order correcting certain findings in its initial order and making additional changes that are immaterial to the company's earnings.

Duke Energy Kentucky Natural Gas Base Rate Case

On August 31, 2018, Duke Energy Kentucky filed an application with the KPSC requesting an increase in natural gas base rates of approximately \$11 million, an approximate 11.1 percent average increase across all customer classes. The increase is net of approximately \$5 million in annual savings as a result of the Tax Act. The drivers for this case are capital invested since Duke Energy Kentucky's last rate case in 2009. Duke Energy Kentucky is also seeking implementation of a Weather Normalization Adjustment Mechanism, amortization of regulatory assets and to implement the impacts of the Tax Act, prospectively. On January 30, 2019, Duke Energy Kentucky entered into a settlement agreement with the Attorney General of Kentucky, the only intervenor in the case, which if approved would resolve the matter. The settlement provides for an approximate \$7 million increase and approval of the proposed Weather Normalization Mechanism. A hearing was held on February 5, 2019. A ruling is expected in late first quarter 2019. Duke Energy Kentucky cannot predict the outcome of this matter.

FERC 494 Refund of Regional Transmission Enhancement Projects

FERC Order No. 494 Settlement Agreement (FERC 494 Settlement Agreement) was entered into by most of the PJM transmission owners, including Duke Energy Ohio and Duke Energy Kentucky, and the PJM state regulatory

commissions approximately two years ago and was planned to be effective on January 1, 2016; however, it was not approved by FERC until May 31, 2018. The FERC 494 Settlement Agreement was due to the Seventh Circuit Court of Appeals finding that FERC had failed to adequately justify the costs that the customers in the western part of PJM were being charged for high voltage transmission projects, or Regional Transmission Expansion Plan (RTEP) projects (500 kV and above) built in the east. These costs were being allocated to all PJM customers on a load-ratio share basis but the court determined that these costs were not justifiable to customers in the west, including Duke Energy Ohio and Duke Energy Kentucky, that did not benefit from the RTEP projects. Costs for the periods 2012 through 2015 are expected to be refunded to Duke Energy Ohio and Duke Energy Kentucky on a monthly basis through December 2025. The refund amount for similar costs incurred beginning in 2016 through June 30, 2018, prior to the change in cost allocation by PJM was determined in the third quarter of 2018 and these amounts will be refunded over a 12-month period beginning in July 2018. These refunds, totaling approximately \$47 million for Duke Energy Ohio and Duke Energy Kentucky, have been recorded to Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

Regional Transmission Organization Realignment

Duke Energy Ohio, including Duke Energy Kentucky, transferred control of its transmission assets from MISO to PJM, effective December 31, 2011. The PUCO approved a settlement related to Duke Energy Ohio's recovery of certain costs of the RTO realignment via a non-bypassable rider. Duke Energy Ohio is allowed to recover all MTEP costs directly or indirectly charged to Ohio customers. The KPSC also approved a request to effect the RTO realignment, subject to a commitment not to seek double recovery in a future rate case of the transmission expansion fees that may be charged by MISO and PJM in the same period or overlapping periods.

The following table provides a reconciliation of the beginning and ending balance of Duke Energy Ohio's recorded liability for its exit obligation and share of MTEP costs recorded in Other within Current Liabilities and Other Noncurrent Liabilities on the Consolidated Balance Sheets. The retail portions of MTEP costs billed by MISO are recovered by Duke Energy Ohio through a non-bypassable rider. As of December 31, 2018, and 2017, \$43 million and \$50 million, respectively, are recorded in Regulatory assets on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31, 2017	Provisions/ Adjustments	Cash Reductions	December 31, 2018
Duke Energy Ohio	\$ 66	\$ (4)	\$ (4)	\$ 58

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Duke Energy Indiana

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Indiana's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash	\$ 450	\$ 380		(b)
Accrued pension and OPEB	222	197		(b)
Retired generation facilities ^(c)	57	65	X	2026
Hedge costs deferrals	24	25		(b)
DSM/EE	14	21	(d)	(e)
Vacation accrual	11	11		2019
Deferred fuel and purchased power	40	18		2019
PISCC and deferred operating expenses ^(c)	233	274	X	(b)
AMI ^(d)	18	21	X	(b)
Other	88	131		(b)
Total regulatory assets	1,157	1,143		
Less: current portion	175	165		
Total noncurrent regulatory assets	\$ 982	\$ 978		
Regulatory Liabilities^(a)				
Costs of removal	\$ 628	\$ 644		(b)
Net regulatory liability related to income taxes	1,009	998		(b)
Amounts to be refunded to customers	1	10		2019
Accrued pension and OPEB	67	64		(b)
Other	42	31		(b)
Total regulatory liabilities	1,747	1,747		
Less: current portion	25	24		
Total noncurrent regulatory liabilities	\$ 1,722	\$ 1,723		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Recovery over the life of the associated assets.

(e) Includes incentives on DSM/EE investments and is recovered through a tracker mechanism over a two-year period.

(f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

FERC Transmission Return on Equity Complaint

Customer groups have filed with the FERC complaints against Midcontinent Independent System Operator, Inc. (MISO) and its transmission-owning members, including Duke Energy Indiana, alleging, among other things, that the current base rate of return on equity earned by MISO transmission owners of 12.38 percent is unjust and unreasonable. The complaints claim, among other things, that the current base rate of return on equity earned by MISO transmission owners should be reduced to 8.67 percent. On January 5, 2015, the FERC issued an order accepting the MISO transmission owners' adder of 0.50 percent to the base rate of return on equity based on participation in an RTO subject to it being applied to a return on equity that is shown to be just and reasonable in the pending return on equity complaints. On December 22, 2015, the presiding FERC ALJ in the first complaint issued an Initial Decision in which the base rate of return on equity was set at 10.32 percent. On September 28, 2016, the Initial Decision in the first complaint was affirmed by FERC, but is subject to rehearing requests. On June 30, 2016, the presiding FERC ALJ in the

second complaint issued an Initial Decision setting the base rate of return on equity at 9.70 percent. The Initial Decision in the second complaint is pending FERC review. On April 14, 2017, the U.S. Court of Appeals for the District of Columbia Circuit, in *Emera Maine v. FERC*, reversed and remanded certain aspects of the methodology employed by FERC to establish rates of return on equity. On October 16, 2018, FERC issued an order in response to the Emera remand proceeding proposing a new method for determining whether an existing return on equity is unjust and unreasonable, and a new process for determining a just and reasonable return on equity. On November 14, 2018, FERC directed parties to the MISO complaints to file briefs on how the new process for determining return on equity proposed in the Emera proceeding should be applied to the complaints involving the MISO transmission owners' return on equity. Initial briefs were filed on February 13, 2019, and reply briefs will be due April 10, 2019. Duke Energy Indiana currently believes these matters will not have a material impact on its results of operations, cash flows and financial position.

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Combined Notes to Consolidated Financial Statements – (Continued)

Benton County Wind Farm Dispute

On December 16, 2013, BCWF filed a lawsuit against Duke Energy Indiana seeking damages for past generation losses alleging Duke Energy Indiana violated its obligations under a 2006 PPA by refusing to offer electricity to the market at negative prices. Damage claims continue to increase during times that BCWF is not dispatched. Under 2013 revised MISO market rules, Duke Energy Indiana is required to make a price offer to MISO for the power it proposes to sell into MISO markets and MISO determines whether BCWF is dispatched. Because market prices would have been negative due to increased market participation, Duke Energy Indiana determined it would not bid at negative prices in order to balance customer needs against BCWF's need to run. BCWF contends Duke Energy Indiana must bid at the lowest negative price to ensure dispatch, while Duke Energy Indiana contends it is not obligated to bid at any particular price, that it cannot ensure dispatch with any bid and that it has reasonably balanced the parties' interests. On July 6, 2015, the U.S. District Court for the Southern District of Indiana entered judgment against BCWF on all claims. BCWF appealed the decision and on December 9, 2016, the appeals court ruled in favor of BCWF. Duke Energy Indiana recorded an obligation and a regulatory asset related to the settlement amount in fourth quarter 2016. On June 30, 2017, the parties finalized a settlement agreement. Terms of the settlement included Duke Energy Indiana paying \$29 million for back damages. Additionally, the parties agreed on the method by which the contract will be bid into the market in the future. The settlement amount was paid in June 2017. The IURC issued an order on September 27, 2017, approving recovery of the settlement amount through Duke Energy Indiana's fuel clause. The IURC order has been appealed to the Indiana Court of Appeals. On May 21, 2018, the Indiana Court of Appeals upheld the commission's decision. The appellants have requested rehearing at the Indiana Court of Appeals. The Indiana Court of Appeals denied the request for rehearing. The appellants have requested transfer to the Indiana Supreme Court, including briefs in support from environmental groups. The Indiana Supreme Court denied transfer concluding this matter in favor of Duke Energy Indiana.

Edwardsport Integrated Gasification Combined Cycle Plant

On September 20, 2018, Duke Energy Indiana, the Indiana Office of Utility Consumer Counselor, the Duke Industrial Group and Nucor Steel – Indiana entered into a settlement agreement to resolve IGCC ratemaking issues for calendar years 2018 and 2019. The agreement will remain in effect until new rates are established in Duke Energy Indiana's next base rate case, which is

expected to be filed in mid-2019 with rates effective in mid-2020. It addresses the pending Edwardsport filing at the commission and eliminates the need for future filings until the overall rate case. This settlement includes caps on Duke Energy Indiana's retail operating expenses for 2018 and 2019, reduces Duke Energy Indiana's regulatory asset by \$30 million (with a corresponding reduction of the amount of amortization of the regulatory asset included in rates by \$10 million annually beginning with the implementation of final IGCC 17 rates), and provides funding for low-income assistance and clean energy projects. Duke Energy Indiana recognized pretax impairment and related charges of \$32 million in the third quarter of 2018. The settlement is subject to IURC approval. An evidentiary hearing was held December 2018 and an IURC Order is expected in March 2019. Duke Energy Indiana cannot predict the outcome of this matter.

Tax Act

On June 27, 2018, Duke Energy Indiana, the Indiana Office of Utility Consumer Counselor, the Indiana Industrial Group and Nucor Steel – Indiana filed testimony consistent with their Stipulation and Settlement Agreement (Settlement Agreement) in the federal tax act proceeding with the IURC. The Settlement Agreement outlines how Duke Energy Indiana will implement the impacts of the Tax Act. Material components of the Settlement Agreement were as follows:

- Riders to reflect the change in the statutory federal tax rate from 35 to 21 percent as they are filed in 2018;
- Base rates to reflect the change in the statutory federal tax rate from 35 to 21 percent upon IURC approval, but no later than September 1, 2018;
- Duke Energy Indiana to continue to defer protected federal EDIT until January 1, 2020, at which time it will be returned to customers according to the Average Rate Assumption Method required by the Internal Revenue Service over approximately 26 years; and
- Duke Energy Indiana to begin returning unprotected federal EDIT upon IURC approval, over 10 years. In order to mitigate the negative impacts to cash flow and credit metrics, the Settlement Agreement allows Duke Energy Indiana to return \$7 million per year over the first five years, with a step up to \$35 million per year in the following five years.

On August 22, 2018, the IURC approved the settlement and rates were adjusted effective September 1, 2018.

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Combined Notes to Consolidated Financial Statements – (Continued)

Piedmont

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Piedmont's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – other	\$ 19	\$ 15		(d)
Accrued pension and OPEB ^(c)	99	91	X	(e)
Derivatives – gas supply contracts ^(a)	141	142		
Vacation accrual	12	10		
Deferred pipeline integrity costs ^(d)	51	42	X	(b)
Amount due from customers	24	64	X	(b)
Other	11	14		(b)
Total regulatory assets	357	378		
Less: current portion	54	95		
Total noncurrent regulatory assets	\$ 303	\$ 283		
Regulatory Liabilities^(a)				
Costs of removal	\$ 564	\$ 544		(d)
Net regulatory liability related to income taxes	579	597		(b)
Accrued pension and OPEB ^(c)	1	—	X	(e)
Amount due to customers	33	—	X	(b)
Other	41	3		(b)
Total regulatory liabilities	1,218	1,144		
Less: current portion	37	3		
Total noncurrent regulatory liabilities	\$ 1,181	\$ 1,141		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
 (b) The expected recovery or refund period varies or has not been determined.
 (c) Included in rate base.
 (d) Recovery over the life of the associated assets.
 (e) Balance will fluctuate with changes in the market. Current contracts extend into 2031.
 (f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

South Carolina Rate Stabilization Adjustment Filing

On June 15, 2018, Piedmont filed with the PSCSC under the South Carolina Rate Stabilization Act its quarterly monitoring report for the 12-month period ending March 31, 2018. The filing included a revenue deficiency calculation and tariff rates in order to permit Piedmont the opportunity to earn the rate of return on common equity established in its last general rate case. The filing also incorporated the impacts of the Tax Act by lowering the income tax component of the revenue requirement, refunding protected EDIT under allowable normalization rules, unprotected EDIT and amounts over collected from the customers from January 1, 2018, through the end of the review period for this proceeding. A settlement agreement reached between Piedmont and ORS was filed with the PSCSC on September 14, 2018, and approved by the PSCSC on October 3, 2018. Terms of the settlement include implementation of rates for the 12-month period beginning November 2018 with a return on equity of 10.2 percent.

North Carolina Integrity Management Rider Filing

In October 2018, Piedmont filed a petition under the IMR mechanism to collect an additional \$10 million in annual revenues, effective December 2018, based on the eligible capital investments closed to integrity and safety projects

over the six-month period ended September 30, 2018. On November 27, 2018, the NCUC approved the requested rate adjustment.

In May 2018, Piedmont filed, and the NCUC approved, a petition under the IMR mechanism to update rates, effective June 2018, based on the eligible capital investments closed to integrity and safety projects over the six-month period ending March 31, 2018, and the decrease in the corporate federal income tax rate effective January 1, 2018. The combined effect of the update was a reduction to annual revenues of approximately \$6 million.

Tennessee Integrity Management Rider Filing

In November 2018, Piedmont filed a petition with the TPUC under the IMR mechanism to collect an additional \$3 million in annual revenues, effective January 2019, based on the eligible capital investments closed to integrity and safety projects over the 12-month period ending October 31, 2018. A hearing on this matter is scheduled for March 2019.

2018 North Carolina Rate Case

On February 27, 2019, Piedmont filed a notice with the NCUC of its intent to file a base rate adjustment application no earlier than 30 days from the notice submittal date.

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Combined Notes to Consolidated Financial Statements – (Continued)

OTHER REGULATORY MATTERS

Progress Energy Merger FERC Mitigation

Since December 2014, the FERC Office of Enforcement has conducted an investigation of Duke Energy's market power filings in its application for approval of the Progress Energy merger submitted in 2012. On June 8, 2018, the FERC issued an order approving a settlement agreement under which Duke Energy paid a penalty of \$3.5 million. The FERC Office of Enforcement stated in its conclusion that Duke Energy violated FERC regulations by failing to fully and accurately describe certain specific matters in its market power filings. Duke Energy neither admitted nor denied the alleged violations.

Atlantic Coast Pipeline, LLC

On September 2, 2014, Duke Energy, Dominion Resources (Dominion), Piedmont and Southern Company Gas announced the formation of Atlantic Coast Pipeline, LLC (ACP) to build and own the proposed Atlantic Coast Pipeline (ACP pipeline), an approximately 600-mile interstate natural gas pipeline running from West Virginia to North Carolina. The ACP pipeline is designed to meet, in part, the needs identified by Duke Energy Carolinas, Duke Energy Progress and Piedmont. Dominion will be responsible for building and operating the ACP pipeline and holds a leading ownership percentage in ACP of 48 percent. Duke Energy owns a 47 percent interest, which is accounted for as an equity method investment through its Gas Utilities and Infrastructure segment. Southern Company Gas maintains a 5 percent interest. See Notes 12 and 17 for additional information related to Duke Energy's ownership interest. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the pipeline. Purchases will be made under several 20-year supply contracts, subject to state regulatory approval.

In 2018, the FERC issued a series of Notices to Proceed, which authorized the project to begin certain construction-related activities along the pipeline route, including supply header and compressors. On May 11, 2018, and October 19, 2018, FERC issued Notices to Proceed allowing full construction activities in all areas of West Virginia except in the Monongahela National Forest. On July 24, 2018, FERC issued a Notice to Proceed allowing full construction activities along the project route in North Carolina. On October 19, 2018, the conditions to effectiveness of the Virginia 401 water quality certification were satisfied. Immediately following receipt of the Virginia 401 certification, ACP filed a request for FERC to issue a Notice to Proceed with full construction activities in Virginia. We appreciate the professional and collaborative process by the permitting agencies designed to ensure that this critical energy infrastructure project will meet the stringent environmental standards required by law and regulation.

ACP is the subject of challenges in state and federal courts and agencies, including, among others, challenges of the project's incidental take statement (ITS), crossings of the Blue Ridge Parkway, the Appalachian Trail, and the Monongahela and George Washington National Forests, the project's U.S. Army Corps of Engineers (USACE) 404 permit, the Virginia conditional 401 water quality certification, the FERC Environmental Impact Statement order and the FERC order approving the Certificate of Public Convenience and Necessity. Each of these challenges alleges non-compliance on the part of federal and state permitting authorities and adverse ecological consequences if the project is permitted to proceed. ACP is vigorously defending these challenges and coordinating with the federal and state authorities which are the direct parties to the challenges. Since July 2018, notable developments in these challenges include a stay issued by the U.S. Court of Appeals for the Fourth Circuit (Fourth Circuit) on construction activities through the Monongahela and George

Washington National Forests, a reissuance of the project's ITS and Blue Ridge Parkway right-of-way and renewed challenges of these reissued permits, a stay issued by the Fourth Circuit of the project's biological opinion and ITS (which stay has halted most project construction activity), a Fourth Circuit decision vacating the project's permits to cross the Monongahela and George Washington National Forests and the Appalachian Trail and the Fourth Circuit's remand to USACE of ACP's Huntington District 404 verification.

The delays resulting from the legal challenges described above have impacted the cost and schedule for the project. As a result, project cost estimates have increased to \$7.0 billion to \$7.8 billion, excluding financing costs. ACP expects to achieve a late 2020 in-service date for key segments of the project, while it expects the remainder to extend into 2021. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications in the future.

Sabal Trail Transmission, LLC

On May 4, 2015, Duke Energy acquired a 7.5 percent ownership interest in Sabal Trail, which is accounted for as an equity method investment, from Spectra Energy Partners, LP, a master limited partnership, formed by Enbridge Inc. (formerly Spectra Energy Corp.). Spectra Energy Partners, LP holds a 50 percent ownership interest in Sabal Trail and NextEra Energy has a 42.5 percent ownership interest. Sabal Trail is a joint venture to construct a 515-mile natural gas pipeline (Sabal Trail pipeline) to transport natural gas to Florida. Total estimated project costs are approximately \$3.2 billion. The Sabal Trail pipeline traverses Alabama, Georgia and Florida. The primary customers of the Sabal Trail pipeline, Duke Energy Florida and FP&L have each contracted to buy pipeline capacity for 25-year initial terms. See Notes 12 and 17 for additional information related to Duke Energy's ownership interest.

On February 3, 2016, the FERC issued an order granting the request for a CPCN to construct and operate the pipeline. The Sabal Trail pipeline received other required regulatory approvals and the Phase 1 mainline was placed in service in July 2017. On October 12, 2017, Sabal Trail filed a request with FERC to place in-service a lateral line to Duke Energy Florida's Citrus County CC. This request is required to support commissioning and testing activities at the facility. On March 16, 2018, FERC approved the Citrus lateral and it was placed in service.

On September 21, 2016, intervenors filed an appeal of FERC's CPCN orders to the U.S. Court of Appeals for the District of Columbia Circuit (D.C. Circuit Court of Appeals). On August 22, 2017, the appeals court ruled against FERC in the case for failing to include enough information on the impact of greenhouse-gas emissions carried by the pipeline, vacated the CPCN order and remanded the case to FERC. In response to the August 2017 court decision, the FERC issued a draft Supplemental Environmental Impact Statement (SEIS) on September 27, 2017. On October 6, 2017, FERC and a group of industry intervenors, including Sabal Trail and Duke Energy Florida, filed separate petitions with the D.C. Circuit Court of Appeals requesting rehearing regarding the court's decision to vacate the CPCN order. On January 31, 2018, the D.C. Circuit Court of Appeals denied the requests for rehearing. On February 2, 2018, Sabal Trail filed a request with FERC for expedited issuance of its order on remand and reissuance of the CPCN. In the alternative, the pipeline requested that FERC issue a temporary emergency CPCN to allow for continued operations. On February 5, 2018, FERC issued the final SEIS. On February 6, 2018, FERC and the intervenors in this case each filed motions for stay with the D.C. Circuit Court to stay the court's mandate. On March 7, 2018, the D.C. Circuit Court of Appeals granted FERC and Sabal Trail's stay request. On March 14, 2018, FERC issued its final order on remand, which recertified the project. On August 10, 2018, FERC denied requests for rehearing of the final order on remand.

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Constitution Pipeline Company, LLC

Duke Energy owns a 24 percent ownership interest in Constitution, which is accounted for as an equity method investment. Constitution is a natural gas pipeline project slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. The pipeline will be constructed and operated by Williams Partners L.P., which has a 41 percent ownership share. The remaining interest is held by Cabot Oil and Gas Corporation and WGL Holdings, Inc. Before the permitting delays discussed below, Duke Energy's total anticipated contributions were approximately \$229 million. As a result of the permitting delays and project uncertainty, total anticipated contributions by Duke Energy can no longer be reasonably estimated. Since April 2016, with the actions of the New York State Department of Environmental Conservation (NYSDEC), Constitution stopped construction and discontinued capitalization of future development costs until the project's uncertainty is resolved.

In December 2014, Constitution received approval from the FERC to construct and operate the proposed pipeline. However, on April 22, 2016, the NYSDEC denied Constitution's application for a necessary water quality certification for the New York portion of the Constitution pipeline. Constitution filed legal actions in the U.S. Court of Appeals for the Second Circuit (U.S. Court of Appeals) challenging the legality and appropriateness of the NYSDEC's decision and on August 18, 2017, the petition was denied in part and dismissed in part. In September 2017, Constitution filed a petition for a rehearing of portions of the decision unrelated to the water quality certification, which was denied by the U.S. Court of Appeals. In January 2018, Constitution petitioned the Supreme Court of the United States to review the U.S. Court of Appeals decision, and on April 30, 2018, the Supreme Court denied Constitution's petition. In October 2017, Constitution filed a petition for declaratory order requesting FERC to find that the NYSDEC waived its rights to issue a Section

401 water quality certification by not acting on Constitution's application within a reasonable period of time as required by statute. This petition was based on precedent established by another pipeline's successful petition with FERC following a District of Columbia Circuit Court ruling. On January 11, 2018, FERC denied Constitution's petition. In February 2018, Constitution filed a rehearing request with FERC of its finding that the NYSDEC did not waive the Section 401 certification requirement. On July 19, 2018, FERC denied Constitution's rehearing request. Constitution is currently unable to approximate an in-service date for the project due to the NYSDEC's denial of the water quality certification. The Constitution partners remain committed to the project and are evaluating next steps to move the project forward. On June 25, 2018, Constitution filed with FERC a Request for Extension of Time until December 2, 2020, for construction of the project. On November 5, 2018, FERC issued an Order Granting Extension of Time.

See Notes 12 and 17 for additional information related to ownership interest and carrying value of the investment.

Potential Coal Plant Retirements

The Subsidiary Registrants periodically file IRPs with their state regulatory commissions. The IRPs provide a view of forecasted energy needs over a long term (10 to 20 years) and options being considered to meet those needs. IRPs filed by the Subsidiary Registrants included planning assumptions to potentially retire certain coal-fired generating facilities in North Carolina and Indiana earlier than their current estimated useful lives primarily because facilities do not have the requisite emission control equipment to meet regulatory requirements expected to apply in the near future. Duke Energy continues to evaluate the potential need to retire these coal-fired generating facilities earlier than the current estimated useful lives and plans to seek regulatory recovery for amounts that would not be otherwise recovered when any of these assets are retired.

The table below contains the net carrying value of generating facilities planned for retirement or included in recent IRPs as evaluated for potential retirement due to a lack of requisite environmental control equipment. Dollar amounts in the table below are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, and exclude capitalized asset retirement costs.

	Capacity (in MW)	Remaining Net Book Value (in millions)
Duke Energy Carolinas		
Allen Steam Station Units 1-3 ^(a)	585	\$ 162
Duke Energy Indiana		
Gallagher Units 2 and 4 ^(b)	280	121
Total Duke Energy	865	\$ 283

(a) Duke Energy Carolinas will retire Allen Steam Station Units 1 through 3 by December 31, 2024, as part of the resolution of a lawsuit involving alleged New Source Review violations.
(b) Duke Energy Indiana committed to either retire or stop burning coal at Gallagher Units 2 and 4 by December 31, 2022, as part of the 2016 settlement of Edwardsport IGCC matters.

Refer to the "Western Carolinas Modernization Plan" discussion above for details of Duke Energy Progress' planned retirements.

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5. COMMITMENTS AND CONTINGENCIES

INSURANCE

General Insurance

The Duke Energy Registrants have insurance and reinsurance coverage either directly or through indemnification from Duke Energy's captive insurance company, Bison, and its affiliates, consistent with companies engaged in similar commercial operations with similar type properties. The Duke Energy Registrants' coverage includes (i) commercial general liability coverage for liabilities arising to third parties for bodily injury and property damage; (ii) workers' compensation; (iii) automobile liability coverage; and (iv) property coverage for all real and personal property damage. Real and personal property damage coverage excludes electric transmission and distribution lines, but includes damages arising from boiler and machinery breakdowns, earthquakes, flood damage and extra expense, but not outage or replacement power coverage. All coverage is subject to certain deductibles or retentions, sublimits, exclusions, terms and conditions common for companies with similar types of operations. The Duke Energy Registrants self-insure their electric transmission and distribution lines against loss due to storm damage and other natural disasters. As discussed further in Note 4, Duke Energy Florida maintains a storm damage reserve and has a regulatory mechanism to recover the cost of named storms on an expedited basis.

The cost of the Duke Energy Registrants' coverage can fluctuate year to year reflecting claims history and conditions of the insurance and reinsurance markets.

In the event of a loss, terms and amounts of insurance and reinsurance available might not be adequate to cover claims and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on the Duke Energy Registrants' results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Insurance

Duke Energy Carolinas owns and operates McGuire and Oconee and operates and has a partial ownership interest in Catawba. McGuire and Catawba each have two reactors. Oconee has three reactors. The other joint owners of Catawba reimburse Duke Energy Carolinas for certain expenses associated with nuclear insurance per the Catawba joint owner agreements.

Duke Energy Progress owns and operates Robinson, Brunswick and Harris. Robinson and Harris each have one reactor. Brunswick has two reactors.

Duke Energy Florida owns Crystal River Unit 3, which permanently ceased operation in 2013 and reached a SAFSTOR condition in January 2018 after the successful transfer of all used nuclear fuel assemblies to an on-site dry cask storage facility.

In the event of a loss, terms and amounts of insurance available might not be adequate to cover property damage and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on Duke Energy Carolinas', Duke Energy Progress' and Duke Energy Florida's results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Liability Coverage

The Price-Anderson Act requires owners of nuclear reactors to provide for public nuclear liability protection per nuclear incident up to a maximum total financial protection liability. The maximum total financial protection liability, which is approximately \$14.1 billion, is subject to change every five years for inflation and for the number of licensed reactors. Total nuclear liability coverage consists of a combination of private primary nuclear liability insurance coverage and a mandatory industry risk-sharing program to provide for excess nuclear liability coverage above the maximum reasonably available private primary coverage. The U.S. Congress could impose revenue-raising measures on the nuclear industry to pay claims.

Primary Liability Insurance

Duke Energy Carolinas and Duke Energy Progress have purchased the maximum reasonably available private primary nuclear liability insurance as required by law, which is \$450 million per station. Duke Energy Florida has purchased \$100 million primary nuclear liability insurance in compliance with the law.

Excess Liability Program

This program provides \$13.6 billion of coverage per incident through the Price-Anderson Act's mandatory industrywide excess secondary financial protection program of risk pooling. This amount is the product of potential cumulative retrospective premium assessments of \$138 million times the current 99 licensed commercial nuclear reactors in the U.S. Under this program, licensees could be assessed retrospective premiums to compensate for public nuclear liability damages in the event of a nuclear incident at any licensed facility in the U.S. Retrospective premiums may be assessed at a rate not to exceed \$20.5 million per year per licensed reactor for each incident. The assessment may be subject to state premium taxes.

Nuclear Property and Accidental Outage Coverage

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are members of NEIL, an industry mutual insurance company, which provides property damage, nuclear accident decontamination and premature decommissioning insurance for each station for losses resulting from damage to its nuclear plants, either due to accidents or acts of terrorism. Additionally, NEIL provides accidental outage coverage for each station for losses in the event of a major accidental outage at an insured nuclear station.

Pursuant to regulations of the NRC, each company's property damage insurance policies provide that all proceeds from such insurance be applied, first, to place the plant in a safe and stable condition after a qualifying accident and second, to decontaminate the plant before any proceeds can be used for decommissioning, plant repair or restoration.

Losses resulting from acts of terrorism are covered as common occurrences, such that if terrorist acts occur against one or more commercial nuclear power plants insured by NEIL within a 12-month period, they would be treated as one event and the owners of the plants where the act occurred would share one full limit of liability. The full limit of liability is currently \$3.2 billion. NEIL submits the total aggregate for all of their policies for non-nuclear terrorist events to approximately \$1.8 billion.

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Each nuclear facility has accident property damage, nuclear accident decontamination and premature decommissioning liability insurance from NEIL with limits of \$1.5 billion, except for Crystal River Unit 3. Crystal River Unit 3's limit is \$50 million and is on an actual cash value basis. All nuclear facilities except for Catawba and Crystal River Unit 3 also share an additional \$1.25 billion nuclear accident insurance limit above their dedicated underlying limit. This shared additional excess limit is not subject to reinstatement in the event of a loss. Catawba has a dedicated \$1.25 billion of additional nuclear accident insurance limit above its dedicated underlying limit. Catawba and Oconee also have an additional \$750 million of non-nuclear accident property damage limit. All coverages are subject to sublimits and significant deductibles.

NEIL's Accidental Outage policy provides some coverage, such as business interruption, for losses in the event of a major accident property damage outage of a nuclear unit. Coverage is provided on a weekly limit basis after a significant waiting period deductible and at 100 percent of the available weekly limits for 52 weeks and 80 percent of the available weekly limits for the next 110 weeks. Coverage is provided until these available weekly periods are met where the accidental outage policy limit will not exceed \$490 million for McGuire, Catawba and Harris, \$476 million for Brunswick, \$462 million for Oconee and \$392 million for Robinson. NEIL sublimits the accidental outage recovery to the first 104 weeks of coverage not to exceed \$328 million from non-nuclear accidental property damage. Coverage amounts decrease in the event more than one unit at a station is out of service due to a common accident. All coverages are subject to sublimits and significant deductibles.

Potential Retroactive Premium Assessments

In the event of NEIL losses, NEIL's board of directors may assess member companies' retroactive premiums of amounts up to 10 times their annual premiums for up to six years after a loss. NEIL has never exercised this assessment. The maximum aggregate annual retrospective premium obligations for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are \$159 million, \$97 million and \$1 million, respectively. Duke Energy Carolinas' maximum assessment amount includes 100 percent of

potential obligations to NEIL for jointly owned reactors. Duke Energy Carolinas would seek reimbursement from the joint owners for their portion of these assessment amounts.

ENVIRONMENTAL

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters. These regulations can be changed from time to time, imposing new obligations on the Duke Energy Registrants. The following environmental matters impact all of the Duke Energy Registrants.

Remediation Activities

In addition to the ARO recorded as a result of various environmental regulations, discussed in Note 9, the Duke Energy Registrants are responsible for environmental remediation at various sites. These include certain properties that are part of ongoing operations and sites formerly owned or used by Duke Energy entities. These sites are in various stages of investigation, remediation and monitoring. Managed in conjunction with relevant federal, state and local agencies, remediation activities vary based upon site conditions and location, remediation requirements, complexity and sharing of responsibility. If remediation activities involve joint and several liability provisions, strict liability, or cost recovery or contribution actions, the Duke Energy Registrants could potentially be held responsible for environmental impacts caused by other potentially responsible parties and may also benefit from insurance policies or contractual indemnities that cover some or all cleanup costs. Liabilities are recorded when losses become probable and are reasonably estimable. The total costs that may be incurred cannot be estimated because the extent of environmental impact, allocation among potentially responsible parties, remediation alternatives and/or regulatory decisions have not yet been determined at all sites. Additional costs associated with remediation activities are likely to be incurred in the future and could be significant. Costs are typically expensed as Operation, maintenance and other in the Consolidated Statements of Operations unless regulatory recovery of the costs is deemed probable.

The following tables contain information regarding reserves for probable and estimable costs related to the various environmental sites. These reserves are recorded in Accounts payable within Current Liabilities and Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Balance at December 31, 2015	\$ 94	\$ 10	\$ 17	\$ 3	\$ 14	\$ 54	\$ 12
Provisions/adjustments	19	4	7	2	4	7	1
Cash reductions	(15)	(4)	(6)	(2)	(4)	(2)	(3)
Balance at December 31, 2016	98	10	18	3	14	59	10
Provisions/adjustments	8	3	3	2	2	3	(4)
Cash reductions	(25)	(3)	(6)	(2)	(4)	(15)	(1)
Balance at December 31, 2017	81	10	15	3	12	47	5
Provisions/adjustments	26	3	2	3	(2)	21	1
Cash reductions	(30)	(2)	(6)	(2)	(4)	(20)	(1)
Balance at December 31, 2018	\$ 77	\$ 11	\$ 11	\$ 4	\$ 6	\$ 48	\$ 5

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As of December 31, 2016, and October 31, 2016 and 2015, Piedmont's environmental reserve was \$1 million. As of December 31, 2018, and 2017, the reserve was \$2 million.

Additional losses in excess of recorded reserves that could be incurred for the stages of investigation, remediation and monitoring for environmental sites that have been evaluated at this time are not material except as presented in the table below.

(in millions)	
Duke Energy	\$ 46
Duke Energy Carolinas	17
Duke Energy Ohio	19
Piedmont	2

North Carolina and South Carolina Ash Basins

In February 2014, a break in a stormwater pipe beneath an ash basin at Duke Energy Carolinas' retired Dan River Steam Station caused a release of ash basin water and ash into the Dan River. In July 2014, Duke Energy completed remediation work identified by the EPA and continues to cooperate with the EPA's civil enforcement process. The NCDEQ has historically assessed Duke Energy Carolinas and Duke Energy Progress with NOV's for violations that were most often resolved through satisfactory corrective actions and minor, if any, fines or penalties. Subsequent to the Dan River ash release, Duke Energy Carolinas and Duke Energy Progress have been served with a higher level of NOV's, including assessed penalties for violations at Sutton and Dan River Steam Station. Duke Energy Carolinas and Duke Energy Progress continue to resolve violations through corrective actions, and associated penalties related to existing unresolved NOV's are not expected to be material.

LITIGATION

Duke Energy Carolinas and Duke Energy Progress

Coal Ash Insurance Coverage Litigation

In March 2017, Duke Energy Carolinas and Duke Energy Progress filed a civil action in the North Carolina Superior Court against various insurance providers. The lawsuit seeks payment for coal ash-related liabilities covered by third-party liability insurance policies. The insurance policies were issued between 1971 and 1986 and provide third-party liability insurance for property damage. The civil action seeks damages for breach of contract and indemnification for costs arising from the Coal Ash Act and the EPA CCR rule at 15 coal-fired plants in North Carolina and South Carolina. On January 23, 2019, the court granted the parties' joint motion for a four month stay of the proceedings, until June 3, 2019, to allow the parties to discuss potential resolution. If the case is not fully resolved at that time, litigation will resume. The trial remains scheduled for August 2020. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

NCDEQ State Enforcement Actions

In the first quarter of 2013, SELC sent notices of intent to sue Duke Energy Carolinas and Duke Energy Progress related to alleged CWA violations from coal ash basins at two coal-fired power plants in North Carolina. The NCDEQ filed enforcement actions against Duke Energy Carolinas and Duke Energy Progress alleging violations of water discharge permits and North Carolina groundwater standards. The cases have been consolidated and are being heard before a single judge in the North Carolina Superior Court.

On August 16, 2013, the NCDEQ filed an enforcement action against Duke Energy Carolinas and Duke Energy Progress related to the remaining coal-fired power plants in North Carolina, alleging violations of the CWA and violations of the North Carolina groundwater standards. Both of these cases have been assigned to the judge handling the enforcement actions discussed above. SELC is representing several environmental groups who have been permitted to intervene in these cases.

The court issued orders in 2016 granting Motions for Partial Summary Judgment for seven of the 14 North Carolina plants with coal ash basins named in the enforcement actions. On February 13, 2017, the court issued an order denying motions for partial summary judgment brought by both the environmental groups and Duke Energy Carolinas and Duke Energy Progress for the remaining seven plants. On March 15, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Notice of Appeal with the North Carolina Court of Appeals to challenge the trial court's order. The parties were unable to reach an agreement at mediation in April 2017 and submitted briefs to the trial court on remaining issues to be tried. On August 1, 2018, the Court of Appeals dismissed the appeal and the matter is proceeding before the trial court. No trial date has been scheduled. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

Federal Citizens Suits

On June 13, 2016, RRBA filed a federal citizen suit in the Middle District of North Carolina alleging unpermitted discharges to surface water and groundwater violations at the Mayo Plant. On August 19, 2016, Duke Energy Progress filed a Motion to Dismiss. On April 26, 2017, the court entered an order dismissing four of the claims in the federal citizen suit. Two claims relating to alleged violations of NPDES permit provisions survived the motion to dismiss, and Duke Energy Progress filed its response on May 10, 2017. Duke Energy Progress and RRBA each filed motions for summary judgment on March 23, 2018. The court has not yet ruled on these motions.

On May 16, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina, which asserts two claims relating to alleged violations of NPDES permit provisions at the Roxboro Plant and one claim relating to the use of nearby water bodies. Duke Energy Progress and RRBA each filed motions for summary judgment on April 17, 2018, and the court has not yet ruled on these motions.

On May 8, 2018, on motion from Duke Energy Progress, the court ordered trial in both of the above matters to be consolidated. Trial is currently scheduled to begin July 15, 2019.

On June 20, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina challenging the closure plans at the Mayo Plant under the EPA CCR Rule. Duke Energy Progress filed a motion to dismiss, which was granted by the court on March 30, 2018. RRBA had until April 30, 2018, to file an appeal to the Fourth Circuit but did not do so.

On August 2, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina challenging the closure plans at the Roxboro Plant under the EPA CCR Rule. Duke Energy Progress filed a motion to dismiss on October 2, 2017, which was granted by the court on May 29, 2018. RRBA had until June 28, 2018, to file an appeal to the Fourth Circuit but did not do so.

On December 5, 2017, various parties filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina for alleged violations at Duke Energy Carolinas' Belews Creek under the CWA. Duke Energy Carolinas' answer to the complaint was filed on August 27, 2018. On October 10, 2018, Duke Energy Carolinas filed Motions to Dismiss for lack of standing, Motion for Judgment on the Pleadings and Motion to Stay Discovery. On January 9, 2019, the court entered an order denying Duke Energy Carolinas' motion to stay discovery. There has been no ruling on the other pending motions.

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Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of these matters.

Groundwater Contamination Claims

Beginning in May 2015, a number of residents living in the vicinity of the North Carolina facilities with ash basins received letters from the NCDEQ advising them not to drink water from the private wells on their land tested by the NCDEQ as the samples were found to have certain substances at levels higher than the criteria set by the DHHS. Results of CSAs testing performed by Duke Energy under the Coal Ash Act have been consistent with historical data provided to state regulators over many years. The DHHS and NCDEQ sent follow-up letters on October 15, 2015, to residents near coal ash basins who have had their wells tested, stating that private well samplings at a considerable distance from coal ash basins, as well as some municipal water supplies, contain similar levels of vanadium and hexavalent chromium, which led investigators to believe these constituents are naturally occurring. In March 2016, DHHS rescinded the advisories.

Duke Energy Carolinas and Duke Energy Progress have received formal demand letters from residents near Duke Energy Carolinas' and Duke Energy Progress' coal ash basins. The residents claim damages for nuisance and diminution in property value, among other things. The parties held three days of mediation discussions, which ended at impasse. On January 6, 2017, Duke Energy Carolinas and Duke Energy Progress received the plaintiffs' notice of their intent to file suits should the matter not settle. The NCDEQ preliminarily approved Duke Energy's permanent water solution plans on January 13, 2017, and as a result shortly thereafter, Duke Energy issued a press release, providing additional details regarding the homeowner compensation package. This package consists of three components: (i) a \$5,000 goodwill payment to each eligible well owner to support the transition to a new water supply, (ii) where a public water supply is available and selected by the eligible well owner, a stipend to cover 25 years of water bills and (iii) the Property Value Protection Plan. The Property Value Protection Plan is a program offered by Duke Energy designed to guarantee eligible plant neighbors the fair market value of their residential property should they decide to sell their property during the time that the plan is offered. Payments are being made and the remaining reserves are not material.

On August 23, 2017, a class-action suit was filed in Wake County Superior Court, North Carolina, against Duke Energy Carolinas and Duke Energy Progress on behalf of certain property owners living near coal ash impoundments at Allen, Asheville, Belews Creek, Buck, Cliffside, Lee, Marshall, Mayo and Roxboro. The class is defined as those who are well-eligible under the Coal Ash Act or those to whom Duke Energy has promised a permanent replacement water supply and seeks declaratory and injunctive relief, along with compensatory damages. Plaintiffs allege that Duke Energy's improper maintenance of coal ash impoundments caused harm, particularly through groundwater contamination. Despite NCDEQ's preliminary approval, Plaintiffs contend that Duke Energy's proposed permanent water solutions plan fails to comply with the Coal Ash Act. On September 28, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Motion to Dismiss and Motion to Strike the class designation. The parties entered into a Settlement Agreement on January 24, 2018, which resulted in the dismissal of the underlying class action on January 25, 2018.

On September 14, 2017, a complaint was filed against Duke Energy Progress in New Hanover County Superior Court by a group of homeowners residing approximately 1 mile from Duke Energy Progress' Sutton Steam Plant. The homeowners allege that coal ash constituents have been migrating from ash impoundments at Sutton into their groundwater for decades and that in 2015,

Duke Energy Progress discovered these releases of coal ash, but failed to notify any officials or neighbors and failed to take remedial action. The homeowners claim unspecified physical and mental injuries as a result of consuming their well water and seek actual damages for personal injury, medical monitoring and punitive damages. On March 6, 2018, Plaintiffs' counsel voluntarily dismissed the action without prejudice.

Duke Energy Carolinas

Asbestos-related Injuries and Damages Claims

Duke Energy Carolinas has experienced numerous claims for indemnification and medical cost reimbursement related to asbestos exposure. These claims relate to damages for bodily injuries alleged to have arisen from exposure to or use of asbestos in connection with construction and maintenance activities conducted on its electric generation plants prior to 1985. As of December 31, 2018, there were 164 asserted claims for non-malignant cases with the cumulative relief sought of up to \$42 million and 87 asserted claims for malignant cases with the cumulative relief sought of up to \$21 million. Based on Duke Energy Carolinas' experience, it is expected that the ultimate resolution of most of these claims likely will be less than the amount claimed.

Duke Energy Carolinas has recognized asbestos-related reserves of \$630 million and \$489 million at December 31, 2018, and 2017, respectively. These reserves are classified in Other within Other Noncurrent Liabilities and Other within Current Liabilities on the Consolidated Balance Sheets. These reserves are based upon Duke Energy Carolinas' best estimate for current and future asbestos claims through 2038 and are recorded on an undiscounted basis. In light of the uncertainties inherent in a longer-term forecast, management does not believe they can reasonably estimate the indemnity and medical costs that might be incurred after 2038 related to such potential claims. It is possible Duke Energy Carolinas may incur asbestos liabilities in excess of the recorded reserves.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. Duke Energy Carolinas' cumulative payments began to exceed the self-insurance retention in 2008. Future payments up to the policy limit will be reimbursed by the third-party insurance carrier. The insurance policy limit for potential future insurance recoveries indemnification and medical cost claim payments is \$764 million in excess of the self-insured retention. Receivables for insurance recoveries were \$739 million and \$585 million at December 31, 2018, and 2017, respectively. These amounts are classified in Other within Other Noncurrent Assets and Receivables within Current Assets on the Consolidated Balance Sheets. Duke Energy Carolinas is not aware of any uncertainties regarding the legal sufficiency of insurance claims. Duke Energy Carolinas believes the insurance recovery asset is probable of recovery as the insurance carrier continues to have a strong financial strength rating.

Duke Energy Progress and Duke Energy Florida

Spent Nuclear Fuel Matters

On October 16, 2014, Duke Energy Progress and Duke Energy Florida sued the U.S. in the U.S. Court of Federal Claims. The lawsuit claimed the Department of Energy breached a contract in failing to accept spent nuclear fuel under the Nuclear Waste Policy Act of 1982 and asserted damages for the cost of on-site storage. Duke Energy Progress and Duke Energy Florida asserted damages for the period January 1, 2011, through December 31, 2013, of \$48 million and \$25 million, respectively. On November 17, 2017, the Court awarded

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Duke Energy Progress and Duke Energy Florida \$48 million and \$21 million, respectively, subject to appeal. No appeals were filed and Duke Energy Progress and Duke Energy Florida recognized the recoveries in the first quarter of 2018. Claims for all periods through 2013 have been resolved. On June 22, 2018, Duke Energy Progress and Duke Energy Florida filed a complaint for damages incurred for 2014 through first quarter 2018.

Duke Energy Progress

Gypsum Supply Agreements Matter

On June 30, 2017, CertainTeed filed a declaratory judgment action against Duke Energy Progress in the North Carolina Business Court relating to a gypsum supply agreement. In its complaint, CertainTeed sought an order from the court declaring that the minimum amount of gypsum Duke Energy Progress must provide to CertainTeed under the supply agreement was 50,000 tons per month through 2029. Trial in this matter was completed on July 16, 2018. On August 29, 2018, the court issued an order and opinion finding that Duke Energy Progress is required to supply 50,000 tons of gypsum/month, but that CertainTeed's sole remedy for Duke Energy Progress' long-term discontinuance under the agreement is liquidated damages. On November 14, 2018, the parties reached a settlement agreement. The amount owed under the liquidated damages provision is approximately \$90 million on an undiscounted basis over 10 years. Approximately \$3 million was paid in 2018. As of December 31, 2018, \$9 million is recorded in Accounts payable within Current Liabilities and \$63 million in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets. The liability is recorded on a discounted basis at a rate of approximately 4 percent. These costs are probable of recovery from customers and are recorded in Regulatory Assets within Other Noncurrent Assets on the Consolidated Balance Sheets.

Duke Energy Florida

Fluor Contract Litigation

On January 29, 2019, Fluor filed a breach of contract lawsuit in the U.S. District Court for the Middle District of Florida against Duke Energy Florida related to an EPC agreement for the combined-cycle natural gas plant in Citrus County, Florida. Fluor filed an amended complaint on February, 13, 2019. Fluor's multicount complaint seeks civil, statutory and contractual remedies related to Duke Energy Florida's \$67 million draw in early 2019, on Fluor's letter of credit and offset of invoiced amounts. Duke Energy Florida is attempting to recover from Fluor \$110 million in additional costs incurred by Duke Energy Florida. Duke Energy Florida cannot predict the outcome of this matter. See Note 4 for additional information.

Class-Action Lawsuit

On February 22, 2016, a lawsuit was filed in the U.S. District Court for the Southern District of Florida on behalf of a class of Duke Energy Florida and FP&L's customers in Florida. The suit alleges the State of Florida's NCRS are unconstitutional and pre-empted by federal law. Plaintiffs claim they are entitled to repayment of all money paid by customers of Duke Energy Florida and FP&L as a result of the NCRS, as well as an injunction against any future charges under those statutes. The constitutionality of the NCRS has been challenged unsuccessfully in a number of prior cases on alternative grounds. Duke Energy

Florida and FP&L filed motions to dismiss the complaint on May 5, 2016. On September 21, 2016, the Court granted the motions to dismiss with prejudice. Plaintiffs filed a motion for reconsideration, which was denied. On January 4, 2017, plaintiffs filed a notice of appeal to the Eleventh Circuit U.S. Court of Appeals (Eleventh Circuit). On July 11, 2018, the Eleventh Circuit affirmed the U.S. District Court's dismissal of the lawsuit. The deadline to file a petition for cert was October 9, 2018, and no petition was filed; therefore, the dismissal of the lawsuit is final.

Westinghouse Contract Litigation

On March 28, 2014, Duke Energy Florida filed a lawsuit against Westinghouse in the U.S. District Court for the Western District of North Carolina. The lawsuit seeks recovery of \$54 million in milestone payments in excess of work performed under an EPC for Levy as well as a determination by the court of the amounts due to Westinghouse as a result of the termination of an EPC contract. Duke Energy Florida recognized an exit obligation as a result of the termination of the EPC. On March 31, 2014, Westinghouse filed a separate lawsuit against Duke Energy Florida in U.S. District Court for the Western District of Pennsylvania alleging damages under the same EPC contract in excess of \$510 million for engineering and design work, costs to end supplier contracts and an alleged termination fee. On June 9, 2014, the judge in the North Carolina case ruled that the litigation will proceed in the Western District of North Carolina.

On July 11, 2016, Duke Energy Florida and Westinghouse filed separate Motions for Summary Judgment. On September 29, 2016, the court issued its ruling, granting Westinghouse a \$30 million termination fee claim and dismissing Duke Energy Florida's \$54 million refund claim. Westinghouse's claim for termination costs continued to trial. Following a trial on the matter, the court issued an order in December 2016 denying Westinghouse's claim for termination costs and reaffirming its earlier ruling in favor of Westinghouse on the \$30 million termination fee. Judgment was entered against Duke Energy Florida in the amount of approximately \$34 million, which includes prejudgment interest. Westinghouse appealed the trial court's order to the Fourth Circuit and Duke Energy Florida cross-appealed.

On March 29, 2017, Westinghouse filed Chapter 11 bankruptcy in the Southern District of New York, which automatically stayed the appeal. On May 23, 2017, the bankruptcy court entered an order lifting the stay with respect to the appeal. Westinghouse and Duke Energy Florida executed a settlement agreement resolving this matter on April 5, 2018. The bankruptcy court approved the settlement and Duke Energy Florida paid approximately \$34 million to Westinghouse in July 2018 pursuant to this agreement. At the request of the parties, the Fourth Circuit has dismissed the appeal.

MGP Cost Recovery Action

On December 30, 2011, Duke Energy Florida filed a lawsuit against FirstEnergy to recover investigation and remediation costs incurred by Duke Energy Florida in connection with the restoration of two former MGP sites in Florida. Duke Energy Florida alleged that FirstEnergy, as the successor to Associated Gas & Electric Co., owes past and future contribution and response costs of up to \$43 million for the investigation and remediation of MGP sites. On December 6, 2016, the trial court entered judgment against Duke Energy Florida in the case. In January 2017, Duke Energy Florida appealed the decision to the U.S. Court of Appeals for the Sixth Circuit, which affirmed the trial court's ruling on April 10, 2018. The dismissal of the lawsuit is therefore final.

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Other Litigation and Legal Proceedings

The Duke Energy Registrants are involved in other legal, tax and regulatory proceedings arising in the ordinary course of business, some of which involve significant amounts. The Duke Energy Registrants believe the final disposition of these proceedings will not have a material effect on their results of operations, cash flows or financial position.

The table below presents recorded reserves based on management's best estimate of probable loss for legal matters, excluding asbestos-related reserves, the Certain leed liquidated damages obligation and the exit obligation in 2017 related to the termination of an EPC contract. Reserves are classified on the Consolidated Balance Sheets in Other within Other Noncurrent Liabilities and Other within Current Liabilities. The reasonably possible range of loss in excess of recorded reserves is not material, other than as described above.

(in millions)	December 31,	
	2018	2017
Reserves for Legal Matters		
Duke Energy	\$ 65	\$ 88
Duke Energy Carolinas	9	30
Progress Energy	54	55
Duke Energy Progress	12	13
Duke Energy Florida	24	24
Piedmont	1	2

OTHER COMMITMENTS AND CONTINGENCIES

General

As part of their normal business, the Duke Energy Registrants are party to various financial guarantees, performance guarantees and other contractual commitments to extend guarantees of credit and other assistance to various subsidiaries, investees and other third parties. These guarantees involve elements of performance and credit risk, which are not fully recognized on the Consolidated Balance Sheets and have unlimited maximum potential payments. However, the Duke Energy Registrants do not believe these guarantees will have a material effect on their results of operations, cash flows or financial position.

Purchase Obligations

Purchased Power

Duke Energy Progress, Duke Energy Florida and Duke Energy Ohio have ongoing purchased power contracts, including renewable energy contracts, with other utilities, wholesale marketers, co-generators and qualified facilities. These purchased power contracts generally provide for capacity and energy payments. In addition, Duke Energy Progress and Duke Energy Florida have various contracts to secure transmission rights.

The following table presents executory purchased power contracts with terms exceeding one year, excluding contracts classified as leases.

(in millions)	Contract Expiration	Minimum Purchase Amount at December 31, 2018							Total
		2019	2020	2021	2022	2023	Thereafter		
Duke Energy Progress ^(a)	2022-2031	\$ 51	\$ 52	\$ 53	\$ 30	\$ 25	\$ 215	\$ 426	
Duke Energy Florida ^(b)	2021-2025	363	380	365	363	382	361	2,214	
Duke Energy Ohio ^{(c)(d)}	2020-2022	146	117	53	11	—	—	327	

- (a) Contracts represent 100 percent of net plant output.
 (b) Contracts represent between 81 percent and 100 percent of net plant output.
 (c) Contracts represent between 1 percent and 8 percent of net plant output.
 (d) Excludes PPA with DVEC. See Note 17 for additional information.

Gas Supply and Capacity Contracts

Duke Energy Ohio and Piedmont routinely enter into long-term natural gas supply commodity and capacity commitments and other agreements that commit future cash flows to acquire services needed in their businesses. These commitments include pipeline and storage capacity contracts and natural gas supply contracts to provide service to customers. Costs arising from the natural gas supply commodity and capacity commitments, while significant, are pass-through costs to customers and are generally fully recoverable through the fuel adjustment or PGA procedures and prudence reviews in North Carolina and South Carolina and under the Tennessee Incentive Plan in Tennessee. In the Midwest, these costs are recovered via the Gas Cost Recovery Rate in Ohio or the Gas Cost Adjustment Clause in Kentucky. The time periods for fixed payments under pipeline and storage capacity contracts are up to 16 years. The time periods for fixed payments under natural gas supply contracts are up to seven years. The time period for the natural gas supply purchase commitments is up to 12 years.

Certain storage and pipeline capacity contracts require the payment of demand charges that are based on rates approved by the FERC in order to maintain rights to access the natural gas storage or pipeline capacity on a firm basis during the contract term. The demand charges that are incurred in each period are recognized in the Consolidated Statements of Operations and Comprehensive Income as part of natural gas purchases and are included in Cost of natural gas.

The following table presents future unconditional purchase obligations under natural gas supply and capacity contracts as of December 31, 2018.

(in millions)	Duke Energy	Duke Energy Ohio	Piedmont
2019	\$ 314	\$ 38	\$ 276
2020	287	30	257
2021	255	29	226
2022	225	11	214
2023	148	4	144
Thereafter	1,067	—	1,067
Total	\$ 2,296	\$ 112	\$ 2,184

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Operating and Capital Lease Commitments

The Duke Energy Registrants lease office buildings, railcars, vehicles and other property and equipment with various terms and expiration dates. Additionally, Duke Energy Carolinas and Duke Energy Progress have capital leases related to firm natural gas pipeline transportation capacity. Duke Energy Progress and Duke Energy Florida have entered into certain purchased power agreements, which are classified as leases. Consolidated capitalized lease obligations are classified as Long-Term Debt or Other within Current Liabilities on the Consolidated Balance Sheets. Amortization of assets recorded under capital leases is included in Depreciation and amortization and Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

The following tables present rental expense for operating leases. These amounts are included in Operation, maintenance and other and Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$268	\$241	\$242
Duke Energy Carolinas	49	44	45
Progress Energy	143	130	140
Duke Energy Progress	75	75	68
Duke Energy Florida	68	55	72
Duke Energy Ohio	13	15	16
Duke Energy Indiana	21	23	23

(in millions)	Years Ended December 31,		Two Months Ended	
	2018	2017	December 31, 2016	Year Ended October 31, 2016
Piedmont	\$11	\$7	\$1	\$5

The following table presents future minimum lease payments under operating leases, which at inception had a non-cancelable term of more than one year.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2019	\$ 239	\$ 33	\$ 97	\$ 49	\$ 48	\$ 2	\$ 6	\$ 5
2020	219	29	90	46	44	2	5	5
2021	186	19	79	37	42	2	4	5
2022	170	19	76	34	42	2	4	5
2023	160	17	77	35	42	2	5	6
Thereafter	1,017	68	455	314	141	23	66	11
Total	\$1,991	\$185	\$ 874	\$515	\$359	\$ 33	\$90	\$ 37

The following table presents future minimum lease payments under capital leases.

(in millions)	December 31, 2018						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
2019	\$ 170	\$ 20	\$ 45	\$ 20	\$ 25	\$ 2	\$ 1
2020	174	20	46	21	25	—	1
2021	177	15	45	20	25	—	1
2022	165	15	45	21	24	—	1
2023	165	15	45	21	24	—	1
Thereafter	577	204	230	209	21	—	27
Minimum annual payments	1,428	289	456	312	144	2	32
Less: amount representing interest	(487)	(180)	(205)	(175)	(30)	—	(22)
Total	\$ 941	\$ 109	\$ 251	\$ 137	\$ 114	\$ 2	\$ 10

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6. DEBT AND CREDIT FACILITIES

SUMMARY OF DEBT AND RELATED TERMS

The following tables summarize outstanding debt.

(in millions)	December 31, 2018								
	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured debt, maturing 2019-2078	4.26%	\$ 20,955	\$ 1,150	\$ 3,800	\$ 50	\$ 350	\$ 1,000	\$ 408	\$ 2,150
Secured debt, maturing 2020-2037	3.69%	4,297	450	1,703	300	1,403	—	—	—
First mortgage bonds, maturing 2019-2048 ^(a)	4.32%	25,628	8,759	13,100	7,574	5,526	1,099	2,670	—
Capital leases, maturing 2019-2051 ^(b)	5.06%	941	109	251	137	114	2	10	—
Tax-exempt bonds, maturing 2019-2041 ^(c)	3.40%	941	243	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	2.73%	4,035	—	—	—	—	—	—	—
Money pool/intercompany borrowings		—	739	1,385	444	108	299	317	198
Fair value hedge carrying value adjustment		5	5	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)		1,434	(23)	(29)	(15)	(11)	(31)	(8)	(1)
Unamortized debt issuance costs ^(f)		(297)	(54)	(112)	(40)	(61)	(7)	(20)	(11)
Total debt	4.13%	\$ 57,939	\$ 11,378	\$ 20,146	\$ 8,498	\$ 7,429	\$ 2,439	\$ 3,949	\$ 2,336
Short-term notes payable and commercial paper		(3,410)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings		—	(439)	(1,235)	(294)	(108)	(274)	(167)	(198)
Current maturities of long-term debt ^(g)		(3,406)	(6)	(1,672)	(603)	(270)	(551)	(63)	(350)
Total long-term debt^(g)		\$ 51,123	\$ 10,933	\$ 17,239	\$ 7,601	\$ 7,051	\$ 1,614	\$ 3,719	\$ 1,788

(a) Substantially all electric utility property is mortgaged under mortgage bond indentures.

(b) Duke Energy includes \$63 million and \$531 million of capital lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to power purchase agreements that are not accounted for as capital leases in their respective financial statements because of grandfathering provisions in GAAP.

(c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.

(d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper program was 16 days.

(e) Duke Energy includes \$1,380 million and \$156 million in purchase accounting adjustments related to Progress Energy and Piedmont, respectively.

(f) Duke Energy includes \$41 million in purchase accounting adjustments primarily related to the merger with Progress Energy.

(g) Refer to Note 17 for additional information on amounts from consolidated VIEs.

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2017								
	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
Unsecured debt, maturing 2018-2073	4.17%	\$ 20,409	\$ 1,150	\$ 3,950	\$ —	\$ 550	\$ 900	\$ 411	\$ 2,050
Secured debt, maturing 2018-2037	3.15%	4,458	450	1,757	300	1,457	—	—	—
First mortgage bonds, maturing 2018-2047 ^(a)	4.51%	23,529	7,959	11,801	6,776	5,025	1,100	2,669	—
Capital leases, maturing 2018-2051 ^(b)	4.55%	1,000	61	269	139	129	5	11	—
Tax-exempt bonds, maturing 2019-2041 ^(c)	3.23%	941	243	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	1.57%	2,788	—	—	—	—	—	—	—
Money pool/intercompany borrowings		—	404	955	390	—	54	311	364
Fair value hedge carrying value adjustment		6	6	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)		1,582	(19)	(30)	(16)	(10)	(33)	(9)	(1)
Unamortized debt issuance costs ^(f)		(271)	(47)	(108)	(40)	(56)	(7)	(21)	(12)
Total debt	4.09%	\$ 54,442	\$ 10,207	\$ 18,642	\$ 7,597	\$ 7,095	\$ 2,096	\$ 3,944	\$ 2,401
Short-term notes payable and commercial paper		(2,163)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings		—	(104)	(805)	(240)	—	(29)	(161)	(364)
Current maturities of long-term debt ^(g)		(3,244)	(1,205)	(771)	(3)	(768)	(3)	(3)	(250)
Total long-term debt^(g)		\$ 49,035	\$ 8,898	\$ 17,066	\$ 7,354	\$ 6,327	\$ 2,064	\$ 3,780	\$ 1,787

- (a) Substantially all electric utility property is mortgaged under mortgage bond indentures.
- (b) Duke Energy includes \$81 million and \$603 million of capital lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to power purchase agreements that are not accounted for as capital leases in their respective financial statements because of grandfathering provisions in GAAP.
- (c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.
- (d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper programs was 14 days.
- (e) Duke Energy includes \$1,509 million and \$176 million purchase accounting adjustments related to the mergers with Progress Energy and Piedmont, respectively.
- (f) Duke Energy includes \$47 million in purchase accounting adjustments primarily related to the merger with Progress Energy.
- (g) Refer to Note 17 for additional information on amounts from consolidated VIEs.

CURRENT MATURITIES OF LONG-TERM DEBT

The following table shows the significant components of Current maturities of Long-Term Debt on the Consolidated Balance Sheets. The Duke Energy Registrants currently anticipate satisfying these obligations with cash on hand and proceeds from additional borrowings.

(in millions)	Maturity Date	Interest Rate	December 31, 2018
Unsecured Debt			
Progress Energy	March 2019	7.050%	\$ 450
Duke Energy (Parent)	September 2019	5.050%	500
Piedmont	September 2019	3.155% ^(a)	350
Duke Energy Kentucky	October 2019	4.65%	100
Progress Energy	December 2019	4.875%	350
First Mortgage Bonds			
Duke Energy Progress	January 2019	5.300%	600
Duke Energy Ohio	April 2019	5.450%	450
Other^(a)			606
Current maturities of long-term debt			\$ 3,406

- (a) Includes capital lease obligations, amortizing debt and small bullet maturities.
- (b) Debt has a floating interest rate.

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Combined Notes to Consolidated Financial Statements -- (Continued)

Maturities and Call Options

The following table shows the annual maturities of long-term debt for the next five years and thereafter. Amounts presented exclude short-term notes payable and commercial paper and money pool borrowings for the Subsidiary Registrants.

(in millions)	December 31, 2018							
	Duke Energy ^(a)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2019	\$ 3,408	\$ 6	\$ 1,674	\$ 603	\$ 270	\$ 552	\$ 63	\$ 350
2020	3,765	907	926	354	572	—	503	—
2021	4,803	503	2,004	904	600	50	70	160
2022	2,745	353	1,032	505	77	—	94	—
2023	3,375	1,303	535	456	79	350	153	45
Thereafter	35,288	7,940	12,880	5,437	5,793	1,251	2,925	1,595
Total long-term debt, including current maturities	\$ 53,384	\$ 11,012	\$ 19,051	\$ 8,259	\$ 7,391	\$ 2,203	\$ 3,808	\$ 2,150

(a) Excludes \$1,578 million in purchase accounting adjustments related to the Progress Energy merger and the Piedmont acquisition.

The Duke Energy Registrants have the ability under certain debt facilities to call and repay the obligation prior to its scheduled maturity. Therefore, the actual timing of future cash repayments could be materially different than as presented above.

Short-Term Obligations Classified as Long-Term Debt

Tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder and certain commercial paper issuances and money pool borrowings are classified as Long-Term Debt on the Consolidated Balance Sheets. These tax-exempt bonds, commercial paper issuances and money pool borrowings, which are short-term obligations by nature, are classified as long term due to Duke Energy's intent and ability to utilize such borrowings as long-term financing. As Duke Energy's Master Credit Facility and other bilateral letter of credit agreements have non-cancelable terms in excess of one year as of the balance sheet date, Duke Energy has the ability to refinance these short-term obligations on a long-term basis. The following tables show short-term obligations classified as long-term debt.

(in millions)	December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(in millions)	December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(a) Progress Energy amounts are equal to Duke Energy Progress amounts.

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Combined Notes to Consolidated Financial Statements – (Continued)

Summary of Significant Debt Issuances

In January 2019, Duke Energy Ohio issued \$800 million of first mortgage bonds. The issuance was split between a \$400 million, 10-year tranche at 3.65 percent and a \$400 million, 30-year tranche at 4.30 percent. The net proceeds will be used to refinance \$450 million of Duke Energy Ohio bonds maturing in April 2019, to pay down short-term debt and for general corporate purposes.

The following tables summarize significant debt issuances (in millions).

Issuance Date	Maturity Date	Interest Rate	Year Ended December 31, 2018				
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida
Unsecured Debt							
March 2018 ^(a)	April 2025	3.950%	\$ 250	\$ 250	\$ —	\$ —	\$ —
May 2018 ^(b)	May 2021	3.114%	500	500	—	—	—
September 2018 ^(d)	September 2078	5.625%	500	500	—	—	—
First Mortgage Bonds							
March 2018 ^(e)	March 2023	3.050%	500	—	500	—	—
March 2018 ^(e)	March 2048	3.950%	500	—	500	—	—
June 2018 ^(e)	July 2028	3.800%	600	—	—	—	600
June 2018 ^(e)	July 2048	4.200%	400	—	—	—	400
August 2018 ^(f)	September 2023	3.375%	300	—	—	300	—
August 2018 ^(f)	September 2028	3.700%	500	—	—	500	—
November 2018 ^(g)	May 2022	3.350%	350	—	350	—	—
November 2018 ^(g)	November 2028	3.950%	650	—	650	—	—
Total issuances			\$ 5,050	\$ 1,250	\$ 2,000	\$ 800	\$ 1,000

(a) Debt issued to pay down short-term debt.

(b) Debt issued to pay down short-term debt. Debt issuance has a floating debt rate.

(c) Callable after September 2023 at par. Junior subordinated hybrid debt issued to pay down short-term debt and for general corporate purposes.

(d) Debt issued to repay at maturity a \$300 million first mortgage bond due April 2018, pay down intercompany short-term debt and for general corporate purposes.

(e) Debt issued to repay a portion of intercompany short-term debt under the money pool borrowing arrangement and for general corporate purposes.

(f) Debt issued to repay short-term debt and for general corporate purposes.

(g) Debt issued to fund eligible green energy projects, including zero-carbon solar and energy storage, in the Carolinas.

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Issuance Date	Maturity Date	Interest Rate	Year Ended December 31, 2017					
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Unsecured Debt								
April 2017 ^(a)	April 2025	3.364%	\$ 420	\$ 420	\$ —	\$ —	\$ —	\$ —
June 2017 ^(b)	June 2020	2.100%	330	330	—	—	—	—
August 2017 ^(c)	August 2022	2.400%	500	500	—	—	—	—
August 2017 ^(c)	August 2027	3.150%	750	750	—	—	—	—
August 2017 ^(c)	August 2047	3.950%	500	500	—	—	—	—
December 2017 ^(d)	December 2019 ^(a)	2.100%	400	—	—	—	400	—
Secured Debt								
February 2017 ^(e)	June 2034	4.120%	587	—	—	—	—	—
August 2017 ^(b)	December 2036	4.110%	233	—	—	—	—	—
First Mortgage Bonds								
January 2017 ^(f)	January 2020	1.850%	250	—	—	—	250	—
January 2017 ^(g)	January 2027	3.200%	650	—	—	—	650	—
March 2017 ^(b)	June 2046	3.700%	100	—	—	—	—	100
September 2017 ^(h)	September 2020	1.500% ⁽ⁱ⁾	300	—	—	300	—	—
September 2017 ^(h)	September 2047	3.600%	500	—	—	500	—	—
November 2017 ^(j)	December 2047	3.700%	550	—	550	—	—	—
Total issuances			\$ 6,070	\$ 2,500	\$ 550	\$ 800	\$ 1,300	\$ 100

- (a) Proceeds were used to refinance \$400 million of unsecured debt at maturity and to repay a portion of outstanding commercial paper.
- (b) Debt issued to repay a portion of outstanding commercial paper.
- (c) Debt issued to repay at maturity \$700 million of unsecured debt, to repay outstanding commercial paper and for general corporate purposes.
- (d) Debt issued to fund storm restoration costs related to Hurricane Irma and for general corporate purposes.
- (e) Portfolio financing of four Texas and Oklahoma wind facilities. Duke Energy pledged substantially all of the assets of these wind facilities and is nonrecourse to Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures.
- (f) Portfolio financing of eight solar facilities located in California, Colorado and New Mexico. Duke Energy pledged substantially all of the assets of these solar facilities and is nonrecourse to Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures.
- (g) Debt issued to fund capital expenditures for ongoing construction and capital maintenance, to repay a \$250 million aggregate principal amount of bonds at maturity and for general corporate purposes.
- (h) Proceeds were used to fund capital expenditures for ongoing construction, capital maintenance and for general corporate purposes.
- (i) Debt issued to repay at maturity a \$200 million aggregate principal amount of bonds at maturity, pay down intercompany short-term debt and for general corporate purposes, including capital expenditures.
- (j) Debt issued to refinance \$400 million aggregate principal amount of bonds due January 2018, pay down intercompany short-term debt and for general corporate purposes.
- (k) Principal balance will be repaid in equal quarterly installments beginning in March 2018.
- (l) Debt issuance has a floating interest rate.

Available Credit Facilities

In January 2018, Duke Energy extended the termination date of substantially all of its existing \$8 billion Master Credit Facility capacity from March 16, 2022, to March 16, 2023. In May 2018, Duke Energy completed the extension process with 100 percent of all commitments to the Master Credit Facility extending to March 16, 2023. The Duke Energy Registrants, excluding Progress Energy (Parent), have borrowing capacity under the Master Credit Facility up to specified sublimits for each borrower. Duke Energy has the unilateral ability at any time to increase or decrease the borrowing sublimits of

each borrower, subject to a maximum sublimit for each borrower. The amount available under the Master Credit Facility has been reduced to backstop issuances of commercial paper, certain letters of credit and variable-rate demand tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder. Duke Energy Carolinas and Duke Energy Progress are also required to each maintain \$250 million of available capacity under the Master Credit Facility as security to meet obligations under plea agreements reached with the U.S. Department of Justice in 2015 related to violations at North Carolina facilities with ash basins.

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Combined Notes to Consolidated Financial Statements – (Continued)

The table below includes the current borrowing sublimits and available capacity under these credit facilities.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Facility size ^(a)	\$ 8,000	\$ 2,650	\$ 1,750	\$ 1,400	\$ 650	\$ 450	\$ 600	\$ 500
Reduction to backstop issuances								
Commercial paper ^(b)	(3,022)	(917)	(739)	(444)	(108)	(299)	(317)	(198)
Outstanding letters of credit	(53)	(45)	(4)	(2)	—	—	—	(2)
Tax-exempt bonds	(81)	—	—	—	—	—	(81)	—
Coal ash set-aside	(500)	—	(250)	(250)	—	—	—	—
Available capacity	\$ 4,344	\$ 1,688	\$ 757	\$ 704	\$ 542	\$ 151	\$ 202	\$ 300

(a) Represents the sublimit of each borrower.

(b) Duke Energy issued \$625 million of commercial paper and loaned the proceeds through the money pool to Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio and Duke Energy Indiana. The balances are classified as Long-Term Debt Payable to Affiliated Companies in the Consolidated Balance Sheets.

Three-Year Revolving Credit Facility

Duke Energy (Parent) has a \$1.0 billion revolving credit facility through June 2020. Borrowings under this facility will be used for general corporate purposes. As of December 31, 2018, \$500 million has been drawn under the Three Year Revolver. This balance is classified as Long-term debt on Duke Energy's Consolidated Balance Sheets. Any undrawn commitments can be drawn, and borrowings can be prepaid, at any time throughout the term of the facility. The terms and conditions of the Three Year Revolver are generally consistent with those governing Duke Energy's Master Credit Facility.

Duke Energy Progress Term Loan Facility

In December 2018, Duke Energy Progress entered into a two-year term loan facility with commitments totaling \$700 million. Borrowings under the facility will be used to pay storm-related costs, pay down commercial paper and to partially finance an upcoming bond maturity. As of December 31, 2018, \$50 million has been drawn under the term loan. The balance is classified as Long-term debt on Duke Energy Progress' Consolidated Balance Sheets. In January and February 2019, the remaining \$650 million was drawn under the term loan.

Piedmont Term Loan Facility

In September 2018, Piedmont executed an amendment to its existing senior unsecured term loan facility. The amendment increased commitments from \$250 million to \$350 million and extended the maturity date to September 2019. Borrowings under the facility will be used for general corporate purposes. As of December 31, 2018, the entire \$350 million has been drawn under the Piedmont Term Loan. This balance is classified as Current maturities of long-term debt on Piedmont's Consolidated Balance Sheets. The terms and conditions of the Piedmont Term Loan are generally consistent with those governing Duke Energy's Master Credit Facility.

Other Debt Matters

In September 2016, Duke Energy filed a Form S-3 with the SEC. Under this Form S-3, which is uncapped, the Duke Energy Registrants, excluding Progress Energy, may issue debt and other securities in the future at amounts, prices and with terms to be determined at the time of future offerings. The registration statement was filed to replace a similar prior filing upon expiration of its three-year term and also allows for the issuance of common stock by Duke Energy.

Duke Energy has an effective Form S-3 with the SEC to sell up to \$3 billion of variable denomination floating-rate demand notes, called PremierNotes. The Form S-3 states that no more than \$1.5 billion of the notes will be outstanding at any particular time. The notes are offered on a continuous basis and bear interest at a floating rate per annum determined by the Duke Energy PremierNotes Committee, or its designee, on a weekly basis. The interest rate payable on notes held by an investor may vary based on the principal amount of the investment. The notes have no stated maturity date, are non-transferable and may be redeemed in whole or in part by Duke Energy or at the investor's option at any time. The balance as of December 31, 2018, and 2017 was \$1,010 million and \$986 million, respectively. The notes are short-term debt obligations of Duke Energy and are reflected as Notes payable and commercial paper on Duke Energy's Consolidated Balance Sheets.

In January 2017, Duke Energy amended its Form S-3 to add Piedmont as a registrant and included in the amendment a prospectus for Piedmont under which it may issue debt securities in the same manner as other Duke Energy Registrants.

Money Pool

The Subsidiary Registrants, excluding Progress Energy (Parent), are eligible to receive support for their short-term borrowing needs through participation with Duke Energy and certain of its subsidiaries in a money pool arrangement. Under this arrangement, those companies with short-term funds may provide short-term loans to affiliates participating in this arrangement. The money pool is structured such that the Subsidiary Registrants, excluding Progress Energy (Parent), separately manage their cash needs and working capital requirements. Accordingly, there is no net settlement of receivables and payables between money pool participants. Duke Energy (Parent), may loan funds to its participating subsidiaries, but may not borrow funds through the money pool. Accordingly, as the money pool activity is between Duke Energy and its wholly owned subsidiaries, all money pool balances are eliminated within Duke Energy's Consolidated Balance Sheets.

Money pool receivable balances are reflected within Notes receivable from affiliated companies on the Subsidiary Registrants' Consolidated Balance Sheets. Money pool payable balances are reflected within either Notes payable to affiliated companies or Long-Term Debt Payable to Affiliated Companies on the Subsidiary Registrants' Consolidated Balance Sheets.

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Restrictive Debt Covenants

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio not to exceed 65 percent for each borrower, excluding Piedmont, and 70 percent for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements. As of December 31, 2018, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination

of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Other Loans

As of December 31, 2018, and 2017, Duke Energy had loans outstanding of \$741 million, including \$37 million at Duke Energy Progress and \$701 million, including \$38 million at Duke Energy Progress, respectively, against the cash surrender value of life insurance policies it owns on the lives of its executives. The amounts outstanding were carried as a reduction of the related cash surrender value that is included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

7. GUARANTEES AND INDEMNIFICATIONS

Duke Energy and Progress Energy have various financial and performance guarantees and indemnifications, which are issued in the normal course of business. As discussed below, these contracts include performance guarantees, standby letters of credit, debt guarantees, surety bonds and indemnifications. Duke Energy and Progress Energy enter into these arrangements to facilitate commercial transactions with third parties by enhancing the value of the transaction to the third party. At December 31, 2018, Duke Energy and Progress Energy do not believe conditions are likely for significant performance under these guarantees. To the extent liabilities are incurred as a result of the activities covered by the guarantees, such liabilities are included on the accompanying Consolidated Balance Sheets.

On January 2, 2007, Duke Energy completed the spin-off of its natural gas businesses to shareholders. Guarantees issued by Duke Energy or its affiliates, or assigned to Duke Energy prior to the spin-off, remained with Duke Energy subsequent to the spin-off. Guarantees issued by Spectra Capital or its affiliates prior to the spin-off remained with Spectra Capital subsequent to the spin-off, except for guarantees that were later assigned to Duke Energy. Duke Energy has indemnified Spectra Capital against any losses incurred under certain of the guarantee obligations that remain with Spectra Capital. At December 31, 2018, the maximum potential amount of future payments associated with these guarantees was \$205 million, the majority of which expires by 2028.

Duke Energy has issued performance guarantees to customers and other third parties that guarantee the payment and performance of other parties, including certain non-wholly owned entities, as well as guarantees of debt of certain non-consolidated entities and less than wholly owned consolidated entities. If such entities were to default on payments or performance, Duke Energy would be required under the guarantees to make payments on the obligations of the less than wholly owned entity. The maximum potential amount of future payments required under these guarantees as of December 31, 2018, was \$296 million. Of this amount, \$11 million relates to guarantees issued on behalf of less than wholly owned consolidated entities, with the remainder related to guarantees issued on behalf of third parties and unconsolidated

affiliates of Duke Energy. Of the guarantees noted above, \$248 million of the guarantees expire between 2019 and 2030, with the remaining performance guarantees having no contractual expiration.

In October 2017, ACP executed a \$3.4 billion revolving credit facility with a stated maturity date of October 2021. Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$677 million as of December 31, 2018. This amount represents 47 percent of the outstanding borrowings under the credit facility.

Duke Energy guaranteed debt issued by Duke Energy Carolinas of \$650 million as of December 31, 2018, and 2017.

Duke Energy has guaranteed certain issuers of surety bonds, obligating itself to make payment upon the failure of a wholly owned and former non-wholly owned entity to honor its obligations to a third party. Under these arrangements, Duke Energy has payment obligations that are triggered by a draw by the third party or customer due to the failure of the wholly owned or former non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2018, Duke Energy had guaranteed \$63 million of outstanding surety bonds, most of which have no set expiration.

Duke Energy uses bank-issued standby letters of credit to secure the performance of wholly owned and non-wholly owned entities to a third party or customer. Under these arrangements, Duke Energy has payment obligations to the issuing bank that are triggered by a draw by the third party or customer due to the failure of the wholly owned or non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2018, Duke Energy had issued a total of \$454 million in letters of credit, which expire between 2019 and 2022. The unused amount under these letters of credit was \$60 million.

Duke Energy recognized \$23 million and \$21 million, as of December 31, 2018, and 2017, respectively, primarily in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets, for the guarantees discussed above. As current estimates change, additional losses related to guarantees and indemnifications to third parties, which could be material, may be recorded by the Duke Energy Registrants in the future.

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8. JOINT OWNERSHIP OF GENERATING AND TRANSMISSION FACILITIES

The Duke Energy Registrants maintain ownership interests in certain jointly owned generating and transmission facilities. The Duke Energy Registrants are entitled to a share of the generating capacity and output of each unit equal to their respective ownership interests. The Duke Energy Registrants pay their ownership share of additional construction costs, fuel inventory

purchases and operating expenses. The Duke Energy Registrants share of revenues and operating costs of the jointly owned facilities is included within the corresponding line in the Consolidated Statements of Operations. Each participant in the jointly owned facilities must provide its own financing.

The following table presents the Duke Energy Registrants' interest of jointly owned plant or facilities and amounts included on the Consolidated Balance Sheets. All facilities are operated by the Duke Energy Registrants and are included in the Electric Utilities and Infrastructure segment.

(in millions except for ownership interest)	December 31, 2018			
	Ownership Interest	Property, Plant and Equipment	Accumulated Depreciation	Construction Work in Progress
Duke Energy Carolinas				
Catawba (units 1 and 2) ^(a)	19.25%	\$ 989	\$ 483	\$ 17
W.S. Lee CC ^(b)	86.67%	593	12	4
Duke Energy Indiana				
Gibson (unit 5) ^(c)	50.05%	390	173	3
Vermillion ^(d)	62.50%	168	135	—
Transmission and local facilities ^(d)	Various	5,037	1,769	—

- (a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA.
(b) Jointly owned with NCEMC.
(c) Jointly owned with WVPA and Indiana Municipal Power Agency.
(d) Jointly owned with WVPA.

Effective June 30, 2018, Duke Energy Ohio, Ohio Power Company, and The Dayton Power and Light Company, completed an asset exchange that reallocated their ownership interest in certain jointly owned transmission facilities. This transaction was approved by FERC and PUCO. The transaction eliminated the

joint owner relationships for these assets. Assets were exchanged at net book value and the net increase in Duke Energy Ohio's assets are shown within Capital expenditures in Duke Energy Ohio's Consolidated Statements of Cash Flows.

9. ASSET RETIREMENT OBLIGATIONS

Duke Energy records an ARO when it has a legal obligation to incur retirement costs associated with the retirement of a long-lived asset and the obligation can be reasonably estimated. Certain assets of the Duke Energy Registrants have an indeterminate life, such as transmission and distribution facilities, and thus the fair value of the retirement obligation is not reasonably estimable. A liability for these AROs will be recorded when a fair value is determinable.

The Duke Energy Registrants' regulated operations accrue costs of removal for property that does not have an associated legal retirement obligation based on regulatory orders from state commissions. These costs of removal are recorded as a regulatory liability in accordance with regulatory accounting treatment. The Duke Energy Registrants do not accrue the estimated cost of removal for any nonregulated assets. See Note 4 for the estimated cost of removal for assets without an associated legal retirement obligation, which are included in Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the AROs recorded on the Consolidated Balance Sheets.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Decommissioning of nuclear power facilities ^(a)	\$ 5,696	\$ 2,335	\$ 3,209	\$ 2,679	\$ 530	\$ —	\$ —	\$ —
Closure of ash impoundments	4,446	1,568	2,123	2,103	20	52	702	—
Other ^(b)	325	46	79	38	41	41	20	19
Total asset retirement obligation	\$ 10,467	\$ 3,949	\$ 5,411	\$ 4,820	\$ 591	\$ 93	\$ 722	\$ 19
Less: current portion	919	290	514	509	5	6	109	—
Total noncurrent asset retirement obligation	\$ 9,548	\$ 3,659	\$ 4,897	\$ 4,311	\$ 586	\$ 87	\$ 613	\$ 19

- (a) Duke Energy amount includes purchase accounting adjustments related to the merger with Progress Energy.
(b) Primarily includes obligations related to asbestos removal. Duke Energy Ohio and Piedmont also include AROs related to the retirement of natural gas mains and services. Duke Energy includes AROs related to the removal of renewable energy generation assets.

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Nuclear Decommissioning Liability

AROs related to nuclear decommissioning are based on site-specific cost studies. The NCUC, PSCSC and FPSC require updated cost estimates for decommissioning nuclear plants every five years.

The following table summarizes information about the most recent site-specific nuclear decommissioning cost studies. Decommissioning costs are stated in 2018 dollars for Duke Energy Carolinas, 2017 dollars for Duke Energy Florida and 2014 dollars for Duke Energy Progress, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	Annual Funding Requirement ^(a)	Decommissioning Costs ^(a)	Year of Cost Study
Duke Energy	\$ 24	\$ 8,737	2014 and 2018
Duke Energy Carolinas ^{(b)(c)}	—	4,291	2018
Duke Energy Progress	24	3,550	2014
Duke Energy Florida ^(d)	—	896	2018

- (a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.
 (b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.
 (c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 is expected to be filed with the NCUC and PSCSC by the second quarter 2019. Duke Energy Carolinas will also complete a new funding study, which will be completed and filed with the NCUC and PSCSC in 2019.
 (d) Duke Energy Florida's site-specific nuclear decommissioning cost study and a new funding study were completed and filed with the FPSC in 2018.

Nuclear Decommissioning Trust Funds

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida each maintain NDTFs that are intended to pay for the decommissioning costs of their respective nuclear power plants. The NDTF investments are managed and invested in accordance with applicable requirements of various regulatory bodies including the NRC, FERC, NCUC, PSCSC, FPSC and the IRS.

Use of the NDTF investments is restricted to nuclear decommissioning activities including license termination, spent fuel and site restoration. The license termination and spent fuel obligations relate to contaminated decommissioning and are recorded as AROs. The site restoration obligation relates to non-contaminated decommissioning and is recorded to cost of removal within Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the fair value of NDTF assets legally restricted for purposes of settling AROs associated with nuclear decommissioning. Duke Energy Florida is actively decommissioning Crystal River Unit 3 and was granted an exemption from the NRC, which allows for use of the NDTF for all aspects of nuclear decommissioning. The entire balance of Duke Energy Florida's NDTF may be applied toward license termination, spent fuel and site restoration costs incurred to decommission Crystal River Unit 3 and is excluded from the table below. See Note 16 for additional information related to the fair value of the Duke Energy Registrants' NDTFs.

(in millions)	December 31,	
	2018	2017
Duke Energy	\$ 5,579	\$ 5,864
Duke Energy Carolinas	3,133	3,321
Duke Energy Progress	2,446	2,543

Nuclear Operating Licenses

Operating licenses for nuclear units are potentially subject to extension. The following table includes the current expiration of nuclear operating licenses.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. In January 2018, Crystal River Unit 3 reached a SAFSTOR status.

Closure of Ash Impoundments

The Duke Energy Registrants are subject to state and federal regulations covering the closure of coal ash impoundments, including the EPA CCR rule and the Coal Ash Act, and other agreements. AROs recorded on the Duke Energy Registrants' Consolidated Balance Sheets include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of these regulations and agreements.

The ARO amount recorded on the Consolidated Balance Sheets is based upon estimated closure costs for impacted ash impoundments. The amount recorded represents the discounted cash flows for estimated closure costs based upon either specific closure plans or the probability weightings of the potential closure methods as evaluated on a site-by-site basis. Actual costs to be incurred will be dependent upon factors that vary from site to site. The most significant factors are the method and time frame of closure at the individual sites. Closure methods considered include removing the water from ash basins, consolidating material as necessary and capping the ash with a synthetic barrier, excavating and relocating the ash to a lined structural fill or lined landfill or recycling the ash for concrete or some other beneficial use. The ultimate method and timetable for closure will be in compliance with standards set by federal and state regulations and other agreements. The ARO amount will be adjusted as additional information is gained through the closure and post-closure process, including acceptance and approval of compliance approaches, which may change management assumptions, and may result in a material change to the balance. See ARO Liability Rollforward section below for information on revisions made to the coal ash liability during 2018 and 2017.

Asset retirement costs associated with the AROs for operating plants and retired plants are included in Net property, plant and equipment and Regulatory assets, respectively, on the Consolidated Balance Sheets. See Note 4 for additional information on Regulatory assets related to AROs.

Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. See Note 4 for additional information on recovery of coal ash costs.

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ARO Liability Rollforward

The following tables present changes in the liability associated with AROs.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2016	\$ 10,611	\$ 3,895	\$ 5,475	\$ 4,697	\$ 778	\$ 77	\$ 866	\$ 14
Accretion expense ^(a)	435	184	228	195	33	3	32	1
Liabilities settled ^(b)	(619)	(282)	(270)	(204)	(65)	(7)	(49)	(8)
Liabilities incurred in the current year ^(c)	51	5	—	—	—	7	29	8
Revisions in estimates of cash flows	(303)	(192)	(19)	(15)	(4)	4	(97)	—
Balance at December 31, 2017	10,175	3,610	5,414	4,673	742	84	781	15
Accretion expense ^(a)	427	179	225	196	29	4	29	1
Liabilities settled ^(b)	(638)	(281)	(272)	(227)	(45)	(5)	(79)	—
Liabilities incurred in the current year ^(c)	39	8	5	—	5	—	25	—
Revisions in estimates of cash flows ^(d)	464	433	39	178	(140)	10	(34)	3
Balance at December 31, 2018	\$ 10,467	\$ 3,949	\$ 5,411	\$ 4,820	\$ 591	\$ 93	\$ 722	\$ 19

- (a) Substantially all accretion expense for the years ended December 31, 2018, and 2017 relates to Duke Energy's regulated operations and has been deferred in accordance with regulatory accounting treatment.
(b) Amounts primarily relate to ash impoundment closures and nuclear decommissioning of Crystal River Unit 3.
(c) Amounts primarily relate to AROs recorded as a result of state agency closure requirements at Duke Energy Indiana.
(d) Amounts primarily relate to increases in groundwater monitoring estimates for closure of ash impoundments and an increase for nuclear decommissioning costs at Duke Energy Carolinas' nuclear sites compared to original estimates, partially offset by a reduction for nuclear decommissioning at Crystal River Unit 3 compared to original estimates and modifications to the timing of expected cash flows for coal ash AROs.

10. PROPERTY, PLANT AND EQUIPMENT

The following tables summarize the property, plant and equipment for Duke Energy and its subsidiary registrants.

(in millions)	Estimated Useful Life (Years)	December 31, 2018							
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 2,072	\$ 472	\$ 868	\$ 445	\$ 423	\$ 136	\$ 116	\$ 448
Plant – Regulated									
Electric generation, distribution and transmission	15-100	100,706	38,468	42,760	26,147	16,613	5,182	14,292	—
Natural gas transmission and distribution	12-80	8,808	—	—	—	—	2,719	—	6,089
Other buildings and improvements	24-90	1,966	681	636	295	341	270	253	126
Plant – Nonregulated									
Electric generation, distribution and transmission	5-30	4,410	—	—	—	—	—	—	—
Other buildings and improvements	25-35	494	—	—	—	—	—	—	—
Nuclear fuel		3,460	1,898	1,562	1,562	—	—	—	—
Equipment	3-55	2,141	467	565	399	166	384	178	141
Construction in process		5,726	1,678	2,515	1,659	856	412	325	382
Other	3-40	4,675	1,077	1,354	952	393	257	279	300
Total property, plant and equipment^{(a)(d)}		134,458	44,741	50,260	31,459	18,792	9,360	15,443	7,486
Total accumulated depreciation – regulated^{(b)(c)(d)}		(41,079)	(15,496)	(16,398)	(11,423)	(4,968)	(2,717)	(4,914)	(1,575)
Total accumulated depreciation – nonregulated^{(c)(d)}		(2,047)	—	—	—	—	—	—	—
Generation facilities to be retired, net		362	—	362	362	—	—	—	—
Total net property, plant and equipment		\$ 91,694	\$ 29,245	\$ 34,224	\$ 20,398	\$ 13,824	\$ 6,643	\$ 10,529	\$ 5,911

- (a) Includes capitalized leases of \$1,237 million, \$135 million, \$257 million, \$137 million, \$120 million, \$73 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$131 million, \$14 million and \$117 million, respectively, of accumulated amortization of capitalized leases.
(b) Includes \$1,947 million, \$1,087 million, \$860 million and \$860 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.
(c) Includes accumulated amortization of capitalized leases of \$61 million, \$12 million, \$20 million and \$10 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.
(d) Includes gross property, plant and equipment cost of consolidated VIEs of \$4,007 million and accumulated depreciation of consolidated VIEs of \$698 million at Duke Energy.

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(in millions)	Estimated Useful Life (Years)	December 31, 2017							
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 1,559	\$ 467	\$ 767	\$ 424	\$ 343	\$ 134	\$ 111	\$ 41
Plant – Regulated									
Electric generation, distribution and transmission	8-100	93,687	35,657	39,419	24,502	14,917	4,870	13,741	—
Natural gas transmission and distribution	12-80	8,292	—	—	—	—	2,559	—	5,733
Other buildings and improvements	15-100	1,936	647	652	316	336	243	240	154
Plant – Nonregulated									
Electric generation, distribution and transmission ^(a)	5-30	4,273	—	—	—	—	—	—	—
Other buildings and improvements	25-35	465	—	—	—	—	—	—	—
Nuclear fuel		3,680	2,120	1,560	1,560	—	—	—	—
Equipment	3-55	2,122	402	555	416	139	348	169	266
Construction in process		6,995	2,614	3,059	1,434	1,625	350	416	231
Other	3-40	4,498	1,032	1,311	931	370	228	271	300
Total property, plant and equipment ^{(b)(c)}		127,507	42,939	47,323	29,583	17,730	8,732	14,948	6,725
Total accumulated depreciation – regulated ^{(c)(d)(e)}		(39,742)	(15,063)	(15,857)	(10,903)	(4,947)	(2,691)	(4,662)	(1,479)
Total accumulated depreciation – nonregulated ^{(d)(e)}		(1,795)	—	—	—	—	—	—	—
Generation facilities to be retired, net		421	—	421	421	—	—	—	—
Total net property, plant and equipment		\$ 86,391	\$ 27,876	\$ 31,887	\$ 19,101	\$ 12,783	\$ 6,041	\$ 10,286	\$ 5,246

- (a) Includes a pretax impairment charge of \$58 million on a wholly owned non-contracted wind project. See discussion below.
(b) Includes capitalized leases of \$1,294 million, \$81 million, \$272 million, \$139 million, \$133 million, \$80 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$114 million, \$11 million and \$103 million, respectively, of accumulated amortization of capitalized leases.
(c) Includes \$2,113 million, \$1,283 million, \$831 million and \$831 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.
(d) Includes accumulated amortization of capitalized leases of \$57 million, \$11 million, \$21 million and \$9 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.
(e) Includes gross property, plant and equipment cost of consolidated VIEs of \$3,941 million and accumulated depreciation of consolidated VIEs of \$598 million at Duke Energy.

During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset; see Note 11 for additional information. The charge represents the excess carrying value over the estimated fair value

of the project, which was based on a Level 3 Fair Value measurement that was determined from the income approach using discounted cash flows. The impairment was primarily due to the non-contracted wind project being located in a market that has experienced continued declining market pricing during 2017 and declining long-term forecasted energy and capacity prices, driven by low natural gas prices, additional renewable generation placed in service and lack of significant load growth.

The following tables present capitalized interest, which includes the debt component of AFUDC.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$161	\$128	\$100
Duke Energy Carolinas	35	45	38
Progress Energy	51	45	31
Duke Energy Progress	26	21	17
Duke Energy Florida	25	24	14
Duke Energy Ohio	17	10	8
Duke Energy Indiana	27	9	7

(in millions)	Years Ended December 31,		Two Months Ended	Year Ended
	2018	2017	December 31, 2016	October 31, 2016
Piedmont	\$ 17	\$ 12	\$ 2	\$ 12

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Operating Leases

Duke Energy's Commercial Renewables segment operates various renewable energy projects and sells the generated output to utilities, electric cooperatives, municipalities and commercial and industrial customers through long-term contracts. In certain situations, these long-term contracts and the associated renewable energy projects qualify as operating leases. Rental income from these leases is accounted for as Operating Revenues in the Consolidated Statements of Operations. There are no minimum lease payments as all payments are contingent based on actual electricity generated by the renewable energy projects. Contingent lease payments were \$268 million, \$262 million, and \$216 million for the years ended December 31, 2018, 2017 and 2016. As of December 31, 2018, renewable energy projects owned by Duke Energy and accounted for as operating leases had a cost basis of \$3,358 million and accumulated depreciation of \$602 million. These assets are principally classified as nonregulated electric generation and transmission assets.

Duke Energy Ohio

Duke Energy Ohio's Goodwill balance of \$920 million, allocated \$596 million to Electric Utilities and Infrastructure and \$324 million to Gas Utilities and Infrastructure, is presented net of accumulated impairment charges of \$216 million on the Consolidated Balance Sheets at December 31, 2018, and 2017.

Progress Energy

Progress Energy's Goodwill is included in the Electric Utilities and Infrastructure segment and there are no accumulated impairment charges.

Piedmont

Piedmont's Goodwill is included in the Gas Utilities and Infrastructure segment and there are no accumulated impairment charges.

11. GOODWILL AND INTANGIBLE ASSETS

GOODWILL

Duke Energy

The following table presents goodwill by reportable segment for Duke Energy included on Duke Energy's Consolidated Balance Sheets at December 31, 2018, and 2017.

(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total
Goodwill Balance at December 31, 2017	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges ^(a)	—	—	(29)	(29)
Goodwill balance at December 31, 2017, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ 93	\$ 19,396
Goodwill Balance at December 31, 2018	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges ^(a)	\$ —	\$ —	\$ (122)	\$ (122)
Goodwill balance at December 31, 2018, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ —	\$ 19,303

(a) Duke Energy evaluated the recoverability of goodwill during 2017 and recorded impairment charges of \$29 million related to the Energy Management Solutions reporting unit within the Commercial Renewables segment. The fair value of the reporting unit was determined based on the market approach. See "Goodwill Impairment Testing" below for the results of the 2018 goodwill impairment test.

Goodwill Impairment Testing

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont are required to perform an annual goodwill impairment test as of the same date each year and, accordingly, perform their annual impairment testing of goodwill as of August 31. Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont update their test between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value.

In the third quarter of 2018, based on the results of the annual quantitative goodwill impairment test, management determined that the fair value of the Commercial Renewables reporting unit was below its respective carrying value, including goodwill. Determination of the Commercial Renewables reporting unit fair value was based on an income approach, which estimates the fair value based on discounted future cash flows. The fair value of the Commercial Renewables reporting unit is impacted by several factors, including forecasted tax credit utilization, the cost of capital, current and forecasted solar and wind volumes, and legislative developments. Certain assumptions used in determining the fair value of the reporting unit in the 2018 impairment test changed from those used in the 2017 annual impairment test including the cost of capital as a result of rising interest rates and the timing of tax credit utilization due to tax reform and IRS clarification on bonus depreciation in August 2018. Based on the quantitative impairment test, the estimated fair value of the Commercial Renewables reporting unit was below its carrying value by an immaterial amount but still more than the goodwill balance assigned to the reporting unit. As such, the entire remaining goodwill balance of approximately \$93 million was impaired during the third quarter of 2018.

The fair value of all other reporting units for Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont exceeded their respective carrying values at the date of the annual impairment analysis.

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Intangible Assets

The following tables show the carrying amount and accumulated amortization of intangible assets included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets of the Duke Energy Registrants at December 31, 2018, and 2017.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 18	\$ —	\$ 5	\$ 2	\$ 3	\$ —	\$ 12	\$ —
Renewable energy certificates	168	46	120	120	—	2	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	84	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	300	46	125	122	3	2	36	3
Accumulated amortization – natural gas, coal and power contracts	(20)	—	—	—	—	—	(20)	—
Accumulated amortization – renewable operating and development projects	(29)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(54)	—	—	—	—	—	(20)	(3)
Total intangible assets, net	\$ 246	\$ 46	\$ 125	\$ 122	\$ 3	\$ 2	\$ 16	\$ —

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 19	\$ 1	\$ 5	\$ 2	\$ 3	\$ —	\$ 13	\$ —
Renewable energy certificates	148	38	107	107	—	3	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	79	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	276	39	112	109	3	3	37	3
Accumulated amortization – natural gas, coal and power contracts	(19)	—	—	—	—	—	(19)	—
Accumulated amortization – renewable operating and development projects	(22)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(46)	—	—	—	—	—	(19)	(3)
Total intangible assets, net	\$ 230	\$ 39	\$ 112	\$ 109	\$ 3	\$ 3	\$ 18	\$ —

During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset that was recorded in 2007 when the project was acquired. Prior to the impairment, the gross amount of the intangible asset was \$18 million and the accumulated amortization was \$7 million. The intangible asset was fully impaired. See Note 10 for additional information.

Amortization Expense

Amortization expense amounts for natural gas, coal and power contracts, renewable operating projects and other intangible assets are immaterial for the years ended December 31, 2018, 2017 and 2016, and are expected to be immaterial for the next five years as of December 31, 2018.

12. INVESTMENTS IN UNCONSOLIDATED AFFILIATES

EQUITY METHOD INVESTMENTS

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method.

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The following table presents Duke Energy's investments in unconsolidated affiliates accounted for under the equity method, as well as the respective equity in earnings, by segment.

(in millions)	Years Ended December 31,					
	2018		2017		2016	
	Investments	Equity in earnings	Investments	Equity in earnings	Investments	Equity in earnings
Electric Utilities and Infrastructure	\$ 97	\$ 6	\$ 89	\$ 5	\$ 93	\$ 5
Gas Utilities and Infrastructure	1,003	27	763	62	566	19
Commercial Renewables	201	(1)	190	(5)	185	(82)
Other	108	51	133	57	81	43
Total	\$1,409	\$ 83	\$ 1,175	\$ 119	\$ 925	\$ (15)

During the years ended December 31, 2018, 2017 and 2016, Duke Energy received distributions from equity investments of \$108 million, \$13 million and \$31 million, respectively, which are included in Other assets within Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows. During the years ended December 31, 2018, and 2017, Duke Energy received distributions from equity investments of \$137 million and \$281 million, respectively, which are included in Return of investment capital within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

During the years ended December 31, 2018, and 2017, and the two months ended December 31, 2016, and the year ended October 31, 2016, Piedmont received distributions from equity investments of \$1 million, \$4 million, \$1 million and \$26 million, respectively, which are included in Other assets within Cash Flows from Operating Activities and \$3 million, \$2 million, \$1 million and \$18 million, respectively, which are included within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

Significant investments in affiliates accounted for under the equity method are discussed below.

Electric Utilities and Infrastructure

Duke Energy owns a 50 percent interest in DATC and in Pioneer, which build, own and operate electric transmission facilities in North America.

Gas Utilities and Infrastructure

The table below outlines Duke Energy's ownership interests in natural gas pipeline companies and natural gas storage facilities.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31, 2018	December 31, 2017
Pipeline Investments			
Atlantic Coast Pipeline, LLC ^(a)	47%	\$ 797	\$ 397
Sabal Trail Transmission, LLC	7.5%	112 ^(d)	219
Constitution Pipeline, LLC ^(a)	24%	25	81
Cardinal Pipeline Company, LLC ^(b)	21.49%	10	11
Storage Facilities			
Pine Needle LNG Company, LLC ^(b)	45%	13	13
Hardy Storage Company, LLC ^(b)	50%	46	42
Total Investments^(c)		\$ 1,003	\$ 763

- (a) During the year ended December 31, 2017, Piedmont transferred its share of ownership interest in ACP and Constitution to a wholly owned subsidiary of Duke Energy at book value.
 (b) Piedmont owns the Cardinal, Pine Needle and Hardy Storage investments.
 (c) Duke Energy includes purchase accounting adjustments related to Piedmont.
 (d) Sabal Trail returned capital of \$112 million during the year ended December 31, 2018.

In October 2017, Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. See Note 7 for additional information. As a result of the financing, ACP returned capital of \$265 million to Duke Energy.

Piedmont sold its 15 percent membership interest in SouthStar on October 3, 2016, for \$160 million resulting in an after tax gain of \$81 million during the year ended October 31, 2016. Piedmont's Equity in Earnings in SouthStar was \$19 million for the year ended October 31, 2016.

During the fourth quarter of 2018, ACP received several adverse court rulings as described in Note 4. As a result, Duke Energy evaluated this investment for impairment and determined that fair value approximated carrying value and therefore no impairment was necessary.

For regulatory matters and other information on the ACP, Sabal Trail and Constitution investments, see Notes 4 and 17.

Commercial Renewables

Duke Energy has a 50 percent interest in DS Cornerstone, LLC, which owns wind farm projects in the U.S.

Impairment of Equity Method Investments

During the year ended December 31, 2018, Duke Energy recorded an OTTI of the Constitution investment of \$55 million within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Operations. The charge represents the excess carrying value over the estimated fair value of the project, which was based on a Level 3 Fair Value measurement that was determined from the income approach using discounted cash flows. The impairment was primarily due to the recent actions taken by the courts and regulators to uphold the NYSDEC's denial of the certification and uncertainty associated with the remaining legal and regulatory challenges. For additional information on the Constitution investment, see Note 4.

During the year ended December 31, 2016, Duke Energy recorded an OTTI of certain wind project investments. The \$71 million pretax impairment was recorded within Equity in earnings (losses) of unconsolidated affiliates on Duke Energy's Consolidated Statements of Operations. The other-than-temporary decline in value of these investments was primarily attributable to a sustained decline in market pricing where the wind investments are located, projected net losses for the projects and a reduction in the projected cash distribution to the class of investment owned by Duke Energy.

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Other

Duke Energy owns a 17.5 percent indirect interest in NMC, which owns and operates a methanol and MTBE business in Jubail, Saudi Arabia. Duke

Energy's economic ownership interest decreased from 25 to 17.5 percent with the successful startup of NMC's polyacetal production facility in 2017. Duke Energy retains 25 percent of the board representation and voting rights of NMC.

13. RELATED PARTY TRANSACTIONS

The Subsidiary Registrants engage in related party transactions in accordance with the applicable state and federal commission regulations. Refer to the Consolidated Balance Sheets of the Subsidiary Registrants for balances due to or due from related parties. Material amounts related to transactions with related parties included in the Consolidated Statements of Operations and Comprehensive Income are presented in the following table.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy Carolinas			
Corporate governance and shared service expenses ^(a)	\$ 985	\$ 858	\$ 831
Indemnification coverages ^(b)	22	23	22
JDA revenue ^(c)	84	49	38
JDA expense ^(c)	207	145	156
Intercompany natural gas purchases ^(d)	15	9	2
Progress Energy			
Corporate governance and shared service expenses ^(a)	\$ 906	\$ 736	\$ 710
Indemnification coverages ^(b)	34	38	35
JDA revenue ^(c)	207	145	156
JDA expense ^(c)	84	49	38
Intercompany natural gas purchases ^(d)	78	77	19
Duke Energy Progress			
Corporate governance and shared service expenses ^(a)	\$ 577	\$ 438	\$ 397
Indemnification coverages ^(b)	13	15	14
JDA revenue ^(c)	207	145	156
JDA expense ^(c)	84	49	38
Intercompany natural gas purchases ^(d)	78	77	19
Duke Energy Florida			
Corporate governance and shared service expenses ^(a)	\$ 329	\$ 298	\$ 313
Indemnification coverages ^(b)	21	23	21
Duke Energy Ohio			
Corporate governance and shared service expenses ^(a)	\$ 374	\$ 363	\$ 356
Indemnification coverages ^(b)	5	5	5
Duke Energy Indiana			
Corporate governance and shared service expenses ^(a)	\$ 405	\$ 370	\$ 366
Indemnification coverages ^(b)	7	8	8
Piedmont			
Corporate governance and shared service expenses ^(a)	\$ 170	\$ 50	
Indemnification coverages ^(b)	2	2	
Intercompany natural gas sales ^(d)	93	86	
Natural gas storage and transportation costs ^(d)	25	25	

- (a) The Subsidiary Registrants are charged their proportionate share of corporate governance and other shared services costs, primarily related to human resources, employee benefits, information technology, legal and accounting fees, as well as other third-party costs. These amounts are primarily recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.
- (b) The Subsidiary Registrants incur expenses related to certain indemnification coverages through Bison, Duke Energy's wholly owned captive insurance subsidiary. These expenses are recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.

- (c) Duke Energy Carolinas and Duke Energy Progress participate in a JDA, which allows the collective dispatch of power plants between the service territories to reduce customer rates. Revenues from the sale of power and expenses from the purchase of power pursuant to the JDA are recorded in Operating Revenues and Fuel used in electric generation and purchased power, respectively, on the Consolidated Statements of Operations and Comprehensive Income.
- (d) Piedmont provides long-term natural gas delivery service to certain Duke Energy Carolinas and Duke Energy Progress natural gas-fired generation facilities. Piedmont records the sales in Operating Revenues, and Duke Energy Carolinas and Duke Energy Progress record the related purchases as a component of Fuel used in electric generation and purchased power on their respective Consolidated Statements of Operations and Comprehensive Income. These intercompany revenues and expenses are eliminated in consolidation. For the two months ended December 31, 2016, and for sales made subsequent to the acquisition for the year ended October 31, 2016, Piedmont recorded \$14 million and \$7 million, respectively, of natural gas sales with Duke Energy. For sales made prior to the acquisition for the year ended October 31, 2016, Piedmont recorded \$74 million of natural gas sales with Duke Energy.
- (e) Piedmont has related party transactions as a customer of its equity method investments in Pine Needle, Harco Storage, and Cardinal natural gas storage and transportation facilities. These expenses are included in Cost of natural gas on Piedmont's Consolidated Statements of Operations and Comprehensive Income. For the two months ended December 31, 2016, and for the year ended October 31, 2016, Piedmont recorded \$6 million and \$29 million, respectively, of natural gas storage and transportation costs.

In addition to the amounts presented above, the Subsidiary Registrants have other affiliate transactions, including rental of office space, participation in a money pool arrangement, other operational transactions and their proportionate share of certain charged expenses. See Note 6 for more information regarding money pool. These transactions of the Subsidiary Registrants are incurred in the ordinary course of business and are eliminated in consolidation.

As discussed in Note 17, certain trade receivables have been sold by Duke Energy Ohio and Duke Energy Indiana to CRC, an affiliate formed by a subsidiary of Duke Energy. The proceeds obtained from the sales of receivables are largely cash but do include a subordinated note from CRC for a portion of the purchase price.

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Intercompany Income Taxes

Duke Energy and the Subsidiary Registrants file a consolidated federal income tax return and other state and jurisdictional returns. The Subsidiary Registrants have a tax sharing agreement with Duke Energy for the allocation of consolidated tax liabilities and benefits. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. The following table includes the balance of intercompany income tax receivables and payables for the Subsidiary Registrants.

(in millions)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
December 31, 2018							
Intercompany income tax receivable	\$ 52	\$ 47	\$ 29	\$ —	\$ —	\$ 8	\$ —
Intercompany income tax payable	—	—	—	16	3	—	45
December 31, 2017							
Intercompany income tax receivable	\$ —	\$ 168	\$ —	\$ 44	\$ 22	\$ —	\$ 7
Intercompany income tax payable	44	—	21	—	—	35	—

14. DERIVATIVES AND HEDGING

The Duke Energy Registrants use commodity and interest rate contracts to manage commodity price risk and interest rate risk. The primary use of commodity derivatives is to hedge the generation portfolio against changes in the prices of electricity and natural gas. Piedmont enters into natural gas supply contracts to provide diversification, reliability and natural gas cost benefits to its customers. Interest rate swaps are used to manage interest rate risk associated with borrowings.

All derivative instruments not identified as NPNS are recorded at fair value as assets or liabilities on the Consolidated Balance Sheets. Cash collateral related to derivative instruments executed under master netting arrangements is offset against the collateralized derivatives on the Consolidated Balance Sheets. The cash impacts of settled derivatives are recorded as operating activities on the Consolidated Statements of Cash Flows.

INTEREST RATE RISK

The Duke Energy Registrants are exposed to changes in interest rates as a result of their issuance or anticipated issuance of variable-rate and fixed-rate debt and commercial paper. Interest rate risk is managed by limiting variable-rate exposures to a percentage of total debt and by monitoring changes in interest rates. To manage risk associated with changes in interest rates, the Duke Energy Registrants may enter into interest rate swaps, U.S. Treasury lock agreements and other financial contracts. In anticipation of certain fixed-rate debt issuances, a series of forward-starting interest rate swaps or Treasury locks may be executed to lock in components of current market interest rates. These instruments are later terminated prior to or upon the issuance of the corresponding debt.

Cash Flow Hedges

For a derivative designated as hedging the exposure to variable cash flows of a future transaction, referred to as a cash flow hedge, the effective portion of the derivative's gain or loss is initially reported as a component

of other comprehensive income and subsequently reclassified into earnings once the future transaction impacts earnings. Amounts for interest rate contracts are reclassified to earnings as interest expense over the term of the related debt. Gains and losses reclassified out of AOCI for the years ended December 31, 2018, 2017 and 2016 were not material. Duke Energy's interest rate derivatives designated as hedges include interest rate swaps used to hedge existing debt within the Commercial Renewables business.

Undesignated Contracts

Undesignated contracts primarily include contracts not designated as a hedge because they are accounted for under regulatory accounting or contracts that do not qualify for hedge accounting.

Duke Energy's interest rate swaps for its regulated operations employ regulatory accounting. With regulatory accounting, the mark-to-market gains or losses on the swaps are deferred as regulatory liabilities or regulatory assets, respectively. Regulatory assets and liabilities are amortized consistent with the treatment of the related costs in the ratemaking process. The accrual of interest on the swaps is recorded as Interest Expense on the Duke Energy Registrant's Consolidated Statements of Operations and Comprehensive Income.

In August 2016, Duke Energy unwound \$1.4 billion of forward-starting interest rate swaps associated with the Piedmont acquisition financing. The swaps were considered undesignated as they did not qualify for hedge accounting. Losses on the swaps of \$190 million are included within Interest Expense on the Consolidated Statements of Operations for the year ended December 31, 2016. See Note 2 for additional information related to the Piedmont acquisition.

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Combined Notes to Consolidated Financial Statements – (Continued)

The following tables show notional amounts of outstanding derivatives related to interest rate risk.

(in millions)	December 31, 2018					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges	\$ 923	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	1,721	300	1,200	650	550	27
Total notional amount^(a)	\$ 2,644	\$ 300	\$ 1,200	\$ 650	\$ 550	\$ 27

(in millions)	December 31, 2017					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges ^(a)	\$ 660	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	927	400	500	250	250	27
Total notional amount	\$ 1,587	\$ 400	\$ 500	\$ 250	\$ 250	\$ 27

(a) Duke Energy includes amounts related to consolidated VIEs of \$422 million in cash flow hedges and \$194 million in undesignated contracts as of December 31, 2018, and \$660 million in cash flow hedges as of December 31, 2017.

COMMODITY PRICE RISK

The Duke Energy Registrants are exposed to the impact of changes in the prices of electricity purchased and sold in bulk power markets and coal and natural gas purchases, including Piedmont's natural gas supply contracts. Exposure to commodity price risk is influenced by a number of factors including the term of contracts, the liquidity of markets and delivery locations. For the Subsidiary Registrants, bulk power electricity and coal and natural gas

purchases flow through fuel adjustment clauses, formula based contracts or other cost sharing mechanisms. Differences between the costs included in rates and the incurred costs, including undesignated derivative contracts, are largely deferred as regulatory assets or regulatory liabilities. Piedmont policies allow for the use of financial instruments to hedge commodity price risks. The strategy and objective of these hedging programs are to use the financial instruments to reduce gas cost volatility for customers.

Volumes

The tables below include volumes of outstanding commodity derivatives. Amounts disclosed represent the absolute value of notional volumes of commodity contracts excluding NPNS. The Duke Energy Registrants have netted contractual amounts where offsetting purchase and sale contracts exist with identical delivery locations and times of delivery. Where all commodity positions are perfectly offset, no quantities are shown.

	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electricity (gigawatt-hours)	15,286	—	—	—	—	1,786	13,500	—
Natural gas (millions of dekatherms)	739	121	169	166	3	—	1	448

	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana	Piedmont	
Electricity (gigawatt-hours)	34	—	—	—	—	34	—	
Natural gas (millions of dekatherms)	770	105	183	133	50	2	480	

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LOCATION AND FAIR VALUE OF DERIVATIVE ASSETS AND LIABILITIES RECOGNIZED IN THE CONSOLIDATED BALANCE SHEETS

The following tables show the fair value and balance sheet location of derivative instruments. Although derivatives subject to master netting arrangements are netted on the Consolidated Balance Sheets, the fair values presented below are shown gross and cash collateral on the derivatives has not been netted against the fair values shown.

Derivative Assets	December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 35	\$ 2	\$ 2	\$ 2	\$ —	\$ 6	\$ 23	\$ 3
Noncurrent	4	1	2	2	—	—	—	—
Total Derivative Assets – Commodity Contracts	\$ 39	\$ 3	\$ 4	\$ 4	\$ —	\$ 6	\$ 23	\$ 3
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	3	—	—	—	—	—	—	—
<i>Not Designated as Hedging Instruments</i>								
Current	2	—	—	—	—	—	—	—
Noncurrent	12	—	—	—	—	—	—	—
Total Derivative Assets – Interest Rate Contracts	\$ 18	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Total Derivative Assets	\$ 57	\$ 3	\$ 4	\$ 4	\$ —	\$ 6	\$ 23	\$ 3

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Derivative Liabilities		December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Commodity Contracts									
<i>Not Designated as Hedging Instruments</i>									
Current	\$ 33	\$ 14	\$ 10	\$ 5	\$ 6	\$ —	\$ —	\$ 8	
Noncurrent	158	10	15	6	—	—	—	133	
Total Derivative Liabilities – Commodity Contracts	\$ 191	\$ 24	\$ 25	\$ 11	\$ 6	\$ —	\$ —	\$ 141	
Interest Rate Contracts									
<i>Designated as Hedging Instruments</i>									
Current	\$ 12	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	
Noncurrent	6	—	—	—	—	—	—	—	
<i>Not Designated as Hedging Instruments</i>									
Current	23	9	13	11	2	1	—	—	
Noncurrent	10	—	6	5	1	4	—	—	
Total Derivative Liabilities – Interest Rate Contracts	\$ 51	\$ 9	\$ 19	\$ 16	\$ 3	\$ 5	\$ —	\$ —	
Total Derivative Liabilities	\$ 242	\$ 33	\$ 44	\$ 27	\$ 9	\$ 5	\$ —	\$ 141	
Derivative Assets		December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Commodity Contracts									
<i>Not Designated as Hedging Instruments</i>									
Current	\$ 34	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2	
Noncurrent	1	—	1	1	—	—	—	—	
Total Derivative Assets – Commodity Contracts	\$ 35	\$ 2	\$ 3	\$ 2	\$ 1	\$ 1	\$ 27	\$ 2	
Interest Rate Contracts									
<i>Designated as Hedging Instruments</i>									
Current	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	
Noncurrent	15	—	—	—	—	—	—	—	
Total Derivative Assets – Interest Rate Contracts	\$ 16	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	
Total Derivative Assets	\$ 51	\$ 2	\$ 3	\$ 2	\$ 1	\$ 1	\$ 27	\$ 2	
Derivative Liabilities		December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Commodity Contracts									
<i>Not Designated as Hedging Instruments</i>									
Current	\$ 36	\$ 6	\$ 18	\$ 8	\$ 10	\$ —	\$ —	\$ 11	
Noncurrent	146	4	10	4	—	—	—	131	
Total Derivative Liabilities – Commodity Contracts	\$ 182	\$ 10	\$ 28	\$ 12	\$ 10	\$ —	\$ —	\$ 142	
Interest Rate Contracts									
<i>Designated as Hedging Instruments</i>									
Current	\$ 29	\$ 25	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	
Noncurrent	6	—	—	—	—	—	—	—	
<i>Not Designated as Hedging Instruments</i>									
Current	1	—	1	—	—	1	—	—	
Noncurrent	12	—	7	6	2	4	—	—	
Total Derivative Liabilities – Interest Rate Contracts	\$ 48	\$ 25	\$ 8	\$ 6	\$ 2	\$ 5	\$ —	\$ —	
Total Derivative Liabilities	\$ 230	\$ 35	\$ 36	\$ 18	\$ 12	\$ 5	\$ —	\$ 142	

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OFFSETTING ASSETS AND LIABILITIES

The following tables present the line items on the Consolidated Balance Sheets where derivatives are reported. Substantially all of Duke Energy's outstanding derivative contracts are subject to enforceable master netting arrangements. The gross amounts offset in the tables below show the effect of these netting arrangements on financial position and include collateral posted to offset the net position. The amounts shown are calculated by counterparty. Accounts receivable or accounts payable may also be available to offset exposures in the event of bankruptcy. These amounts are not included in the tables below.

Derivative Assets		December 31, 2018						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 38	\$ 2	\$ 2	\$ 2	\$ —	\$ 6	\$ 23	\$ 3
Gross amounts offset	(3)	(2)	(2)	(2)	—	—	—	—
Net amounts presented in Current Assets: Other	\$ 35	\$ —	\$ —	\$ —	\$ —	\$ 6	\$ 23	\$ 3
Noncurrent								
Gross amounts recognized	\$ 19	\$ 1	\$ 2	\$ 2	\$ —	\$ —	\$ —	\$ —
Gross amounts offset	(3)	(1)	(2)	(2)	—	—	—	—
Net amounts presented in Other Noncurrent Assets: Other	\$ 16	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

Derivative Liabilities		December 31, 2018						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 68	\$ 23	\$ 23	\$ 16	\$ 8	\$ 1	\$ —	\$ 8
Gross amounts offset	(4)	(2)	(2)	(2)	—	—	—	—
Net amounts presented in Current Liabilities: Other	\$ 64	\$ 21	\$ 21	\$ 14	\$ 8	\$ 1	\$ —	\$ 8
Noncurrent								
Gross amounts recognized	\$ 174	\$ 10	\$ 21	\$ 11	\$ 1	\$ 4	\$ —	\$ 133
Gross amounts offset	(3)	(1)	(2)	(2)	—	—	—	—
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 171	\$ 9	\$ 19	\$ 9	\$ 1	\$ 4	\$ —	\$ 133

Derivative Assets		December 31, 2017						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 35	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2
Gross amounts offset	—	—	—	—	—	—	—	—
Net amounts presented in Current Assets: Other	\$ 35	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2
Noncurrent								
Gross amounts recognized	\$ 16	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —
Gross amounts offset	—	—	—	—	—	—	—	—
Net amounts presented in Other Noncurrent Assets: Other	\$ 16	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —

Derivative Liabilities		December 31, 2017						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 66	\$ 31	\$ 19	\$ 8	\$ 10	\$ 1	\$ —	\$ 11
Gross amounts offset	(3)	(2)	(2)	(2)	—	—	—	—
Net amounts presented in Current Liabilities: Other	\$ 63	\$ 29	\$ 17	\$ 6	\$ 10	\$ 1	\$ —	\$ 11
Noncurrent								
Gross amounts recognized	\$ 164	\$ 4	\$ 17	\$ 10	\$ 2	\$ 4	\$ —	\$ 131
Gross amounts offset	(1)	—	(1)	(1)	—	—	—	—
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 163	\$ 4	\$ 16	\$ 9	\$ 2	\$ 4	\$ —	\$ 131

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OBJECTIVE CREDIT CONTINGENT FEATURES

Certain derivative contracts contain objective credit contingent features. These features include the requirement to post cash collateral or letters of credit if specific events occur, such as a credit rating downgrade below investment grade. The following tables show information with respect to derivative contracts that are in a net liability position and contain objective credit-risk-related payment provisions.

(in millions)	December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Aggregate fair value of derivatives in a net liability position	\$ 44	\$ 19	\$ 25	\$ 25	\$ —
Fair value of collateral already posted	—	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	44	19	25	25	—

(in millions)	December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Aggregate fair value of derivatives in a net liability position	\$ 59	\$ 35	\$ 25	\$ 15	\$ 10
Fair value of collateral already posted	—	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	59	35	25	15	10

The Duke Energy Registrants have elected to offset cash collateral and fair values of derivatives. For amounts to be netted, the derivative and cash collateral must be executed with the same counterparty under the same master netting arrangement.

15. INVESTMENTS IN DEBT AND EQUITY SECURITIES

Duke Energy's investments in debt and equity securities are primarily comprised of investments held in (i) the NDTF at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, (ii) the grantor trusts at Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana related to OPEB plans and (iii) Bison. The Duke Energy Registrants classify investments in debt securities as AFS and investments in equity securities as FV-NI.

For investments in debt securities classified as AFS, the unrealized gains and losses are included in other comprehensive income until realized, at which time, they are reported through net income. For investments in equity securities classified as FV-NI, both realized and unrealized gains and losses are reported through net income. Substantially all of Duke Energy's investments in debt and equity securities qualify for regulatory accounting, and accordingly, all associated realized and unrealized gains and losses on these investments are deferred as a regulatory asset or liability.

Duke Energy classifies the majority of investments in debt and equity securities as long term, unless otherwise noted.

Investment Trusts

The investments within the NDTF and the Investment Trusts are managed by independent investment managers with discretion to buy, sell and invest pursuant to the objectives set forth by the trust agreements. The Duke Energy Registrants have limited oversight of the day-to-day management of these investments. As a result, the ability to hold investments in unrealized loss positions is outside the control of the Duke Energy Registrants. Accordingly, all unrealized losses associated with debt securities within the Investment Trusts are considered OTTI and are recognized immediately and deferred to regulatory accounts where appropriate.

Other AFS Securities

Unrealized gains and losses on all other AFS securities are included in other comprehensive income until realized, unless it is determined the carrying value of an investment is other-than-temporarily impaired. The Duke Energy Registrants analyze all investment holdings each reporting period to determine whether a decline in fair value should be considered other-than-temporary. If an OTTI exists, the unrealized credit loss is included in earnings. There were no material credit losses as of December 31, 2018, and 2017.

Other Investments amounts are recorded in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 88	\$ —	\$ —	\$ 115
Equity securities	2,402	95	4,475	2,805	27	4,914
Corporate debt securities	4	13	566	17	2	570
Municipal bonds	1	4	353	4	3	344
U.S. government bonds	14	12	1,076	11	7	1,027
Other debt securities	—	2	148	—	1	118
Total NDTF Investments	\$ 2,421	\$ 126	\$ 6,706	\$ 2,837	\$ 40	\$ 7,088
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 22	\$ —	\$ —	\$ 15
Equity securities	36	1	99	59	—	123
Corporate debt securities	—	2	60	1	—	57
Municipal bonds	—	1	85	2	1	83
U.S. government bonds	1	—	45	—	—	41
Other debt securities	—	1	58	—	1	44
Total Other Investments	\$ 37	\$ 5	\$ 369	\$ 62	\$ 2	\$ 363
Total Investments	\$ 2,458	\$ 131	\$ 7,075	\$ 2,899	\$ 42	\$ 7,451

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 98
Due after one through five years	501
Due after five through 10 years	570
Due after 10 years	1,222
Total	\$ 2,391

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31, 2018
FV-NI:	
Realized gains	\$ 168
Realized losses	126
AFS:	
Realized gains	22
Realized losses	51

(in millions)	Years Ended December 31,	
	2017	2016
Realized gains	\$ 202	\$ 246
Realized losses	160	187

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DUKE ENERGY CAROLINAS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 29	\$ —	\$ —	\$ 32
Equity securities	1,309	54	2,484	1,531	12	2,692
Corporate debt securities	2	9	341	9	2	359
Municipal bonds	—	1	81	—	1	60
U.S. government bonds	5	8	475	3	4	503
Other debt securities	—	2	143	—	1	112
Total NDTF Investments	\$ 1,316	\$ 74	\$ 3,553	\$ 1,543	\$ 20	\$ 3,758

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 6
Due after one through five years	142
Due after five through 10 years	303
Due after 10 years	589
Total	\$ 1,040

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31, 2018
FV-NI:	
Realized gains	\$ 89
Realized losses	73
AFS:	
Realized gains	19
Realized losses	35

(in millions)	Years Ended December 31,	
	2017	2016
Realized gains	\$ 135	\$ 157
Realized losses	103	121

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PROGRESS ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 59	\$ —	\$ —	\$ 83
Equity securities	1,093	41	1,991	1,274	15	2,222
Corporate debt securities	2	4	225	8	—	211
Municipal bonds	1	3	272	4	2	284
U.S. government bonds	9	4	601	8	3	524
Other debt securities	—	—	5	—	—	6
Total NDTF Investments	\$ 1,105	\$ 52	\$ 3,153	\$ 1,294	\$ 20	\$ 3,330
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 17	\$ —	\$ —	\$ 12
Municipal bonds	—	—	47	2	—	47
Total Other Investments	\$ —	\$ —	\$ 64	\$ 2	\$ —	\$ 59
Total Investments	\$ 1,105	\$ 52	\$ 3,217	\$ 1,296	\$ 20	\$ 3,389

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 87
Due after one through five years	306
Due after five through 10 years	216
Due after 10 years	541
Total	\$ 1,150

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31, 2018
FV-NI:	
Realized gains	\$ 79
Realized losses	53
AFS:	
Realized gains	3
Realized losses	15

(in millions)	Years Ended December 31,	
	2017	2016
Realized gains	\$ 65	\$ 84
Realized losses	56	64

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DUKE ENERGY PROGRESS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 46	\$ —	\$ —	\$ 50
Equity securities	833	30	1,588	980	12	1,795
Corporate debt securities	2	3	171	6	—	149
Municipal bonds	1	3	271	4	2	283
U.S. government bonds	6	3	415	5	2	310
Other debt securities	—	—	3	—	—	4
Total NDTF Investments	\$ 842	\$ 39	\$ 2,494	\$ 995	\$ 16	\$ 2,591
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 6	\$ —	\$ —	\$ 1
Total Other Investments	\$ —	\$ —	\$ 6	\$ —	\$ —	\$ 1
Total Investments	\$ 842	\$ 39	\$ 2,500	\$ 995	\$ 16	\$ 2,592

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 49
Due after one through five years	231
Due after five through 10 years	161
Due after 10 years	419
Total	\$ 860

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31, 2018
FV-NI:	
Realized gains	\$ 68
Realized losses	48
AFS:	
Realized gains	\$ 2
Realized losses	10

(in millions)	Years Ended December 31,	
	2017	2016
Realized gains	\$ 54	\$ 71
Realized losses	48	55

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DUKE ENERGY FLORIDA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 13	\$ —	\$ —	\$ 33
Equity securities	260	11	403	294	3	427
Corporate debt securities	—	1	54	2	—	62
Municipal bonds	—	—	1	—	—	1
U.S. government bonds	3	1	186	3	1	214
Other debt securities	—	—	2	—	—	2
Total NDTF Investments^(a)	\$ 263	\$ 13	\$ 659	\$ 299	\$ 4	\$ 739
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 1
Municipal bonds	—	—	47	2	—	47
Total Other Investments	\$ —	\$ —	\$ 48	\$ 2	\$ —	\$ 48
Total Investments	\$ 263	\$ 13	\$ 707	\$ 301	\$ 4	\$ 787

(a) During the year ended December 31, 2018, Duke Energy Florida continued to receive reimbursements from the NDTF for costs related to ongoing decommissioning activity of the Crystal River Unit 3 nuclear plant.

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 38
Due after one through five years	75
Due after five through 10 years	55
Due after 10 years	122
Total	\$ 290

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31, 2018
FV-NI:	
Realized gains	\$ 11
Realized losses	5
AFS:	
Realized gains	1
Realized losses	5

(in millions)	Years Ended December 31,	
	2017	2016
Realized gains	\$ 11	\$ 13
Realized losses	8	9

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DUKE ENERGY INDIANA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are measured at FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
Investments						
Equity securities	\$ 29	\$ —	\$ 67	\$ 49	\$ —	\$ 97
Corporate debt securities	—	—	8	—	—	3
Municipal bonds	—	1	33	—	1	28
Total Investments	\$ 29	\$ 1	\$ 108	\$ 49	\$ 1	\$ 128

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 3
Due after one through five years	20
Due after five through 10 years	4
Due after 10 years	14
Total	\$41

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were insignificant.

16. FAIR VALUE MEASUREMENTS

Fair value is the exchange price to sell an asset or transfer a liability in an orderly transaction between market participants at the measurement date. The fair value definition focuses on an exit price versus the acquisition cost. Fair value measurements use market data or assumptions market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique. These inputs may be readily observable, corroborated by market data, or generally unobservable. Valuation techniques maximize the use of observable inputs and minimize use of unobservable inputs. A midmarket pricing convention (the midpoint price between bid and ask prices) is permitted for use as a practical expedient.

Fair value measurements are classified in three levels based on the fair value hierarchy as defined by GAAP. Certain investments are not categorized within the fair value hierarchy. These investments are measured at fair value using the NAV per share practical expedient. The NAV is derived based on the investment cost, less any impairment, plus or minus changes resulting from observable price changes for an identical or similar investment of the same issuer.

Fair value accounting guidance permits entities to elect to measure certain financial instruments that are not required to be accounted for at fair value, such as equity method investments or the company's own debt, at fair value. The Duke Energy Registrants have not elected to record any of these items at fair value.

Transfers between levels represent assets or liabilities that were previously (i) categorized at a higher level for which the inputs to the estimate became less observable or (ii) classified at a lower level for which the inputs became more observable during the period. The Duke Energy Registrant's policy is to recognize transfers between levels of the fair value hierarchy at the end of the period. There were no transfers between levels during the years ended December 31, 2018, 2017 and 2016. In addition, for Piedmont, there were no transfers between levels during the two months ended December 31, 2016, and the year ended October 31, 2016.

Valuation methods of the primary fair value measurements disclosed below are as follows.

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Investments in equity securities

The majority of investments in equity securities are valued using Level 1 measurements. Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the quarter. Principal active markets for equity prices include published exchanges such as the NYSE and the Nasdaq Stock Market. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. There was no after-hours market activity that was required to be reflected in the reported fair value measurements.

Investments in debt securities

Most investments in debt securities are valued using Level 2 measurements because the valuations use interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3.

Commodity derivatives

Commodity derivatives with clearinghouses are classified as Level 1. Other commodity derivatives, including Piedmont's natural gas supply contracts, are primarily valued using internally developed discounted cash flow models that incorporate forward price, adjustments for liquidity (bid-ask spread) and

credit or non-performance risk (after reflecting credit enhancements such as collateral), and are discounted to present value. Pricing inputs are derived from published exchange transaction prices and other observable data sources. In the absence of an active market, the last available price may be used. If forward price curves are not observable for the full term of the contract and the unobservable period had more than an insignificant impact on the valuation, the commodity derivative is classified as Level 3. In isolation, increases (decreases) in natural gas forward prices result in favorable (unfavorable) fair value adjustments for natural gas purchase contracts; and increases (decreases) in electricity forward prices result in unfavorable (favorable) fair value adjustments for electricity sales contracts. Duke Energy regularly evaluates and validates pricing inputs used to estimate the fair value of natural gas commodity contracts by a market participant price verification procedure. This procedure provides a comparison of internal forward commodity curves to market participant generated curves.

Interest rate derivatives

Most over-the-counter interest rate contract derivatives are valued using financial models that utilize observable inputs for similar instruments and are classified as Level 2. Inputs include forward interest rate curves, notional amounts, interest rates and credit quality of the counterparties.

Other fair value considerations

See Note 11 for a discussion of the valuation of goodwill and intangible assets.

DUKE ENERGY

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets. Derivative amounts in the tables below for all Duke Energy Registrants exclude cash collateral, which is disclosed in Note 14. See Note 15 for additional information related to investments by major security type for the Duke Energy Registrants.

(in millions)	December 31, 2018				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,475	\$ 4,410	\$ —	\$ —	\$ 65
NDTF debt securities	2,231	576	1,655	—	—
Other equity securities	99	99	—	—	—
Other debt securities	270	67	203	—	—
Derivative assets	57	4	25	28	—
Total assets	7,132	5,156	1,883	28	65
Derivative liabilities	(242)	(11)	(90)	(141)	—
Net assets (liabilities)	\$ 6,890	\$ 5,145	\$ 1,793	\$ (113)	\$ 65

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(in millions)	December 31, 2017				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,914	\$ 4,840	\$ —	\$ —	\$ 74
NDTF debt securities	2,174	635	1,539	—	—
Other equity securities	123	123	—	—	—
Other debt securities	241	57	184	—	—
Derivative assets	51	3	20	28	—
Total assets	7,503	5,658	1,743	28	74
Derivative liabilities	(230)	(2)	(86)	(142)	—
Net assets (liabilities)	\$ 7,273	\$ 5,656	\$ 1,657	\$ (114)	\$ 74

The following tables provide reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements. Amounts included in earnings for derivatives are primarily included in Cost of natural gas on the Duke Energy Registrants' Consolidated Statements of Operations and Comprehensive Income. Amounts included in changes of net assets on the Duke Energy Registrants' Consolidated Balance Sheets are included in regulatory assets or liabilities. All derivative assets and liabilities are presented on a net basis.

(in millions)	December 31, 2018		December 31, 2017	
	Derivatives (net)	Investments	Derivatives (net)	Total
Balance at beginning of period	\$ (114)	\$ 5	\$ (166)	\$ (161)
Total pretax realized or unrealized gains included in comprehensive income	—	1	—	1
Purchases, sales, issuances and settlements:				
Purchases	57	—	55	55
Sales	—	(6)	—	(6)
Settlements	(57)	—	(47)	(47)
Total gains included on the Consolidated Balance Sheet	1	—	44	44
Balance at end of period	\$ (113)	\$ —	\$ (114)	\$ (114)

DUKE ENERGY CAROLINAS

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF equity securities	\$ 2,484	\$ 2,419	\$ —	\$ 65
NDTF debt securities	1,069	149	920	—
Derivative assets	3	—	3	—
Total assets	3,556	2,568	923	65
Derivative liabilities	(33)	—	(33)	—
Net assets	\$ 3,523	\$ 2,568	\$ 890	\$ 65

(in millions)	December 31, 2017			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF equity securities	\$ 2,692	\$ 2,618	\$ —	\$ 74
NDTF debt securities	1,066	204	862	—
Derivative assets	2	—	2	—
Total assets	3,760	2,822	864	74
Derivative liabilities	(35)	(1)	(34)	—
Net assets	\$ 3,725	\$ 2,821	\$ 830	\$ 74

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The following table provides reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Investments
	Year Ended December 31,
	2017
Balance at beginning of period	\$ 3
Total pretax realized or unrealized gains included in comprehensive income	1
Purchases, sales, issuances and settlements:	
Sales	(4)
Balance at end of period	\$ —

PROGRESS ENERGY

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 1,991	\$ 1,991	\$ —	\$ 2,222	\$ 2,222	\$ —
NDTF debt securities	1,162	427	735	1,108	431	677
Other debt securities	64	17	47	59	12	47
Derivative assets	4	—	4	3	1	2
Total assets	3,221	2,435	786	3,392	2,666	726
Derivative liabilities	(44)	—	(44)	(36)	(1)	(35)
Net assets	\$ 3,177	\$ 2,435	\$ 742	\$ 3,356	\$ 2,665	\$ 691

DUKE ENERGY PROGRESS

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 1,588	\$ 1,588	\$ —	\$ 1,795	\$ 1,795	\$ —
NDTF debt securities	906	294	612	796	243	553
Other debt securities	6	6	—	1	1	—
Derivative assets	4	—	4	2	1	1
Total assets	2,504	1,888	616	2,594	2,040	554
Derivative liabilities	(27)	—	(27)	(18)	(1)	(17)
Net assets	\$ 2,477	\$ 1,888	\$ 589	\$ 2,576	\$ 2,039	\$ 537

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DUKE ENERGY FLORIDA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 403	\$ 403	\$ —	\$ 427	\$ 427	\$ —
NDTF debt securities	256	133	123	312	188	124
Other debt securities	48	1	47	48	1	47
Derivative assets	—	—	—	1	—	1
Total assets	707	537	170	788	616	172
Derivative liabilities	(9)	—	(9)	(12)	—	(12)
Net assets	\$ 698	\$ 537	\$ 161	\$ 776	\$ 616	\$ 160

DUKE ENERGY OHIO

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 2	Level 3	Total Fair Value	Level 2	Level 3
Derivative assets	\$ 6	\$ —	\$ 6	\$ 1	\$ —	\$ 1
Derivative liabilities	(5)	(5)	—	(5)	(5)	—
Net assets (liabilities)	\$ 1	\$ (5)	\$ 6	\$ (4)	\$ (5)	\$ 1

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ 1	\$ 5
Purchases, sales, issuances and settlements:		
Purchases	7	3
Settlements	(4)	(4)
Total gains included on the Consolidated Balance Sheet	2	(3)
Balance at end of period	\$ 6	\$ 1

DUKE ENERGY INDIANA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018				December 31, 2017			
	Total Fair Value	Level 1	Level 2	Level 3	Total Fair Value	Level 1	Level 2	Level 3
Other equity securities	\$ 67	\$ 67	\$ —	\$ —	\$ 97	\$ 97	\$ —	\$ —
Other debt securities	41	—	41	—	31	—	31	—
Derivative assets	23	1	—	22	27	—	—	27
Total assets	\$ 131	\$ 68	\$ 41	\$ 22	\$ 155	\$ 97	\$ 31	\$ 27

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The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ 27	\$ 16
Purchases, sales, issuances and settlements:		
Purchases	50	52
Settlements	(53)	(43)
Total (losses) gains included on the Consolidated Balance Sheet	(2)	2
Balance at end of period	\$ 22	\$ 27

PIEDMONT

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 3	Total Fair Value	Level 1	Level 3
Other debt securities	\$ —	\$ —	\$ —	\$ 1	\$ 1	\$ —
Derivative assets	3	3	—	2	2	—
Total assets	3	3	—	3	3	—
Derivative liabilities	(141)	—	(141)	(142)	—	(142)
Net (liabilities) assets	\$ (138)	\$ 3	\$ (141)	\$ (139)	\$ 3	\$ (142)

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$(142)	\$(187)
Total gains and settlements	1	45
Balance at end of period	\$(141)	\$(142)

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QUANTITATIVE INFORMATION ABOUT UNOBSERVABLE INPUTS

The following tables include quantitative information about the Duke Energy Registrants' derivatives classified as Level 3.

December 31, 2018				
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range
Duke Energy Ohio				
FTRs	\$ 6	RTO auction pricing	FTR price – per MWh	\$ 1.19 — \$ 4.59
Duke Energy Indiana				
FTRs	22	RTO auction pricing	FTR price – per MWh	(2.07) — 8.27
Piedmont				
Natural gas contracts	(141)	Discounted cash flow	Forward natural gas curves – price per MMBtu	1.87 — 2.95
Duke Energy				
Total Level 3 derivatives	\$ (113)			

December 31, 2017				
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range
Duke Energy Ohio				
FTRs	\$ 1	RTO auction pricing	FTR price – per MWh	\$ 0.07 — \$ 1.41
Duke Energy Indiana				
FTRs	27	RTO auction pricing	FTR price – per MWh	(0.77) — 7.44
Piedmont				
Natural gas contracts	(142)	Discounted cash flow	Forward natural gas curves – price per MMBtu	2.10 — 2.88
Duke Energy				
Total Level 3 derivatives	\$ (114)			

OTHER FAIR VALUE DISCLOSURES

The fair value and book value of long-term debt, including current maturities, is summarized in the following table. Estimates determined are not necessarily indicative of amounts that could have been settled in current markets. Fair value of long-term debt uses Level 2 measurements.

(in millions)	December 31, 2018		December 31, 2017	
	Book Value	Fair Value	Book Value	Fair Value
Duke Energy ^(a)	\$ 54,529	\$ 54,534	\$ 52,279	\$ 55,331
Duke Energy Carolinas	10,839	11,471	10,103	11,372
Progress Energy	18,911	19,885	17,837	20,000
Duke Energy Progress	8,204	8,300	7,357	7,992
Duke Energy Florida	7,321	7,742	7,095	7,953
Duke Energy Ohio	2,165	2,239	2,067	2,249
Duke Energy Indiana	3,782	4,158	3,783	4,464
Piedmont	2,138	2,180	2,037	2,209

(a) Book value of long-term debt includes \$1.6 billion as of December 31, 2018, and \$1.7 billion as of December 31, 2017, of unamortized debt discount and premium, net in purchase accounting adjustments related to the mergers with Progress Energy and Piedmont that are excluded from fair value of long-term debt.

At both December 31, 2018, and December 31, 2017, fair value of cash and cash equivalents, accounts and notes receivable, accounts payable, notes payable and commercial paper, and nonrecourse notes payable of VIEs are not materially different from their carrying amounts because of the short-term nature of these instruments and/or because the stated rates approximate market rates.

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17. VARIABLE INTEREST ENTITIES

A VIE is an entity that is evaluated for consolidation using more than a simple analysis of voting control. The analysis to determine whether an entity is a VIE considers contracts with an entity, credit support for an entity, the adequacy of the equity investment of an entity and the relationship of voting power to the amount of equity invested in an entity. This analysis is performed either upon the creation of a legal entity or upon the occurrence of an event requiring reevaluation, such as a significant change in an entity's assets or activities. A qualitative analysis of control determines the party that consolidates a VIE. This assessment is based on (i) what party has the power to direct the activities of the VIE that most significantly impact its economic performance and (ii) what party has rights to receive benefits or is obligated to absorb losses that could potentially be significant to the VIE. The analysis of the party that consolidates a VIE is a continual reassessment.

CONSOLIDATED VIEs

The obligations of these VIEs discussed in the following paragraphs are nonrecourse to the Duke Energy Registrants. The registrants have no requirement to provide liquidity to, purchase assets of or guarantee performance of these VIEs unless noted in the following paragraphs.

No financial support was provided to any of the consolidated VIEs during the years ended December 31, 2018, 2017 and 2016, or is expected to be provided in the future, that was not previously contractually required.

Receivables Financing – DERF/DEPR/DEFR

DERF, DEPR and DEFR are bankruptcy remote, special purpose subsidiaries of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, respectively. DERF, DEPR and DEFR are wholly owned limited liability companies with separate legal existence from their parent companies and their assets are not generally available to creditors of their parent companies. On a revolving basis, DERF, DEPR and DEFR buy certain accounts receivable arising from the sale of electricity and related services from their parent companies.

DERF, DEPR and DEFR borrow amounts under credit facilities to buy these receivables. Borrowing availability from the credit facilities is limited to the

amount of qualified receivables purchased. The sole source of funds to satisfy the related debt obligations is cash collections from the receivables. Amounts borrowed under the credit facilities are reflected on the Consolidated Balance Sheets as Long-Term Debt.

The most significant activity that impacts the economic performance of DERF, DEPR and DEFR are the decisions made to manage delinquent receivables. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are considered the primary beneficiaries and consolidate DERF, DEPR and DEFR, respectively, as they make those decisions.

Receivables Financing – CRC

CRC is a bankruptcy remote, special purpose entity indirectly owned by Duke Energy. On a revolving basis, CRC buys certain accounts receivable arising from the sale of electricity, natural gas and related services from Duke Energy Ohio and Duke Energy Indiana. CRC borrows amounts under a credit facility to buy the receivables from Duke Energy Ohio and Duke Energy Indiana. Borrowing availability from the credit facility is limited to the amount of qualified receivables sold to CRC. The sole source of funds to satisfy the related debt obligation is cash collections from the receivables. Amounts borrowed under the credit facility are reflected on Duke Energy's Consolidated Balance Sheets as Long-Term Debt.

The proceeds Duke Energy Ohio and Duke Energy Indiana receive from the sale of receivables to CRC are approximately 75 percent cash and 25 percent in the form of a subordinated note from CRC. The subordinated note is a retained interest in the receivables sold. Depending on collection experience, additional equity infusions to CRC may be required by Duke Energy to maintain a minimum equity balance of \$3 million.

CRC is considered a VIE because (i) equity capitalization is insufficient to support its operations, (ii) power to direct the activities that most significantly impact the economic performance of the entity are not performed by the equity holder and (iii) deficiencies in net worth of CRC are funded by Duke Energy. The most significant activities that impact the economic performance of CRC are decisions made to manage delinquent receivables. Duke Energy is considered the primary beneficiary and consolidates CRC as it makes these decisions. Neither Duke Energy Ohio nor Duke Energy Indiana consolidate CRC.

Receivables Financing – Credit Facilities

The following table outlines amounts and expiration dates of the credit facilities described above.

	Duke Energy			
		Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida
	CRC	DERF	DEPR	DEFR
Expiration date	December 2020	December 2020	February 2021	April 2021
Credit facility amount (in millions)	\$ 325	\$ 450	\$ 300	\$ 225
Amounts borrowed at December 31, 2018	325	450	300	225
Amounts borrowed at December 31, 2017	325	450	300	225
Restricted Receivables at December 31, 2018	564	699	547	357
Restricted Receivables at December 31, 2017	545	640	459	317

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Nuclear Asset-Recovery Bonds – DEFPF

DEFPF is a bankruptcy remote, wholly owned special purpose subsidiary of Duke Energy Florida. DEFPF was formed in 2016 for the sole purpose of issuing nuclear asset-recovery bonds to finance Duke Energy Florida's unrecovered regulatory asset related to Crystal River Unit 3.

In 2016, DEFPF issued senior secured bonds and used the proceeds to acquire nuclear asset-recovery property from Duke Energy Florida. The nuclear asset-recovery property acquired includes the right to impose, bill, collect and adjust a non-bypassable nuclear asset-recovery charge from all Duke Energy Florida retail customers until the bonds are paid in full and all financing costs have been recovered. The nuclear asset-recovery bonds are secured by the nuclear asset-recovery property and cash collections from the nuclear asset-recovery charges are the sole source of funds to satisfy the debt obligation. The bondholders have no recourse to Duke Energy Florida. For additional information see Notes 4 and 6.

DEFPF is considered a VIE primarily because the equity capitalization is insufficient to support its operations. Duke Energy Florida has the power to direct the significant activities of the VIE as described above and therefore Duke Energy Florida is considered the primary beneficiary and consolidates DEFPF.

The following table summarizes the impact of DEFPF on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31, 2018	December 31, 2017
Receivables of VIEs	\$ 5	\$ 4
Regulatory Assets: Current	52	51
Current Assets: Other	39	40
Other Noncurrent Assets: Regulatory assets	1,041	1,091
Current Liabilities: Other	10	10
Current maturities of long-term debt	53	53
Long-Term Debt	1,111	1,164

Commercial Renewables

Certain of Duke Energy's renewable energy facilities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Assets are restricted and cannot be pledged as collateral or sold to third parties without prior approval of debt holders. Additionally, Duke Energy has VIEs associated with tax equity arrangements entered into with third-party investors in order to finance the cost of solar energy systems eligible for tax credits. The activities that most significantly impacted the economic performance of these renewable energy facilities were decisions associated with siting, negotiating PPAs and EPC agreements, and decisions associated with ongoing operations and maintenance-related activities. Duke Energy is considered the primary beneficiary and consolidates the entities as it is responsible for all of these decisions.

The table below presents material balances reported on Duke Energy's Consolidated Balance Sheets related to renewables VIEs.

(in millions)	December 31, 2018	December 31, 2017
Current Assets: Other	\$ 123	\$ 174
Property, plant and equipment, cost	4,007	3,923
Accumulated depreciation and amortization	(698)	(591)
Other Noncurrent Assets: Other	261	50
Current maturities of long-term debt	174	170
Long-Term Debt	1,587	1,700
Other Noncurrent Liabilities: Deferred income taxes	—	(148)
Other Noncurrent Liabilities: Asset Retirement Obligations	106	83
Other Noncurrent Liabilities: Other	212	241

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NON-CONSOLIDATED VIEs

The following tables summarize the impact of non-consolidated VIEs on the Consolidated Balance Sheets.

(in millions)	December 31, 2018					
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana
	Pipeline Investments	Commercial Renewables	Other VIEs	Total		
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 93	\$ 118
Investments in equity method unconsolidated affiliates	822	190	48	1,060	—	—
Total assets	\$ 822	\$ 190	\$ 48	\$ 1,060	\$ 93	\$ 118
Taxes accrued	(1)	—	—	(1)	—	—
Other current liabilities	—	—	4	4	—	—
Deferred income taxes	21	—	—	21	—	—
Other noncurrent liabilities	—	—	12	12	—	—
Total liabilities	\$ 20	\$ —	\$ 16	\$ 36	\$ —	\$ —
Net assets	\$ 802	\$ 190	\$ 32	\$ 1,024	\$ 93	\$ 118

(in millions)	December 31, 2017					
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana
	Pipeline Investments	Commercial Renewables	Other VIEs	Total		
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 87	\$ 106
Investments in equity method unconsolidated affiliates	697	180	42	919	—	—
Other noncurrent assets	17	—	—	17	—	—
Total assets	\$ 714	\$ 180	\$ 42	\$ 936	\$ 87	\$ 106
Taxes accrued	(29)	—	—	(29)	—	—
Other current liabilities	—	—	4	4	—	—
Deferred income taxes	42	—	—	42	—	—
Other noncurrent liabilities	—	—	12	12	—	—
Total liabilities	\$ 13	\$ —	\$ 16	\$ 29	\$ —	\$ —
Net assets	\$ 701	\$ 180	\$ 26	\$ 907	\$ 87	\$ 106

The Duke Energy Registrants are not aware of any situations where the maximum exposure to loss significantly exceeds the carrying values shown above except for the power purchase agreement with OVEC, which is discussed below, and various guarantees, including Duke Energy's guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$677 million as of December 31, 2018. For more information on various guarantees, refer to Note 7.

Pipeline Investments

Duke Energy has investments in various joint ventures with pipeline projects currently under construction. These entities are considered VIEs due to having insufficient equity to finance their own activities without subordinated financial support. Duke Energy does not have the power to direct the activities that most significantly impact the economic performance, the obligation to absorb losses or the right to receive benefits of these VIEs and therefore does not consolidate these entities.

The table below presents Duke Energy's ownership interest and investment balance in these joint ventures.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31, 2018	December 31, 2017
ACP	47%	\$ 797	\$ 397
Sabal Trail ^(a)	7.5%	—	219
Constitution ^(b)	24%	25	81
Total		\$ 822	\$ 697

(a) At December 31, 2017, Sabal Trail was considered a VIE due to having insufficient equity to finance their own activities without subordinated financial support. However, Sabal Trail is now a fully operational, well capitalized entity. As a result, Sabal Trail has sufficient equity to finance its own activities, and therefore, is no longer considered a VIE. Duke Energy's investment in Sabal Trail was \$112 million at December 31, 2018.

(b) During the year ended December 31, 2018, Duke Energy recorded an OTTI of \$55 million related to Constitution within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Income. See Note 4 for additional information.

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Commercial Renewables

Duke Energy has investments in various renewable energy project entities. Some of these entities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Duke Energy does not consolidate these VIEs because power to direct and control key activities is shared jointly by Duke Energy and other owners.

Pioneer

Duke Energy holds a 50 percent equity interest in Pioneer. Pioneer is considered a VIE due to having insufficient equity to finance their own activities without subordinated financial support. The activities that most significantly impact Pioneer's economic performance are decisions related to the development of new transmission facilities. The power to direct these activities is jointly and equally shared by Duke Energy and the other joint venture partner, American Electric Power; therefore, Duke Energy does not consolidate Pioneer.

OVEC

Duke Energy Ohio's 9 percent ownership interest in OVEC is considered a non-consolidated VIE due to having insufficient equity to finance its activities without subordinated financial support. The activities that most significantly impact OVEC's economic performance include fuel strategy and supply activities and decisions associated with ongoing operations and maintenance-related activities. Duke Energy Ohio does not have the unilateral power to direct these activities, and therefore, does not consolidate OVEC.

As a counterparty to an ICPA, Duke Energy Ohio has a contractual arrangement to receive entitlements to capacity and energy from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization, and interest expense, are allocated to counterparties to the ICPA based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuation in

power prices and changes in OVEC's cost of business. On March 31, 2018, FES, a subsidiary of FirstEnergy and an ICPA counterparty with a power participation ratio of 4.85 percent, filed for Chapter 11 bankruptcy, which could increase costs allocated to the counterparties. On July 31, 2018, the bankruptcy court rejected the FES ICPA, which means OVEC is an unsecured creditor in the FES bankruptcy proceeding. Duke Energy Ohio cannot predict the impact of the bankruptcy filing on its OVEC interests. In addition, certain proposed environmental rulemaking could result in future increased OVEC cost allocations. See Note 4 for additional information.

CRC

See discussion under Consolidated VIEs for additional information related to CRC.

Amounts included in Receivables from affiliated companies in the above table for Duke Energy Ohio and Duke Energy Indiana reflect their retained interest in receivables sold to CRC. These subordinated notes held by Duke Energy Ohio and Duke Energy Indiana are stated at fair value. Carrying values of retained interests are determined by allocating carrying value of the receivables between assets sold and interests retained based on relative fair value. The allocated bases of the subordinated notes are not materially different than their face value because (i) the receivables generally turnover in less than two months, (ii) credit losses are reasonably predictable due to the broad customer base and lack of significant concentration and (iii) the equity in CRC is subordinate to all retained interests and thus would absorb losses first. The hypothetical effect on fair value of the retained interests assuming both a 10 percent and a 20 percent unfavorable variation in credit losses or discount rates is not material due to the short turnover of receivables and historically low credit loss history. Interest accrues to Duke Energy Ohio and Duke Energy Indiana on the retained interests using the acceptable yield method. This method generally approximates the stated rate on the notes since the allocated basis and the face value are nearly equivalent. An impairment charge is recorded against the carrying value of both retained interests and purchased beneficial interest whenever it is determined that an OTTI has occurred.

Key assumptions used in estimating fair value are detailed in the following table.

	Duke Energy Ohio		Duke Energy Indiana	
	2018	2017	2018	2017
Anticipated credit loss ratio	0.5%	0.5%	0.3%	0.3%
Discount rate	3.0%	2.1%	3.0%	2.1%
Receivable turnover rate	13.5%	13.5%	11.0%	10.7%

The following table shows the gross and net receivables sold.

(in millions)	Duke Energy Ohio		Duke Energy Indiana	
	2018	2017	2018	2017
Receivables sold	\$ 269	\$ 273	\$ 336	\$ 312
Less: Retained interests	93	87	118	106
Net receivables sold	\$ 176	\$ 186	\$ 218	\$ 206

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The following table shows sales and cash flows related to receivables sold.

(in millions)	Duke Energy Ohio			Duke Energy Indiana		
	Years Ended December 31,			Years Ended December 31,		
	2018	2017	2016	2018	2017	2016
Sales						
Receivables sold	\$1,987	\$1,879	\$1,926	\$2,842	\$2,711	\$2,635
Loss recognized on sale	13	10	9	16	12	11
Cash Flows						
Cash proceeds from receivables sold	1,967	1,865	1,882	2,815	2,694	2,583
Collection fees received	1	1	1	1	1	1
Return received on retained interests	6	3	2	9	7	5

Cash flows from the sales of receivables are reflected within Cash Flows From Operating Activities on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Cash Flows.

Collection fees received in connection with servicing transferred accounts receivable are included in Operation, maintenance and other on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Operations and Comprehensive Income. The loss recognized on sales of receivables is

calculated monthly by multiplying receivables sold during the month by the required discount. The required discount is derived monthly utilizing a three-year weighted average formula that considers charge-off history, late charge history and turnover history on the sold receivables, as well as a component for the time value of money. The discount rate, or component for the time value of money, is the prior month-end LIBOR plus a fixed rate of 1.00 percent.

18. REVENUE

As described in Note 1, Duke Energy adopted Revenue from Contracts with Customers effective January 1, 2018, using the modified retrospective method of adoption, which does not require restatement of prior year reported results. No cumulative effect adjustment was recorded as the vast majority of Duke Energy's revenues are at-will and without a defined contractual term. Additionally, comparative disclosures for 2018 operating results with the previous revenue recognition rules are not applicable as Duke Energy's revenue recognition has not materially changed as a result of the new standard.

Duke Energy recognizes revenue consistent with amounts billed under tariff offerings or at contractually agreed upon rates based on actual physical delivery of electric or natural gas service, including estimated volumes delivered when billings have not yet occurred. As such, the majority of Duke Energy's revenues have fixed pricing based on the contractual terms of the published tariffs, with variability in expected cash flows attributable to the customer's volumetric demand and ultimate quantities of energy or natural gas supplied and used during the billing period. The stand-alone selling price of related sales are designed to support recovery of prudently incurred costs and an appropriate return on invested assets and are primarily governed by published tariff rates or contractual agreements approved by relevant regulatory bodies. As described in Note 1, certain excise taxes and franchise fees levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis as part of revenues. Duke Energy elects to account for all other taxes net of revenues.

Performance obligations are satisfied over time as energy or natural gas is delivered and consumed with billings generally occurring monthly and related payments due within 30 days, depending on regulatory requirements. In no event does the timing between payment and delivery of the goods and services exceed one year. Using this output method for revenue recognition provides a faithful depiction of the transfer of electric and natural gas service as customers obtain control of the commodity and benefit from its use at delivery. Additionally, Duke Energy has an enforceable right to consideration for energy or natural gas

delivered at any discrete point in time, and will recognize revenue at an amount that reflects the consideration to which Duke Energy is entitled for the energy or natural gas delivered.

As described above, the majority of Duke Energy's tariff revenues are at-will and, as such, related contracts with customers have an expected duration of one year or less and will not have future performance obligations for disclosure. Additionally, other long-term revenue streams, including wholesale contracts, generally provide services that are part of a single performance obligation, the delivery of electricity or natural gas. As such, other than material fixed consideration under long-term contracts, related disclosures for future performance obligations are also not applicable.

Duke Energy earns substantially all of its revenues through its reportable segments, Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

Electric Utilities and Infrastructure

Electric Utilities and Infrastructure earns the majority of its revenues through retail and wholesale electric service through the generation, transmission, distribution and sale of electricity. Duke Energy generally provides retail and wholesale electric service customers with their full electric load requirements or with supplemental load requirements when the customer has other sources of electricity.

Retail electric service is generally marketed throughout Duke Energy's electric service territory through standard service offers. The standard service offers are through tariffs determined by regulators in Duke Energy's regulated service territory. Each tariff, which is assigned to customers based on customer class, has multiple components such as an energy charge, a demand charge, a basic facilities charge and applicable riders. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing electric service, or in the case of distribution only customers in

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Duke Energy Ohio, for delivering electricity. Electricity is considered a single performance obligation satisfied over time consistent with the series guidance and is provided and consumed over the billing period, generally one month. Retail electric service is typically provided to at-will customers who can cancel service at any time, without a substantive penalty. Additionally, Duke Energy adheres to applicable regulatory requirements in each jurisdiction to ensure the collectability of amounts billed and appropriate mitigating procedures are followed when necessary. As such, revenue from contracts with customers for such contracts is equivalent to the electricity supplied and billed in that period (including unbilled estimates).

Wholesale electric service is generally provided under long-term contracts using cost-based pricing. FERC regulates costs that may be recovered from customers and the amount of return companies are permitted to earn. Wholesale contracts include both energy and demand charges. For full requirements contracts, Duke Energy considers both charges as a single performance obligation for providing integrated electric service. For contracts where energy and demand charges are considered separate performance

obligations, energy and demand are each a distinct performance obligation under the series guidance and are satisfied as energy is delivered and stand-ready service is provided on a monthly basis. This service represents consumption over the billing period and revenue is recognized consistent with billings and unbilled estimates, which generally occur monthly. Contractual amounts owed are typically trued up annually based upon incurred costs in accordance with FERC published filings and the specific customer's actual peak demand. Estimates of variable consideration related to potential additional billings or refunds owed are updated quarterly.

The majority of wholesale revenues are full requirements contracts where the customers purchase the substantial majority of their energy needs and do not have a fixed quantity of contractually required energy or capacity. As such, related forecasted revenues are considered optional purchases. Supplemental requirements contracts that include contracted blocks of energy and capacity at contractually fixed prices have the following estimated remaining performance obligations:

(in millions)	Remaining Performance Obligations						
	2019	2020	2021	2022	2023	Thereafter	Total
Progress Energy	\$ 112	\$ 121	\$ 80	\$ 82	\$ 39	\$ 42	\$ 476
Duke Energy Progress	9	9	9	9	9	9	54
Duke Energy Florida	103	112	71	73	30	33	422
Duke Energy Indiana	9	10	5	—	—	—	24

Revenues for block sales are recognized monthly as energy is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates.

Gas Utilities and Infrastructure

Gas Utilities and Infrastructure earns its revenue through retail and wholesale natural gas service through the transportation, distribution and sale of natural gas. Duke Energy generally provides retail and wholesale natural gas service customers with all natural gas load requirements. Additionally, while natural gas can be stored, substantially all natural gas provided by Duke Energy is consumed by customers simultaneously with receipt of delivery.

Retail natural gas service is marketed throughout Duke Energy's natural gas service territory using published tariff rates. The tariff rates are established by regulators in Duke Energy's service territories. Each tariff, which is assigned to customers based on customer class, have multiple components, such as a commodity charge, demand charge, customer or monthly charge and transportation costs. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing natural gas service. For contracts where Duke Energy provides all of the customer's natural gas needs, the delivery of natural gas is considered a single performance

obligation satisfied over time, and revenue is recognized monthly based on billings and unbilled estimates as service is provided and the commodity is consumed over the billing period. Additionally, natural gas service is typically at-will and customers can cancel service at any time, without a substantive penalty. Duke Energy also adheres to applicable regulatory requirements to ensure the collectability of amounts billed and receivable and appropriate mitigating procedures are followed when necessary.

Certain long-term individually negotiated contracts exist to provide natural gas service. These contracts are regulated and approved by state commissions. The negotiated contracts have multiple components, including a natural gas and a demand charge, similar to retail natural gas contracts. Duke Energy considers each of these components to be a single performance obligation for providing natural gas service. This service represents consumption over the billing period, generally one month.

Fixed capacity payments under long-term contracts for the Gas Utilities and Infrastructure segment include minimum margin contracts and supply arrangements with municipalities and power generation facilities. Revenues for related sales are recognized monthly as natural gas is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates. Estimated remaining performance obligations are as follows:

(in millions)	Remaining Performance Obligations						
	2019	2020	2021	2022	2023	Thereafter	Total
Piedmont	\$ 70	\$ 68	\$ 63	\$ 63	\$ 60	\$ 430	\$ 754

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Commercial Renewables

Commercial Renewables earns the majority of its revenues through long-term PPAs and generally sells all of its wind and solar facility output, electricity and RECs to customers. The majority of these PPAs have historically been accounted for as leases. For PPAs that are not accounted for as leases, the delivery of electricity and the delivery of RECs are considered separate performance obligations.

The delivery of electricity is a performance obligation satisfied over time and represents generation and consumption of the electricity over the billing period, generally one month. The delivery of RECs is a performance obligation satisfied at a point in time and represents delivery of each REC generated by the wind or solar facility. The majority of self-generated RECs are bundled with energy in Duke Energy's contracts and, as such, related revenues are recognized as energy is generated and delivered as that pattern is consistent with Duke Energy's performance. Commercial Renewables recognizes revenue based on the energy generated and billed for the period, generally one month, at contractual rates (including unbilled estimates) according to the invoice practical expedient. Amounts are typically due within 30 days of invoice.

Commercial Renewables also earns revenues from installation of distributed solar generation resources, which is primarily composed of EPC projects to deliver functioning solar power systems, generally completed within two to 12 months from commencement of construction. The installation of distributed solar generation resources is a performance obligation that is satisfied over time. Revenue from fixed-price EPC contracts is recognized using

the input method as work is performed based on the estimated ratio of incurred costs to estimated total costs.

Other

The remainder of Duke Energy's operations is presented as Other, which does not include material revenues from contracts with customers.

Disaggregated Revenues

For the Electric and Gas Utility and Infrastructure segments, revenue by customer class is most meaningful to Duke Energy as each respective customer class collectively represents unique customer expectations of service, generally has different energy and demand requirements, and operates under tailored, regulatory approved pricing structures. Additionally, each customer class is impacted differently by weather and a variety of economic factors including the level of population growth, economic investment, employment levels, and regulatory activities in each of Duke Energy's jurisdictions. As such, analyzing revenues disaggregated by customer class allows Duke Energy to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. For the Commercial Renewables segment, the majority of revenues from contracts with customers are from selling all of the unit-contingent output at contractually defined pricing under long-term PPAs with consistent expectations regarding the timing and certainty of cash flows. Disaggregated revenues are presented as follows:

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
<i>Electric Utilities and Infrastructure</i>								
Residential	\$ 9,587	\$ 2,981	\$ 4,785	\$ 2,019	\$ 2,766	\$ 743	\$ 1,076	\$ —
General	6,127	2,119	2,809	1,280	1,529	422	778	—
Industrial	2,974	1,180	904	642	262	131	760	—
Wholesale	2,324	508	1,462	1,303	159	57	298	—
Other revenues	717	320	502	320	182	73	91	—
Total Electric Utilities and Infrastructure revenue from contracts with customers	\$ 21,729	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,426	\$ 3,003	\$ —
<i>Gas Utilities and Infrastructure</i>								
Residential	\$ 1,000	\$ —	\$ —	\$ —	\$ —	\$ 331	\$ —	\$ 669
Commercial	514	—	—	—	—	135	—	378
Industrial	147	—	—	—	—	18	—	128
Power Generation	—	—	—	—	—	—	—	54
Other revenues	139	—	—	—	—	19	—	120
Total Gas Utilities and Infrastructure revenue from contracts with customers	\$ 1,800	\$ —	\$ —	\$ —	\$ —	\$ 503	\$ —	\$ 1,349
<i>Commercial Renewables</i>								
Revenue from contracts with customers	\$ 209	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
<i>Other</i>								
Revenue from contracts with customers	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —	\$ —
Total revenue from contracts with customers	\$ 23,757	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,930	\$ 3,003	\$ 1,349
Other revenue sources ^(a)	\$ 764	\$ 192	\$ 266	\$ 135	\$ 123	\$ 27	\$ 56	\$ 26
Total revenues	\$ 24,521	\$ 7,300	\$ 10,728	\$ 5,699	\$ 5,021	\$ 1,957	\$ 3,059	\$ 1,375

(a) Other revenue sources include revenues from leases, derivatives and alternative revenue programs that are not considered revenues from contracts with customers. Alternative revenue programs in certain jurisdictions include regulatory mechanisms that periodically adjust for over or under collection of related revenues.

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Combined Notes to Consolidated Financial Statements – (Continued)

IMPACT OF WEATHER AND THE TIMING OF BILLING PERIODS

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions. Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling-degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating-degree day and each degree of temperature above the base temperature counts as one cooling-degree day.

The estimated impact of weather on earnings for Electric Utilities and Infrastructure is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions, such as humidity in the summer or wind chill

in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Gas Utilities and Infrastructure's costs and revenues are influenced by seasonal patterns due to peak natural gas sales occurring during the winter months as a result of space heating requirements. Residential customers are the most impacted by weather. There are certain regulatory mechanisms for the North Carolina, South Carolina, Tennessee and Ohio service territories that normalize the margins collected from certain customer classes during the winter. In North Carolina, rate design provides protection from both weather and other usage variations such as conservation, while South Carolina and Tennessee revenues are adjusted solely based on weather. Ohio primarily employs a fixed charge each month regardless of the season and usage.

UNBILLED REVENUE

Unbilled revenues are recognized by applying customer billing rates to the estimated volumes of energy or natural gas delivered but not yet billed. Unbilled revenues can vary significantly from period to period as a result of seasonality, weather, customer usage patterns, customer mix, average price in effect for customer classes, timing of rendering customer bills and meter reading schedules, and the impact of weather normalization or margin decoupling mechanisms.

Unbilled revenues are included within Receivables and Receivables of VIEs on the Consolidated Balance Sheets as shown in the following table.

(in millions)	December 31,	
	2018	2017
Duke Energy	\$ 896	\$ 944
Duke Energy Carolinas	313	342
Progress Energy	244	228
Duke Energy Progress	148	143
Duke Energy Florida	96	85
Duke Energy Ohio	2	4
Duke Energy Indiana	23	21
Piedmont	73	86

Additionally, Duke Energy Ohio and Duke Energy Indiana sell, on a revolving basis, nearly all of their retail accounts receivable, including receivables for unbilled revenues, to an affiliate, CRC and accounts for the transfers of receivables as sales. Accordingly, the receivables sold are not reflected on the Consolidated Balance Sheets of Duke Energy Ohio and Duke Energy Indiana. See Note 17 for further information. These receivables for unbilled revenues are shown in the table below.

(in millions)	December 31,	
	2018	2017
Duke Energy Ohio	\$ 86	\$ 104
Duke Energy Indiana	128	132

19. COMMON STOCK

Basic EPS is computed by dividing net income attributable to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the weighted average number of common shares outstanding during the period. Diluted EPS is computed by dividing net income attributable to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the diluted weighted average number of common shares

outstanding during the period. Diluted EPS reflects the potential dilution that could occur if securities or other agreements to issue common shares, such as stock options and equity forward sale agreements, were exercised or settled. Duke Energy's participating securities are restricted stock units that are entitled to dividends declared on Duke Energy common stock during the restricted stock unit's vesting periods.

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Combined Notes to Consolidated Financial Statements – (Continued)

The following table presents Duke Energy's basic and diluted EPS calculations and reconciles the weighted average number of common stock outstanding to the diluted weighted average number of common stock outstanding.

(in millions, except per share amounts)	Years Ended December 31,		
	2018	2017	2016
Income from continuing operations attributable to Duke Energy common stockholders excluding impact of participating securities	\$2,642	\$3,059	\$2,567
Weighted average shares outstanding – basic	708	700	691
Weighted average shares outstanding – diluted	708	700	691
Earnings per share from continuing operations attributable to Duke Energy common stockholders			
Basic	\$ 3.73	\$ 4.37	\$ 3.71
Diluted	\$ 3.73	\$ 4.37	\$ 3.71
Potentially dilutive items excluded from the calculation ^(a)	2	2	3
Dividends declared per common share	\$ 3.64	\$ 3.49	\$ 3.36

(a) Performance stock awards were not included in the dilutive securities calculation because the performance measures related to the awards had not been met.

Equity Issuances

On February 20, 2018, Duke Energy filed a prospectus supplement and executed an EDA under which it may sell up to \$1 billion of its common stock through an ATM offering program, including an equity forward sales component. The EDA was entered into with Wells Fargo Securities, LLC, Citigroup Global Markets Inc., and J.P. Morgan Securities LLC (the Agents). Under the terms of the EDA, Duke Energy may issue and sell, through any of the Agents, shares of common stock during the period ending September 23, 2019. In June 2018, Duke Energy marketed two separate tranches, each for 1.3 million shares, of common stock. The first tranche was marketed with Wells Fargo Bank at an initial forward price of \$72.02 per share and the second tranche was marketed with Citibank at an initial forward price of \$78.71 per share through equity forward transactions under the ATM program. The Equity Forwards require Duke Energy to either physically settle the transactions by issuing 2.6 million shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreements or net settle in whole or in part through the delivery or receipt of cash or shares. The settlement alternative was at Duke Energy's election. In December 2018, Duke Energy physically settled these equity forwards by delivering 2.6 million shares of common stock in exchange for net proceeds of approximately \$195 million.

Separately, in March 2018, Duke Energy marketed an equity offering of 21.3 million shares of common stock through an Underwriting Agreement with Credit Suisse Securities (USA) LLC, J.P. Morgan Securities LLC, Barclays Capital Inc. and Goldman Sachs & Co. LLC, as representatives of several underwriters, Credit Suisse Capital LLC and J.P. Morgan Securities LLC as Forward Sellers, and Credit Suisse Capital LLC and J.P. Morgan Chase Bank, National Association, acting as forward purchasers. In connection with the offering, Duke Energy entered into equity forward sale agreements with Credit Suisse Securities (USA) LLC as Agent for Credit Suisse Capital LLC and J.P. Morgan Chase Bank, National

Association. The sale price was \$75 per share less certain net adjustments for an initial forward price of \$74.07 per share. The Equity Forwards require Duke Energy to either physically settle the transactions by issuing 21.3 million shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreements, or net settle in whole or in part through the delivery or receipt of cash or shares. The settlement alternative was at Duke Energy's election. In June 2018, Duke Energy physically settled one-half of the equity forwards by delivering approximately 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$781 million. In December 2018, Duke Energy physically settled the remaining equity forward by delivering 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$766 million.

For the year ended December 31, 2018, Duke Energy issued 2.2 million shares through its DRIP with an increase in additional paid-in capital of approximately \$174 million.

In March 2016, Duke Energy marketed an equity offering of 10.6 million shares of common stock. In lieu of issuing equity at the time of the offering, Duke Energy entered into Equity Forwards with Barclays. The Equity Forwards required Duke Energy to either physically settle the transactions by issuing 10.6 million shares, or net settle in whole or in part through the delivery or receipt of cash or shares. On October 5, 2016, following the close of the Piedmont acquisition, Duke Energy physically settled the Equity Forwards in full by delivering 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$723 million. The net proceeds were used to finance a portion of the Piedmont acquisition. As a result of the acquisition, all of Piedmont's issued and outstanding stock became the issued and outstanding shares of a wholly owned subsidiary of Duke Energy. See Note 2 for additional information related to the Piedmont acquisition.

20. SEVERANCE

During 2018, Duke Energy reviewed its operations and identified opportunities for improvement to better serve its customers. This operational review included the company's workforce strategy and staffing levels to ensure the company is staffed with the right skillsets and number of teammates to execute the long-term vision for Duke Energy. As such, Duke Energy extended voluntary and involuntary severance benefits to certain employees in specific areas as a part of workforce planning and digital transformation efforts.

During 2016, Duke Energy and Piedmont announced severance plans covering certain eligible employees whose employment will be involuntarily terminated without cause as a result of Duke Energy's acquisition of Piedmont. These reductions continued into 2017 and were a part of the synergies expected to be realized with the acquisition. Refer to Note 2 for additional information on the Piedmont acquisition.

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Combined Notes to Consolidated Financial Statements – (Continued)

Severance benefit charges for initiatives and plans discussed above were accrued for a total of approximately 1,900 employees in 2018, 100 employees in 2017 and 600 employees in 2016. The following table presents the direct and allocated severance and related charges recorded by the Duke Energy Registrants. Amounts are included within Operation, maintenance and other on the Consolidated Statements of Operations.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Year Ended December 31, 2018	\$ 187	\$ 102	\$ 69	\$ 52	\$ 17	\$ 6	\$ 7	\$ 2
Year Ended December 31, 2017	15	2	2	1	1	—	1	9
Year Ended December 31, 2016	118	39	40	23	17	3	7	

(a) Piedmont severance benefit charges were \$3 million for the two months ended December 31, 2016, and \$19 million for the year ended October 31, 2016.

The table below presents the severance liability for past and ongoing severance plans including the plans described above.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2017	\$ 19	\$ 5	\$ 2	\$ 1	\$ —	\$ —	\$ —	\$ 5
Provision/Adjustments	200	98	50	40	10	2	2	—
Cash Reductions	(14)	(3)	(1)	—	(1)	—	—	(5)
Balance at December 31, 2018	\$ 205	\$ 100	\$ 51	\$ 41	\$ 9	\$ 2	\$ 2	\$ —

21. STOCK-BASED COMPENSATION

The 2015 Plan provides for the grant of stock-based compensation awards to employees and outside directors. The 2015 Plan reserves 10 million shares of common stock for issuance. Duke Energy has historically issued new shares upon exercising or vesting of share-based awards. However, Duke Energy may use a combination of new share issuances and open market repurchases for share-based awards that are exercised or vest in the future. Duke Energy has not determined with certainty the amount of such new share issuances or open market repurchases.

The following table summarizes the total expense recognized by the Duke Energy Registrants, net of tax, for stock-based compensation.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$ 56	\$ 43	\$ 35
Duke Energy Carolinas	20	15	12
Progress Energy	21	16	12
Duke Energy Progress	13	10	7
Duke Energy Florida	8	6	5
Duke Energy Ohio	4	3	2
Duke Energy Indiana	5	4	3
Piedmont ^(a)	3	3	—

(a) Piedmont's stock-based compensation costs were not material for the two months ended December 31, 2016. See discussion below for information on Piedmont's pre-merger stock-based compensation plans.

Duke Energy's pretax stock-based compensation costs, the tax benefit associated with stock-based compensation expense and stock-based compensation costs capitalized are included in the following table.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Restricted stock unit awards	\$ 43	\$ 41	\$ 36
Performance awards	35	27	19
Pretax stock-based compensation cost	\$ 78	\$ 68	\$ 55
Stock-based compensation costs capitalized	5	4	2
Stock-based compensation expense	\$ 73	\$ 64	\$ 53
Tax benefit associated with stock-based compensation expense	\$ 17	\$ 25	\$ 20

RESTRICTED STOCK UNIT AWARDS

RSU awards generally vest over periods from immediate to three years. Fair value amounts are based on the market price of Duke Energy's common stock on the grant date. The following table includes information related to RSU awards.

	Years Ended December 31,		
	2018	2017	2016
Shares awarded (in thousands)	649	583	684
Fair value (in millions)	\$ 49	\$ 47	\$ 52

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Combined Notes to Consolidated Financial Statements – (Continued)

The following table summarizes information about RSU awards outstanding.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2017	1,121	\$ 78
Granted	649	76
Vested	(545)	78
Forfeited	(72)	77
Outstanding at December 31, 2018	1,153	77
Restricted stock unit awards expected to vest	1,101	77

The total grant date fair value of shares vested during the years ended December 31, 2018, 2017 and 2016, was \$43 million, \$42 million and \$38 million, respectively. At December 31, 2018, Duke Energy had \$29 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 23 months.

PERFORMANCE AWARDS

Stock-based performance awards generally vest after three years if performance targets are met. The actual number of shares issued will range from zero to 200 percent of target shares, depending on the level of performance achieved.

Performance awards contain market conditions based on relative TSR compared to a predefined peer group, as well as a performance condition based on Duke Energy's cumulative adjusted EPS. Performance awards granted in 2018 and 2017 also contain a performance condition based on the total incident case rate, one of our key employee safety metrics.

The market condition component of Duke Energy's performance awards is valued using a path-dependent model that incorporates expected relative TSR into the fair value determination of Duke Energy's performance-based share awards. The model uses three-year historical volatilities and correlations for all companies in the predefined peer group, including Duke Energy, to simulate Duke Energy's relative TSR as of the end of the performance period. For each simulation, Duke Energy's relative TSR associated with the simulated stock price at the end of the performance period plus expected dividends within the period results in a value per share for the award portfolio. The average of these simulations is the expected portfolio value per share. Actual life to date results of Duke Energy's relative TSR for each grant are incorporated within the model. For performance awards granted in 2018, the model used a risk-free interest rate of 2.4 percent, which reflects the yield on three-year Treasury bonds as of the grant date, and an expected volatility of 16.0 percent based on Duke Energy's historical volatility over three years using daily stock prices.

The following table includes information related to stock-based performance awards.

	Years Ended December 31,		
	2018	2017	2016
Shares granted assuming target performance (in thousands)	372	461	338
Fair value (in millions)	\$ 27	\$ 37	\$ 25

The following table summarizes information about stock-based performance awards outstanding and assumes payout at the target level.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2017	1,065	\$ 79
Granted	372	73
Vested	(155)	81
Forfeited	(165)	80
Outstanding at December 31, 2018	1,117	77
Stock-based performance awards expected to vest	1,086	77

The total grant date fair value of shares vested during the years ended December 31, 2018, and 2016, was \$13 million and \$25 million, respectively. No performance awards vested during the year ended December 31, 2017. At December 31, 2018, Duke Energy had \$30 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 21 months.

PIEDMONT

Prior to Duke Energy's acquisition of Piedmont, Piedmont had an incentive compensation plan that had a series of three-year performance and RSU awards for eligible officers and other participants. The Merger Agreement provided for the conversion of the 2014-2016 and 2015-2017 performance awards and the nonvested 2016 RSU award into the right to receive \$60 cash per share upon the close of the transaction. In December 2015, Piedmont's board of directors authorized the accelerated vesting, payment and taxation of the 2014-2016 and 2015-2017 performance awards, as well as the 2016 RSU award, at the election of the participant. Substantially all participants elected to accelerate the settlement of these awards. As a result of the settlement of these awards, 194 thousand shares of Piedmont shares were issued to participants, net of shares withheld for applicable federal and state income taxes, at a closing price of \$56.85 and a fair value of \$11 million. The 2016-2018 performance award cycle was approved subsequent to the Merger Agreement and was converted into a Duke Energy RSU award at the consummation of the acquisition.

Piedmont's stock-based compensation costs and the tax benefit associated with stock-based compensation expense are included in the following table.

(in millions)	Year Ended October 31, 2016
Pretax stock-based compensation cost	\$ 16
Tax benefit associated with stock-based compensation expense	6
Net of tax stock-based compensation cost	\$ 10

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22. EMPLOYEE BENEFIT PLANS

DEFINED BENEFIT RETIREMENT PLANS

Duke Energy and certain subsidiaries maintain, and the Subsidiary Registrants participate in, qualified, non-contributory defined benefit retirement plans. The Duke Energy plans cover most employees using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage of current eligible earnings, age or age and years of service and interest credits. Certain employees are eligible for benefits that use a final average earnings formula. Under these final average earnings formulas, a plan participant accumulates a retirement benefit equal to the sum of percentages of their (i) highest three-year, four-year, or five-year average earnings, (ii) highest three-year, four-year, or five-year average earnings in excess of covered compensation per year of participation (maximum of 35 years) or (iii) highest three-year average earnings times years of participation in excess of 35 years. Duke Energy also maintains, and the Subsidiary Registrants participate in, non-qualified, non-contributory defined benefit retirement plans that cover certain executives. The qualified and non-qualified, non-contributory defined benefit plans are closed to new participants.

Duke Energy approved plan amendments to restructure its qualified non-contributory defined benefit retirement plans, effective January 1, 2018. The restructuring involved (i) the spin-off of the majority of inactive participants from two plans into a separate inactive plan and (ii) the merger of the active participant portions of such plans, along with a pension plan acquired as part of the Piedmont transaction, into a single active plan. Benefits offered to the plan participants remain unchanged except that the Piedmont plan's final average earnings formula was frozen as of December 31, 2017, and affected participants were moved into the active plan's cash balance formula. Actuarial gains and losses associated with the Inactive Plan will be amortized over the

remaining life expectancy of the inactive participants. The longer amortization period lowered Duke Energy's 2018 pretax qualified pension plan expense by approximately \$33 million.

Duke Energy uses a December 31 measurement date for its defined benefit retirement plan assets and obligations.

Net periodic benefit costs disclosed in the tables below represent the cost of the respective benefit plan for the periods presented prior to capitalization of amounts reflected as Net property, plant and equipment, on the Consolidated Balance Sheets. Only the service cost component of net periodic benefit costs is eligible to be capitalized. The remaining non-capitalized portions of net periodic benefit costs are classified as either: (1) service cost, which is recorded in Operations, maintenance and other on the Consolidated Statements of Operations; or as (2) components of non-service cost, which is recorded in Other income and expenses, net, on the Consolidated Statements of Operations. Amounts presented in the tables below for the Subsidiary Registrants represent the amounts of pension and other post-retirement benefit cost allocated by Duke Energy for employees of the Subsidiary Registrants. Additionally, the Consolidated Statements of Operations of the Subsidiary Registrants also include allocated net periodic benefit costs for their proportionate share of pension and post-retirement benefit cost for employees of Duke Energy's shared services affiliate that provide support to the Subsidiary Registrants. However, in the tables below, these amounts are only presented within the Duke Energy column. These allocated amounts are included in the governance and shared service costs discussed in Note 13.

Duke Energy's policy is to fund amounts on an actuarial basis to provide assets sufficient to meet benefit payments to be paid to plan participants. Duke Energy does not anticipate making any contributions in 2019. The following table includes information related to the Duke Energy Registrants' contributions to its qualified defined benefit pension plans.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy	
							Indiana	Piedmont ^(a)
Contributions Made:								
2018	\$ 141	\$ 46	\$ 45	\$ 25	\$ 20	\$ —	\$ 8	\$ —
2017	19	—	—	—	—	4	—	11
2016	155	43	43	24	20	5	9	

(a) Piedmont contributed \$10 million to its U.S. qualified defined benefit pension plan during the two months ended December 31, 2016, and \$10 million for the year ended October 31, 2016.

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QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 182	\$ 58	\$ 51	\$ 29	\$ 22	\$ 5	\$ 11	\$ 7
Interest cost on projected benefit obligation	299	72	94	43	50	17	23	11
Expected return on plan assets	(559)	(147)	(178)	(85)	(91)	(28)	(42)	(22)
Amortization of actuarial loss	132	29	44	21	23	5	10	11
Amortization of prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(10)
Net periodic pension costs ^{(a)(b)}	\$ 22	\$ 4	\$ 8	\$ 6	\$ 3	\$ (1)	\$ —	\$ (3)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 159	\$ 48	\$ 45	\$ 26	\$ 19	\$ 4	\$ 9	\$ 10
Interest cost on projected benefit obligation	328	79	100	47	53	18	26	14
Expected return on plan assets	(545)	(142)	(167)	(82)	(85)	(27)	(42)	(24)
Amortization of actuarial loss	146	31	52	23	29	5	12	11
Amortization of prior service credit	(24)	(8)	(3)	(2)	(1)	(1)	(2)	(2)
Settlement charge	12	—	—	—	—	—	—	12
Other	8	2	2	1	1	—	1	1
Net periodic pension costs ^{(a)(b)}	\$ 84	\$ 10	\$ 29	\$ 13	\$ 16	\$ (1)	\$ 4	\$ 22

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy
Service cost	\$ 147	\$ 48	\$ 42	\$ 24	\$ 19	\$ 4	\$ 9	\$ 9
Interest cost on projected benefit obligation	335	86	106	49	55	19	28	28
Expected return on plan assets	(519)	(142)	(168)	(82)	(84)	(27)	(42)	(42)
Amortization of actuarial loss	134	33	51	23	29	4	11	11
Amortization of prior service credit	(17)	(8)	(3)	(2)	(1)	—	(1)	(1)
Settlement charge	3	—	—	—	—	—	—	—
Other	8	2	3	1	1	1	1	1
Net periodic pension costs ^{(a)(b)}	\$ 91	\$ 19	\$ 31	\$ 13	\$ 19	\$ 1	\$ 6	\$ 6

(a) Duke Energy amounts exclude \$5 million, \$7 million and \$8 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(b) Duke Energy Ohio amounts exclude \$2 million, \$3 million and \$4 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(in millions)	Piedmont	
	Two Months Ended December 31, 2016	Year Ended October 31, 2016
Service cost	\$ 2	\$ 11
Interest cost on projected benefit obligation	2	9
Expected return on plan assets	(4)	(24)
Amortization of actuarial loss	2	8
Amortization of prior service credit	(1)	(2)
Settlement charge	3	—
Net periodic pension costs	\$ 4	\$ 2

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Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 298	\$ 170	\$ 40	\$ 31	\$ 9	\$ 10	\$ 30	\$ 8
Accumulated other comprehensive loss (income)								
Deferred income tax expense	\$ (2)	—	1	—	—	—	—	—
Amortization of prior year service credit	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	10	—	(4)	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 9	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net (decrease) increase	\$ (212)	\$ (70)	\$ (49)	\$ (37)	\$ (11)	\$ 9	\$ (19)	\$ (64)
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ —	\$ —	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —
Prior year service credit arising during the year	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	(7)	—	(7)	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ (6)	\$ —	\$ (4)	\$ —	\$ —	\$ —	\$ —	\$ —

Piedmont's regulatory asset net increase was \$34 million and \$35 million for the two months ended December 31, 2016, and for the year ended October 31, 2016, respectively.

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 8,448	\$ 2,029	\$ 2,637	\$ 1,211	\$ 1,410	\$ 479	\$ 669	\$ 313
Service cost	174	56	49	28	21	5	10	7
Interest cost	299	72	94	43	50	17	23	11
Actuarial gain	(485)	(44)	(204)	(87)	(114)	(29)	(29)	(18)
Transfers	—	—	—	—	—	—	—	(16)
Benefits paid	(567)	(159)	(143)	(70)	(72)	(37)	(55)	(33)
Obligation at measurement date	\$ 7,869	\$ 1,954	\$ 2,433	\$ 1,125	\$ 1,295	\$ 435	\$ 618	\$ 264
Accumulated Benefit Obligation at measurement date	\$ 7,818	\$ 1,954	\$ 2,404	\$ 1,125	\$ 1,265	\$ 425	\$ 614	\$ 264
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 9,003	\$ 2,372	\$ 2,814	\$ 1,366	\$ 1,429	\$ 458	\$ 684	\$ 368
Employer contributions	141	46	45	25	20	—	8	—
Actual return on plan assets	(344)	(91)	(110)	(53)	(55)	(16)	(26)	(14)
Benefits paid	(567)	(159)	(143)	(70)	(72)	(37)	(55)	(33)
Transfers	—	—	—	—	—	—	—	(16)
Plan assets at measurement date	\$ 8,233	\$ 2,168	\$ 2,606	\$ 1,268	\$ 1,322	\$ 405	\$ 611	\$ 305
Funded status of plan	\$ 364	\$ 214	\$ 173	\$ 143	\$ 27	\$ (30)	\$ (7)	\$ 41

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 8,131	\$ 1,952	\$ 2,512	\$ 1,158	\$ 1,323	\$ 447	\$ 658	\$ 344
Service cost	159	48	45	26	19	4	9	10
Interest cost	328	79	100	47	53	18	26	14
Actuarial loss	455	68	158	57	99	35	26	38
Transfers	—	27	(32)	(2)	(15)	12	—	—
Plan amendments	(61)	—	—	—	—	—	—	(61)
Benefits paid	(537)	(145)	(146)	(75)	(69)	(37)	(50)	(5)
Benefits paid — settlements	(27)	—	—	—	—	—	—	(27)
Obligation at measurement date	\$ 8,448	\$ 2,029	\$ 2,637	\$ 1,211	\$ 1,410	\$ 479	\$ 669	\$ 313
Accumulated Benefit Obligation at measurement date	\$ 8,369	\$ 2,029	\$ 2,601	\$ 1,211	\$ 1,375	\$ 468	\$ 652	\$ 313
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 8,531	\$ 2,225	\$ 2,675	\$ 1,290	\$ 1,352	\$ 428	\$ 657	\$ 346
Employer contributions	19	—	—	—	—	4	—	11
Actual return on plan assets	1,017	265	317	153	161	51	77	43
Benefits paid	(537)	(145)	(146)	(75)	(69)	(37)	(50)	(5)
Benefits paid — settlements	(27)	—	—	—	—	—	—	(27)
Transfers	—	27	(32)	(2)	(15)	12	—	—
Plan assets at measurement date	\$ 9,003	\$ 2,372	\$ 2,814	\$ 1,366	\$ 1,429	\$ 458	\$ 684	\$ 368
Funded status of plan	\$ 555	\$ 343	\$ 177	\$ 155	\$ 19	\$ (21)	\$ 15	\$ 55

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 433	\$ 214	\$ 242	\$ 143	\$ 96	\$ 24	\$ 39	\$ 41
Noncurrent pension liability ^(b)	\$ 69	\$ —	\$ 69	\$ —	\$ 69	\$ 54	\$ 46	\$ —
Net asset (liability) recognized	\$ 364	\$ 214	\$ 173	\$ 143	\$ 27	\$ (30)	\$ (7)	\$ 41
Regulatory assets	\$ 2,184	\$ 576	\$ 796	\$ 372	\$ 424	\$ 100	\$ 182	\$ 81
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (43)	\$ —	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(4)	—	—	—	—	—	—	—
Net actuarial loss	126	—	5	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 79	\$ —	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 97	\$ 22	\$ 37	\$ 13	\$ 24	\$ 3	\$ 5	\$ 7
Unrecognized prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(9)

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 680	\$ 343	\$ 245	\$ 155	\$ 87	\$ 8	\$ 16	\$ 55
Noncurrent pension liability ^(b)	\$ 125	\$ —	\$ 68	\$ —	\$ 68	\$ 29	\$ 1	\$ —
Net asset recognized	\$ 555	\$ 343	\$ 177	\$ 155	\$ 19	\$ (21)	\$ 15	\$ 55
Regulatory assets	\$ 1,886	\$ 406	\$ 756	\$ 341	\$ 415	\$ 90	\$ 152	\$ 73
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (41)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(5)	—	—	—	—	—	—	—
Net actuarial loss	116	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 70	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 132	\$ 29	\$ 44	\$ 21	\$ 23	\$ 5	\$ 7	\$ 11
Unrecognized prior service credit	\$ (32)	\$ (8)	\$ (3)	\$ (2)	\$ (1)	\$ —	\$ (2)	\$ (9)

(a) Included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.
(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2018				
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Projected benefit obligation	\$ 679	\$ 679	\$ 679	\$ 123	\$ 203
Accumulated benefit obligation	651	651	651	115	199
Fair value of plan assets	610	610	610	69	159

(in millions)	December 31, 2017			
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio
Projected benefit obligation	\$ 1,386	\$ 718	\$ 718	\$ 337
Accumulated benefit obligation	1,326	683	683	326
Fair value of plan assets	1,260	650	650	308

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period for participants in active plans and life expectancy of participants in inactive plans is 13 years for Duke Energy and Duke Energy Progress, 12 years for Duke Energy Carolinas, Progress Energy, and Duke Energy Florida, 14 years for Duke Energy Ohio and Duke Energy Indiana, and 10 years for Piedmont.

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Combined Notes to Consolidated Financial Statements – (Continued)

The following tables present the assumptions or range of assumptions used for pension benefit accounting.

	December 31,		
	2018	2017	2016
Benefit Obligations			
Discount rate	4.30%	3.60%	4.10%
Salary increase	3.50% – 4.00%	3.50% – 4.00%	4.00% – 4.50%
Net Periodic Benefit Cost			
Discount rate	3.60%	4.10%	4.40%
Salary increase	3.50% – 4.00%	4.00% – 4.50%	4.00% – 4.40%
Expected long-term rate of return on plan assets	6.50%	6.50% – 6.75%	6.50% – 6.75%

	Piedmont	
	Two Months Ended	Year Ended
	December 31, 2016	October 31, 2016
Benefit Obligations		
Discount rate	4.10%	3.80%
Salary increase	4.50%	4.05%
Net Periodic Benefit Cost		
Discount rate	3.80%	4.34%
Salary increase	4.05%	4.07%
Expected long-term rate of return on plan assets	6.75%	7.25%

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Years ending December 31,							
2019	\$ 662	\$ 210	\$ 179	\$ 105	\$ 73	\$ 33	\$ 47	\$ 20
2020	651	177	171	90	80	37	51	24
2021	663	182	177	95	81	37	51	23
2022	662	189	179	94	84	37	49	22
2023	655	185	181	95	85	35	47	22
2024-2028	2,993	794	902	451	447	158	217	96

NON-QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in millions)	Year Ended December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Service cost	\$ 2	\$ 1	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	12	—	4	1	2
Amortization of actuarial loss	8	—	2	1	1
Amortization of prior service credit	(2)	—	—	—	—
Net periodic pension costs	\$ 20	\$ 1	\$ 6	\$ 2	\$ 3

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Service cost	\$ 2	\$ 1	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	13	1	5	1	2
Amortization of actuarial loss	8	—	2	1	1
Amortization of prior service credit	(2)	—	—	—	—
Net periodic pension costs	\$ 21	\$ 2	\$ 7	\$ 2	\$ 3

(in millions)	Year Ended December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Service cost	\$ 2	\$ —	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	14	1	5	1	2
Amortization of actuarial loss	8	1	1	1	1
Amortization of prior service credit	(1)	—	—	—	—
Net periodic pension costs	\$ 23	\$ 2	\$ 6	\$ 2	\$ 3

(in millions)	Piedmont	
	Year Ended	
	October 31, 2016	
Amortization of prior service cost	\$ —	
Settlement charge	1	
Net periodic pension costs	\$ 1	

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Regulatory assets, net (decrease) increase	\$ (16)	\$ 1	\$ (6)	\$ (3)	\$ (3)
Accumulated other comprehensive (income) loss					
Deferred income tax benefit	\$ 1	\$ —	\$ 1	\$ —	\$ —
Actuarial gain arising during the year	(4)	—	(3)	—	—
Net amount recognized in accumulated other comprehensive loss (income)	\$ (3)	\$ —	\$ (2)	\$ —	\$ —

(in millions)	Year Ended December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Regulatory assets, net increase (decrease)	\$ 5	\$ (1)	\$ 3	\$ 1	\$ 2
Accumulated other comprehensive (income) loss					
Prior service credit arising during the year	\$ (1)	\$ —	\$ —	\$ —	\$ —
Actuarial loss arising during the year	2	—	—	—	—
Net amount recognized in accumulated other comprehensive loss (income)	\$ 1	\$ —	\$ —	\$ —	\$ —

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Combined Notes to Consolidated Financial Statements – (Continued)

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Service cost	2	1	—	—	—	—	—	—
Interest cost	12	—	4	1	2	—	—	—
Actuarial gain	(17)	—	(6)	(2)	(3)	(1)	—	(1)
Benefits paid	(24)	(1)	(8)	(3)	(3)	—	—	—
Obligation at measurement date	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3	\$ 3
Accumulated Benefit Obligation at measurement date	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3	\$ 3
Change in Fair Value of Plan Assets								
Benefits paid	\$ (24)	\$ (1)	\$ (8)	\$ (3)	\$ (3)	\$ —	\$ —	\$ —
Employer contributions	24	1	8	3	3	—	—	—
Plan assets at measurement date	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4	\$ 3	\$ 4
Service cost	2	1	—	—	—	—	—	—
Interest cost	13	1	5	1	2	—	—	—
Actuarial loss (gain)	15	—	5	4	2	—	—	—
Benefits paid	(31)	(2)	(8)	(3)	(3)	—	—	—
Obligation at measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Accumulated Benefit Obligation at measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Change in Fair Value of Plan Assets								
Benefits paid	\$ (31)	\$ (2)	\$ (8)	\$ (3)	\$ (3)	\$ —	\$ —	\$ —
Employer contributions	31	2	8	3	3	—	—	—
Plan assets at measurement date	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

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Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2018							Piedmont
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Current pension liability ^(a)	\$ 21	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	\$ —
Noncurrent pension liability ^(b)	283	12	98	28	40	3	3	3
Total accrued pension liability	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3	\$ 3
Regulatory assets	\$ 62	\$ 5	\$ 15	\$ 5	\$ 10	\$ 1	\$ —	\$ 1
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (3)	\$ —	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(1)	—	—	—	—	—	—	—
Net actuarial loss	8	—	6	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 4	\$ —	\$ 4	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 6	\$ —	\$ 2	\$ 1	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(2)	—	—	—	—	—	—	—

(in millions)	December 31, 2017							Piedmont
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Current pension liability ^(a)	\$ 23	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	\$ —
Noncurrent pension liability ^(b)	308	12	108	32	44	4	3	4
Total accrued pension liability	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Regulatory assets	\$ 78	\$ 4	\$ 21	\$ 8	\$ 13	\$ 1	\$ —	\$ 1
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (4)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(1)	—	—	—	—	—	—	—
Net actuarial loss	12	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 7	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 8	\$ —	\$ 2	\$ 1	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

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Combined Notes to Consolidated Financial Statements – (Continued)

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Projected benefit obligation	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3
Accumulated benefit obligation	304	14	106	31	43	3	3	3

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Projected benefit obligation	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3
Accumulated benefit obligation	331	14	116	35	47	4	3	4

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period of active covered employees is 10 years for Duke Energy, 13 years for Progress Energy, 11 years for Duke Energy Progress, 15 years for Duke Energy Florida, eight years for Duke Energy Carolinas, Duke Energy Ohio, Duke Energy Indiana and Piedmont. The following tables present the assumptions used for pension benefit accounting.

	December 31,		
	2018	2017	2016
Benefit Obligations			
Discount rate	4.30%	3.60%	4.10%
Salary increase	3.50% – 4.00%	3.50% – 4.00%	4.40%
Net Periodic Benefit Cost			
Discount rate	3.60%	4.10%	4.40%
Salary increase	3.50% – 4.00%	4.40%	4.40%

	Piedmont	
	Two Months Ended	Year Ended
	December 31, 2016	October 31, 2016
Benefit Obligations		
Discount rate	4.10%	3.80%
Net Periodic Benefit Cost		
Discount rate	3.80%	3.85%

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Combined Notes to Consolidated Financial Statements – (Continued)

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2019	\$ 22	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	\$ —
2020	21	1	8	2	3	—	—	—
2021	23	1	8	2	3	—	—	—
2022	25	1	8	2	3	—	—	—
2023	25	3	7	2	3	—	—	—
2024-2028	125	10	37	11	15	1	1	2

OTHER POST-RETIREMENT BENEFIT PLANS

Duke Energy provides, and the Subsidiary Registrants participate in, some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans. The health care benefits include medical, dental and prescription drug coverage and are subject to certain limitations, such as deductibles and copayments.

Duke Energy did not make any pre-funding contributions to its other post-retirement benefit plans during the years ended December 31, 2018, 2017 or 2016.

Components of Net Periodic Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 6	\$ 1	\$ 1	\$ —	\$ 1	\$ 1	\$ 1	\$ 1
Interest cost on accumulated post-retirement benefit obligation	28	7	12	6	6	1	3	1
Expected return on plan assets	(13)	(8)	—	—	—	—	—	(2)
Amortization of actuarial loss	6	3	1	1	—	—	4	—
Amortization of prior service credit	(19)	(5)	(8)	(1)	(7)	(1)	(1)	(2)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ 8	\$ (2)	\$ 6	\$ 6	\$ —	\$ 1	\$ 7	\$ (2)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 4	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 1
Interest cost on accumulated post-retirement benefit obligation	34	8	13	7	6	1	3	1
Expected return on plan assets	(14)	(8)	—	—	—	—	(1)	(2)
Amortization of actuarial loss (gain)	10	(2)	21	12	9	(2)	(1)	1
Amortization of prior service credit	(115)	(10)	(84)	(54)	(30)	—	(1)	—
Curtailment credit ^(c)	(30)	(4)	(16)	—	(16)	(2)	(2)	—
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (111)	\$ (15)	\$ (66)	\$ (35)	\$ (31)	\$ (3)	\$ (2)	\$ 1

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Service cost	\$ 3	\$ 1	\$ 1	\$ —	\$ 1	\$ —	\$ —
Interest cost on accumulated post-retirement benefit obligation	35	8	15	8	7	1	4
Expected return on plan assets	(12)	(8)	—	—	—	—	(1)
Amortization of actuarial loss (gain)	6	(3)	22	13	9	(2)	(1)
Amortization of prior service credit	(141)	(14)	(103)	(68)	(35)	—	(1)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (109)	\$ (16)	\$ (65)	\$ (47)	\$ (18)	\$ (1)	\$ 1

(a) Duke Energy amounts exclude \$7 million, \$7 million and \$8 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(b) Duke Energy Ohio amounts exclude \$2 million, \$2 million and \$2 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(c) Curtailment credit resulted from a reduction in average future service of plan participants due to a plan amendment.

(in millions)	Piedmont
	Year Ended October 31, 2016
Service cost	\$ 1
Interest cost on projected benefit obligation	1
Expected return on plan assets	(2)
Amortization of actuarial loss	1
Net periodic pension costs	\$ 1

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 137	\$ —	\$ 133	\$ 84	\$ 49	\$ —	\$ (5)	\$ 4
Regulatory liabilities, net increase (decrease)	\$ 154	\$ (6)	\$ 149	\$ 93	\$ 56	\$ 2	\$ 3	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year actuarial gain	1	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 71	\$ —	\$ 81	\$ 42	\$ 39	\$ —	\$ (5)	\$ (11)
Regulatory liabilities, net increase (decrease)	\$ (27)	\$ (2)	\$ —	\$ —	\$ —	\$ (3)	\$ (7)	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year prior service credit	3	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 2	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

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Combined Notes to Consolidated Financial Statements – (Continued)

Piedmont's regulatory assets net decreased \$1 million for the two months ended December 31, 2016, and increased \$2 million for the year ended October 31, 2016.

Reconciliation of Funded Status to Accrued Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2018							Piedmont
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 813	\$ 189	\$ 342	\$ 184	\$ 156	\$ 30	\$ 78	\$ 32
Service cost	6	1	1	—	1	1	1	1
Interest cost	28	7	12	6	6	1	3	1
Plan participants' contributions	18	3	6	4	3	1	2	—
Actuarial gains	(51)	(8)	(23)	(9)	(13)	(2)	(5)	(1)
Transfers	—	—	—	—	—	—	—	(1)
Benefits paid	(86)	(18)	(35)	(19)	(16)	(2)	(12)	(2)
Accumulated post-retirement benefit obligation at measurement date	\$ 728	\$ 174	\$ 303	\$ 166	\$ 137	\$ 29	\$ 67	\$ 30
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 225	\$ 133	\$ —	\$ —	\$ —	\$ 7	\$ 11	\$ 31
Actual return on plan assets	(8)	(5)	—	—	—	—	—	(1)
Benefits paid	(86)	(18)	(35)	(19)	(16)	(2)	(12)	(2)
Employer contributions	46	2	29	15	13	2	4	1
Plan participants' contributions	18	3	6	4	3	1	2	—
Plan assets at measurement date	\$ 195	\$ 115	\$ —	\$ —	\$ —	\$ 8	\$ 5	\$ 29
Funded status of plan	\$ (533)	\$ (59)	\$ (303)	\$ (166)	\$ (137)	\$ (21)	\$ (62)	\$ (1)
Year Ended December 31, 2017								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 868	\$ 201	\$ 357	\$ 191	\$ 164	\$ 32	\$ 83	\$ 39
Service cost	4	1	—	—	—	—	—	1
Interest cost	34	8	13	7	6	1	3	—
Plan participants' contributions	17	3	6	3	3	1	2	—
Actuarial losses (gains)	4	(3)	4	1	3	—	3	1
Transfers	—	2	(1)	—	(1)	1	—	—
Plan amendments	(28)	(5)	(3)	(1)	(2)	(2)	(2)	(9)
Benefits paid	(86)	(18)	(34)	(17)	(17)	(3)	(11)	(1)
Accumulated post-retirement benefit obligation at measurement date	\$ 813	\$ 189	\$ 342	\$ 184	\$ 156	\$ 30	\$ 78	\$ 32
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 244	\$ 137	\$ 1	\$ —	\$ —	\$ 7	\$ 22	\$ 29
Actual return on plan assets	25	15	1	—	—	2	1	3
Benefits paid	(86)	(18)	(34)	(17)	(17)	(3)	(11)	(1)
Employer contributions (reimbursements)	25	(4)	26	14	14	—	(3)	—
Plan participants' contributions	17	3	6	3	3	1	2	—
Plan assets at measurement date	\$ 225	\$ 133	\$ —	\$ —	\$ —	\$ 7	\$ 11	\$ 31
Funded status of plan	\$ (588)	\$ (56)	\$ (342)	\$ (184)	\$ (156)	\$ (23)	\$ (67)	\$ (1)

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Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 8	\$ —	\$ 5	\$ 3	\$ 2	\$ 2	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	525	59	298	163	135	19	62	1
Total accrued post-retirement liability	\$ 533	\$ 59	\$ 303	\$ 166	\$ 137	\$ 21	\$ 62	\$ 1
Regulatory assets	\$ 262	\$ —	\$ 262	\$ 164	\$ 98	\$ —	\$ 41	\$ —
Regulatory liabilities	\$ 301	\$ 38	\$ 149	\$ 93	\$ 56	\$ 18	\$ 67	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(9)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (8)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 4	\$ 2	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —
Unrecognized prior service credit	(19)	(5)	(7)	(1)	(6)	(1)	(1)	(2)

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 36	\$ —	\$ 29	\$ 15	\$ 14	\$ 2	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	552	56	313	169	142	21	67	1
Total accrued post-retirement liability	\$ 588	\$ 56	\$ 342	\$ 184	\$ 156	\$ 23	\$ 67	\$ 1
Regulatory assets	\$ 125	\$ —	\$ 129	\$ 80	\$ 49	\$ —	\$ 46	\$ (4)
Regulatory liabilities	\$ 147	\$ 44	\$ —	\$ —	\$ —	\$ 16	\$ 64	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 4	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(10)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (8)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss (gain)	\$ 5	\$ 3	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(19)	(5)	(7)	(1)	(6)	(1)	(1)	(2)

(a) included in Other within Current Liabilities on the Consolidated Balance Sheets.

(b) included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

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Combined Notes to Consolidated Financial Statements – (Continued)

Assumptions Used for Other Post-Retirement Benefits Accounting

The discount rate used to determine the current year other post-retirement benefits obligation and following year's other post-retirement benefits expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected. The average remaining service period of active covered employees is nine years for Duke Energy, eight years for Duke Energy Carolinas, seven years for Duke Energy Florida, Duke Energy Ohio, and Piedmont, and six years for Progress Energy, Duke Energy Progress, and Duke Energy Indiana.

The following tables present the assumptions used for other post-retirement benefits accounting.

	December 31,		
	2018	2017	2016
Benefit Obligations			
Discount rate	4.30%	3.60%	4.10%
Net Periodic Benefit Cost			
Discount rate	3.60%	4.10%	4.40%
Expected long-term rate of return on plan assets	6.50%	6.50%	6.50%
Assumed tax rate	35%	35%	35%

	Piedmont	
	Two Months Ended	Year Ended
	December 31, 2016	October 31, 2016
Benefit Obligations		
Discount rate	4.10%	3.80%
Net Periodic Benefit Cost		
Discount rate	3.80%	4.38%
Expected long-term rate of return on plan assets	6.75%	7.25%

Assumed Health Care Cost Trend Rate

	December 31,	
	2018	2017
Health care cost trend rate assumed for next year	6.50%	7.00%
Rate to which the cost trend is assumed to decline (the ultimate trend rate)	4.75%	4.75%
Year that rate reaches ultimate trend	2024	2024

Sensitivity to Changes in Assumed Health Care Cost Trend Rates

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
1-Percentage Point Increase								
Effect on total service and interest costs	\$ 1	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —
Effect on post-retirement benefit obligation	22	5	9	5	4	1	2	1
1-Percentage Point Decrease								
Effect on total service and interest costs	(1)	—	(1)	(1)	—	—	—	—
Effect on post-retirement benefit obligation	(20)	(5)	(8)	(5)	(4)	(1)	(2)	(1)

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Combined Notes to Consolidated Financial Statements – (Continued)

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2019	\$ 81	\$19	\$ 30	\$16	\$14	\$ 3	\$ 9	\$ 2
2020	75	18	29	15	13	3	8	2
2021	71	18	28	15	13	3	7	2
2022	68	17	27	14	12	3	7	3
2023	64	16	26	14	12	3	6	3
2024–2028	266	64	109	59	50	11	26	12

PLAN ASSETS

Description and Allocations

Duke Energy Master Retirement Trust

Assets for both the qualified pension and other post-retirement benefits are maintained in the Duke Energy Master Retirement Trust. Qualified pension and other post-retirement assets related to Piedmont were transferred into the Duke Energy Master Retirement Trust during 2017. Approximately 98 percent of the Duke Energy Master Retirement Trust assets were allocated to qualified pension plans and approximately 2 percent were allocated to other post-retirement plans (comprised of 401(h) accounts), as of December 31, 2018, and 2017. The investment objective of the Duke Energy Master Retirement Trust is to invest in a diverse portfolio of assets that is expected to generate positive surplus return over time (i.e. asset growth greater than liability growth) subject to a prudent level of portfolio risk, for the purpose of enhancing the security of benefits for plan participants.

As of December 31, 2018, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.85 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension plan liability. Real assets, return seeking fixed income, hedge funds and other global securities are held for diversification. Investments

within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers or investments.

Effective January 1, 2019, the target asset allocation for the Duke Energy Retirement Master Trust is 58 percent liability hedging assets and 42 percent return-seeking assets. Duke Energy periodically reviews its asset allocation targets, and over time, as the funded status of the benefit plans increase, the level of asset risk relative to plan liabilities may be reduced to better manage Duke Energy's benefit plan liabilities and reduce funded status volatility.

The Duke Energy Master Retirement Trust is authorized to engage in the lending of certain plan assets. Securities lending is an investment management enhancement that utilizes certain existing securities of the Duke Energy Master Retirement Trust to earn additional income. Securities lending involves the loaning of securities to approved parties. In return for the loaned securities, the Duke Energy Master Retirement Trust receives collateral in the form of cash and securities as a safeguard against possible default of any borrower on the return of the loan under terms that permit the Duke Energy Master Retirement Trust to sell the securities. The Duke Energy Master Retirement Trust mitigates credit risk associated with securities lending arrangements by monitoring the fair value of the securities loaned, with additional collateral obtained or refunded as necessary. The fair value of securities on loan was approximately \$154 million and \$195 million at December 31, 2018, and 2017, respectively. Cash and securities obtained as collateral exceeded the fair value of the securities loaned at December 31, 2018, and 2017, respectively. Securities lending income earned by the Duke Energy Master Retirement Trust was immaterial for the years ended December 31, 2018, 2017 and 2016, respectively.

Qualified pension and other post-retirement benefits for the Subsidiary Registrants are derived from the Duke Energy Master Retirement Trust, as such, each are allocated their proportionate share of the assets discussed below.

The following table includes the target asset allocations by asset class at December 31, 2018, and the actual asset allocations for the Duke Energy Master Retirement Trust.

	Target Allocation	Actual Allocation at December 31,	
		2018	2017
U.S. equity securities	10%	11%	11%
Non-U.S. equity securities	8%	8%	8%
Global equity securities	10%	10%	10%
Global private equity securities	3%	2%	2%
Debt securities	63%	63%	63%
Hedge funds	2%	2%	2%
Real estate and cash	2%	2%	2%
Other global securities	2%	2%	2%
Total	100%	100%	100%

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Other post-retirement assets

Duke Energy's other post-retirement assets are comprised of VEBA trusts and 401(h) accounts held within the Duke Energy Master Retirement Trust. Duke Energy's investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants.

The following table presents target and actual asset allocations for the VEBA trusts at December 31, 2018.

	Target Allocation	Actual Allocation at December 31,	
		2018	2017
U.S. equity securities	32%	43%	41%
Non-U.S. equity securities	6%	8%	8%
Real estate	2%	2%	2%
Debt securities	45%	40%	36%
Cash	15%	7%	13%
Total	100%	100%	100%

Fair Value Measurements

Duke Energy classifies recurring and non-recurring fair value measurements based on the fair value hierarchy as discussed in Note 16.

Valuation methods of the primary fair value measurements disclosed below are as follows:

Investments in equity securities

Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the reporting period. Principal active markets for equity prices include published exchanges such as NASDAQ and NYSE. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. Prices have not been adjusted to reflect after-hours market activity. The majority of investments in equity securities are valued using Level 1 measurements. When the price of an institutional commingled fund is unpublished, it is not categorized in the fair value hierarchy, even though the funds are readily available at the fair value.

Investments in corporate debt securities and U.S. government securities

Most debt investments are valued based on a calculation using interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. Most debt valuations are Level 2 measurements. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3. U.S. Treasury debt is typically Level 2.

Investments in short-term investment funds

Investments in short-term investment funds are valued at the net asset value of units held at year end and are readily redeemable at the measurement date. Investments in short-term investment funds with published prices are valued as Level 1. Investments in short-term investment funds with unpublished prices are valued as Level 2.

Investments in real estate limited partnerships

Investments in real estate limited partnerships are valued by the trustee at each valuation date (monthly). As part of the trustee's valuation process, properties are externally appraised generally on an annual basis, conducted by reputable, independent appraisal firms, and signed by appraisers that are members of the Appraisal Institute, with the professional designation MAI. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. There are three valuation techniques that can be used to value investments in real estate assets: the market, income or cost approach. The appropriateness of each valuation technique depends on the type of asset or business being valued. In addition, the trustee may cause additional appraisals to be performed as warranted by specific asset or market conditions. Property valuations and the salient valuation-sensitive assumptions of each direct investment property are reviewed by the trustee quarterly and values are adjusted if there has been a significant change in circumstances related to the investment property since the last valuation. Value adjustments for interim capital expenditures are only recognized to the extent that the valuation process acknowledges a corresponding increase in fair value. An independent firm is hired to review and approve quarterly direct real estate valuations. Key inputs and assumptions used to determine fair value includes among others, rental revenue and expense amounts and related revenue and expense growth rates, terminal capitalization rates and discount rates. Development investments are valued using cost incurred to date as a primary input until substantive progress is achieved in terms of mitigating construction and leasing risk at which point a discounted cash flow approach is more heavily weighted. Key inputs and assumptions in addition to those noted above used to determine the fair value of development investments include construction costs and the status of construction completion and leasing. Investments in real estate limited partnerships are valued at net asset value of units held at year end and are not readily redeemable at the measurement date. Investments in real estate limited partnerships are not categorized within the fair value hierarchy.

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Duke Energy Master Retirement Trust

The following tables provide the fair value measurement amounts for the Duke Energy Master Retirement Trust qualified pension and other post-retirement assets.

(in millions)	December 31, 2018				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized ^(b)
Equity securities	\$2,373	\$1,751	\$ —	\$ —	\$ 622
Corporate debt securities	4,054	—	4,054	—	—
Short-term investment funds	363	279	84	—	—
Partnership interests	120	—	—	—	120
Hedge funds	226	—	—	—	226
Real estate limited partnerships	144	—	—	—	144
U.S. government securities	961	—	961	—	—
Guaranteed investment contracts	27	—	—	27	—
Governments bonds – foreign	30	—	30	—	—
Cash	28	28	—	—	—
Net pending transactions and other investments	(2)	(6)	4	—	—
Total assets^(a)	\$8,324	\$2,052	\$5,133	\$ 27	\$ 1,112

(a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 27 percent, 31 percent, 15 percent, 16 percent, 5 percent, 7 percent, and 4 percent, respectively, of the Duke Energy Master Retirement Trust at December 31, 2018. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.

(b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

(in millions)	December 31, 2017				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized ^(b)
Equity securities	\$2,823	\$1,976	\$ —	\$ —	\$ 847
Corporate debt securities	4,694	—	4,694	—	—
Short-term investment funds	246	192	54	—	—
Partnership interests	137	—	—	—	137
Hedge funds	226	—	—	—	226
Real estate limited partnerships	135	—	—	—	135
U.S. government securities	762	—	762	—	—
Guaranteed investment contracts	28	—	—	28	—
Governments bonds – foreign	38	—	38	—	—
Cash	6	6	—	—	—
Government and commercial mortgage backed securities	2	—	2	—	—
Net pending transactions and other investments	17	15	2	—	—
Total assets^(a)	\$9,114	\$2,189	\$5,552	\$ 28	\$ 1,345

(a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 27 percent, 30 percent, 15 percent, 15 percent, 5 percent, 8 percent, and 4 percent, respectively, of the Duke Energy Master Retirement Trust and Piedmont's Pension assets at December 31, 2017. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.

(b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

The following table provides a reconciliation of beginning and ending balances of Duke Energy Master Retirement Trust qualified pension and other post-retirement assets at fair value on a recurring basis where the determination of fair value includes significant unobservable inputs (Level 3).

(in millions)	2018	2017 ^(a)
Balance at January 1	\$ 28	\$ 38
Sales	(1)	(2)
Total gains and other, net	—	1
Transfer of Level 3 assets to other classifications	—	(9)
Balance at December 31	\$ 27	\$ 28

(a) Balance at January 1 includes \$9 million associated with Piedmont pension assets.

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Combined Notes to Consolidated Financial Statements – (Continued)

Other post-retirement assets

The following tables provide the fair value measurement amounts for VEBA trust assets.

(in millions)	December 31, 2018	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 3	\$ 3
Real estate	1	1
Equity securities	25	25
Debt securities	20	20
Total assets	\$ 49	\$ 49

(in millions)	December 31, 2017	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 8	\$ 8
Real estate	1	1
Equity securities	28	28
Debt securities	21	21
Total assets	\$ 58	\$ 58

EMPLOYEE SAVINGS PLANS

Retirement Savings Plan

Duke Energy or its affiliates sponsor, and the Subsidiary Registrants participate in, employee savings plans that cover substantially all U.S. employees. Most employees participate in a matching contribution formula where Duke Energy provides a matching contribution generally equal to 100 percent of employee before-tax and Roth 401(k) contributions of up to 6 percent of eligible pay per pay period. Dividends on Duke Energy shares held by the savings plans

are charged to retained earnings when declared and shares held in the plans are considered outstanding in the calculation of basic and diluted EPS.

For new and rehired employees who are not eligible to participate in Duke Energy's defined benefit plans, an additional employer contribution of 4 percent of eligible pay per pay period, which is subject to a three-year vesting schedule, is provided to the employee's savings plan account. Certain Piedmont employees whose participation in a prior Piedmont defined benefit plan (that was frozen as of December 31, 2017) are eligible for employer transition credit contributions of 3 to 5 percent of eligible pay per period, for each pay period during the three-year period ending December 31, 2020.

The following table includes pretax employer matching contributions made by Duke Energy and expensed by the Subsidiary Registrants.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Years ended December 31,								
2018	\$213	\$68	\$58	\$40	\$19	\$4	\$10	\$12
2017	179	61	53	37	16	3	9	7
2016	169	57	50	35	15	3	8	

(a) Piedmont's pretax employer matching contributions were \$1 million and \$7 million during the two months ended December 31, 2016, and for the year ended October 31, 2016, respectively.

Money Purchase Pension Plan

Piedmont sponsored the MPP plan, which is a defined contribution pension plan that allowed employees to direct investments and assume risk of investment returns. Under the MPP plan, Piedmont annually deposited a percentage of each participant's pay into an account of the MPP plan. This contribution equaled 4 percent of the participant's eligible compensation plus an additional 4 percent of eligible compensation above the Social Security wage base up to the IRS compensation limit. The participant was vested in

MPP plan after three years of service. No contributions were made to the MPP plan during the two months ended December 31, 2016. Piedmont contributed \$2 million to the MPP plan during each of the years ended December 31, 2017, and October 31, 2016. Effective December 31, 2017, the MPP Plan was merged into the Retirement Savings Plan and the money purchase plan formula was discontinued. Beginning with the 2018 plan year, the former MPP Plan participants are eligible to receive the additional employer contribution under the Retirement Savings Plan, discussed above.

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23. INCOME TAXES

Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35 to 21 percent, limits interest deductions outside of regulated utility operations, requires the normalization of excess deferred taxes associated with property under the average rate assumption method as a prerequisite to qualifying for accelerated depreciation and repealed the federal manufacturing deduction. The Tax Act also repealed the corporate AMT and stipulates a refund of 50 percent of remaining AMT credit carryforwards (to the extent the credits exceed regular tax for the year) for tax years 2018, 2019 and 2020 with all remaining AMT credits to be refunded in tax year 2021.

On December 22, 2017, the SEC staff issued SAB 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act, which provides guidance on accounting for the Tax Act's impact. SAB 118 provides a measurement period, which in no case should extend beyond one year from the Tax Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Act under ASC Topic 740. In accordance with SAB 118, a company must reflect the income tax effects of the Tax Act in the reporting period in which the accounting under ASC Topic 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete, a company can determine a reasonable estimate for those effects and record a provisional estimate in the financial statements in the first reporting period in which a reasonable estimate can be determined.

As of December 31, 2018, the accounting for the effects of the Tax Act is complete. During the year ended December 31, 2018, Duke Energy recorded the following measurement period adjustments in accordance with SAB 118:

- Additional tax expense of \$23 million related to the completion of the analysis of Duke Energy's existing regulatory liability related to deferred taxes;
- A \$10 million tax benefit for the remeasurement of deferred tax assets and deferred tax liabilities primarily related to the guidance on bonus depreciation issued by the IRS in August 2018 affecting the computation of the Company's 2017 Federal income tax liability;

- Additional tax expense of \$7 million related to the portion of the deferred tax asset as of December 31, 2017, that represents nondeductible long-term incentives under the Tax Act's limitation on the deductibility of executive compensation; and
- During the fourth quarter of 2018, the Company released the \$76 million valuation allowance that it recorded in the first quarter of 2018 as a result of additional guidance published by the IRS that stated refundable AMT credits would not be subject to sequestration.
- The majority of Duke Energy's operations are regulated and it is expected that the Subsidiary Registrants will ultimately pass on the savings associated with the amount representing the remeasurement of deferred tax balances related to regulated operations to customers. For Duke Energy's regulated operations, where the reduction is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. During 2018, Duke Energy recorded an additional regulatory liability of \$83 million, representing the revaluation of those deferred tax balances. The Subsidiary Registrants continue to respond to requests from regulators in various jurisdictions to determine the timing and magnitude of savings they will pass on to customers.

In addition, during 2018 Duke Energy reclassified \$573 million of AMT credit carryforwards from noncurrent deferred tax liabilities to a current federal income tax receivable as the Company expects to receive this amount via a refund from the IRS in 2019, based on the expected filing of Duke Energy's 2018 income tax return in the second quarter of 2019.

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Combined Notes to Consolidated Financial Statements – (Continued)

Income Tax Expense

Components of Income Tax Expense

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current income taxes								
Federal	\$ (647)	\$ (8)	\$ (135)	\$ (71)	\$ (49)	\$ 20	\$ 29	\$ 67
State	(11)	6	(5)	(5)	(10)	(1)	3	1
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(655)	(2)	(140)	(76)	(59)	19	32	68
Deferred income taxes								
Federal	1,064	299	341	256	115	21	74	(36)
State	49	11	20	(17)	45	3	22	5
Total deferred income taxes^{(a)(b)}	1,113	310	361	239	160	24	96	(31)
Investment tax credit amortization	(10)	(5)	(3)	(3)	—	—	—	—
Income tax expense from continuing operations	448	303	218	160	101	43	128	37
Tax benefit from discontinued operations	(26)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 422	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37

(a) Includes benefits of NOL carryforwards and tax credit carryforwards of \$22 million at Duke Energy Carolinas, \$293 million at Progress Energy, \$59 million at Duke Energy Progress, \$219 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$21 million at Duke Energy Indiana and \$39 million at Piedmont. In addition, total deferred income taxes includes utilization of NOL carryforwards and tax credit carryforwards of \$18 million at Duke Energy.

(b) For the year ended December 31, 2018, the Company has revised the December 31, 2017, estimates of the income tax effects of the Tax Act, in accordance with SAB 118. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current income taxes								
Federal	\$ (247)	\$ 221	\$ (436)	\$ (95)	\$ (188)	\$ (37)	\$ 128	\$ (90)
State	4	20	(5)	2	(11)	2	21	(3)
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(240)	241	(441)	(93)	(199)	(35)	149	(93)
Deferred income taxes								
Federal	1,344	381	664	378	194	99	138	147
State	102	35	44	10	51	(4)	14	8
Total deferred income taxes^{(a)(b)}	1,446	416	708	388	245	95	152	155
Investment tax credit amortization	(10)	(5)	(3)	(3)	—	(1)	—	—
Income tax expense from continuing operations	1,196	652	264	292	46	59	301	62
Tax benefit from discontinued operations	(6)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,190	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62

(a) Includes utilization of NOL carryforwards and tax credit carryforwards of \$428 million at Duke Energy, \$74 million at Progress Energy, \$36 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$42 million at Duke Energy Indiana and \$79 million at Piedmont. In addition, total deferred income taxes includes benefits of NOL carryforwards and tax credit carryforwards of \$10 million at Duke Energy Carolinas and \$1 million at Duke Energy Progress.

(b) As a result of the Tax Act, Duke Energy's deferred tax assets and liabilities were revalued as of December 31, 2017. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

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(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Current income taxes							
Federal	\$ —	\$ 139	\$ 15	\$ (59)	\$ 76	\$ (7)	\$ 7
State	(15)	25	(19)	(25)	22	(13)	6
Foreign	2	—	—	—	—	—	—
Total current income taxes	(13)	164	(4)	(84)	98	(20)	13
Deferred income taxes							
Federal	1,064	430	486	350	199	88	202
State	117	45	50	40	25	11	11
Total deferred income taxes^(a)	1,181	475	536	390	224	99	213
Investment tax credit amortization	(12)	(5)	(5)	(5)	—	(1)	(1)
Income tax expense from continuing operations	1,156	634	527	301	322	78	225
Tax (benefit) expense from discontinued operations	(30)	—	1	—	—	(36)	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,126	\$ 634	\$ 528	\$ 301	\$ 322	\$ 42	\$ 225

(a) Includes benefits of NOL carryforwards and utilization of NOL and tax credit carryforwards of \$648 million at Duke Energy, \$4 million at Duke Energy Carolinas, \$190 million at Progress Energy, \$60 million at Duke Energy Progress, \$49 million at Duke Energy Florida, \$26 million at Duke Energy Ohio and \$58 million at Duke Energy Indiana.

(in millions)	Piedmont	
	Two Months Ended December 31, 2016	Year Ended October 31, 2016
Current income taxes		
Federal	\$ 4	\$ 27
State	(2)	12
Total current income taxes	2	39
Deferred income taxes		
Federal	24	79
State	6	6
Total deferred income taxes^(a)	30	85
Total income tax expense from continuing operations included in Consolidated Statements of Operations	\$ 32	\$ 124

(a) Includes benefits of NOL and tax carryforwards of \$17 million and \$91 million for the two months ended December 31, 2016, and the year ended October 31, 2016, respectively.

Duke Energy Income from Continuing Operations before Income Taxes

(in millions)	Years Ended December 31,		
	2018	2017	2016
Domestic ^(a)	\$ 3,018	\$ 4,207	\$ 3,689
Foreign	55	59	45
Income from continuing operations before income taxes	\$ 3,073	\$ 4,266	\$ 3,734

(a) Includes a \$16 million expense in 2017 related to the Tax Act impact on equity earnings included within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations.

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Taxes on Foreign Earnings

In February 2016, Duke Energy announced it had initiated a process to divest the International Disposal Group and, accordingly, no longer intended to indefinitely reinvest post-2014 undistributed foreign earnings. This change in the company's intent, combined with the extension of bonus depreciation by Congress in late 2015, allowed Duke Energy to more efficiently utilize foreign tax credits and reduce U.S. deferred tax liabilities associated with the historical unremitted foreign earnings by approximately \$95 million during the year ended December 31, 2016.

Due to the classification of the International Disposal Group as discontinued operations beginning in the fourth quarter of 2016, income tax amounts related to the International Disposal Group's foreign earnings are presented within Income (Loss) From Discontinued Operations, net of tax on the Consolidated Statements of Operations. In December 2016, Duke Energy closed on the sale of the International Disposal Group in two separate transactions to execute the divestiture. See Note 2 for additional information on the sale.

Statutory Rate Reconciliation

The following tables present a reconciliation of income tax expense at the U.S. federal statutory tax rate to the actual tax expense from continuing operations.

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Income tax expense, computed at the statutory rate of 21 percent	\$ 645	\$ 288	\$ 263	\$ 174	\$ 137	\$ 46	\$ 109	\$ 35
State income tax, net of federal income tax effect	30	14	13	(17)	28	2	20	4
Amortization of excess deferred income tax	(61)	—	(55)	(1)	(54)	(3)	(2)	—
AFUDC equity income	(42)	(15)	(22)	(12)	(10)	(2)	(2)	—
AFUDC equity depreciation	31	18	9	5	4	1	4	—
Renewable energy production tax credits	(129)	—	—	—	—	—	—	—
Other tax credits	(28)	(7)	(13)	(5)	(8)	(1)	(1)	(3)
Tax Act ^(a)	20	1	25	19	—	2	—	—
Other items, net	(18)	4	(2)	(3)	4	(2)	—	1
Income tax expense from continuing operations	\$ 448	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37
Effective tax rate	14.6%	22.1%	17.4%	19.3%	15.4%	19.6%	24.6%	22.3%

(a) For the year ended December 31, 2018, the Company revised the December 31, 2017 estimates of the income tax effects of the Tax Act, in accordance with SAB 118. Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal net operating losses, and valuation allowance on foreign tax credits.

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,493	\$ 653	\$ 536	\$ 353	\$ 265	\$ 88	\$ 229	\$ 70
State income tax, net of federal income tax effect	69	36	25	8	26	(1)	23	3
AFUDC equity income	(81)	(37)	(32)	(17)	(16)	(4)	(8)	—
Renewable energy production tax credits	(132)	—	—	—	—	—	—	—
Tax Act ^(a)	(112)	15	(246)	(40)	(226)	(23)	55	(12)
Tax true up	(52)	(24)	(19)	(13)	(7)	(5)	(6)	—
Other items, net	11	9	—	1	4	4	8	1
Income tax expense from continuing operations	\$ 1,196	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62
Effective tax rate	28.0%	34.9%	17.2%	29.0%	6.1%	23.4%	46.0%	30.8%

(a) Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related to abandoned or impaired assets, certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal net operating losses, and valuation allowance on foreign tax credits.

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(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,307	\$ 630	\$ 548	\$ 315	\$ 306	\$ 95	\$ 212
State income tax, net of federal income tax effect	64	46	20	10	30	(2)	11
AFUDC equity income	(70)	(36)	(26)	(17)	(9)	(2)	(6)
Renewable energy production tax credits	(97)	—	—	—	—	—	—
Audit adjustment	5	3	—	—	—	—	—
Tax true up	(14)	(14)	(11)	(3)	(9)	(16)	2
Other items, net	(39)	5	(4)	(4)	4	3	6
Income tax expense from continuing operations	\$ 1,156	\$ 634	\$ 527	\$ 301	\$ 322	\$ 78	\$ 225
Effective tax rate	31.0%	35.2%	33.7%	33.4%	36.9%	28.9%	37.1%

(in millions)	Piedmont	
	Two Months Ended	Year Ended October 31,
	December 31, 2016	2016
Income tax expense, computed at the statutory rate of 35 percent	\$ 30	\$ 111
State income tax, net of federal income tax effect	1	11
Other items, net	1	2
Income tax expense from continuing operations	\$ 32	\$ 124
Effective tax rate	37.2%	39.1%

Valuation allowances have been established for certain state NOL carryforwards and state income tax credits that reduce deferred tax assets to an amount that will be realized on a more-likely-than-not basis. The net change in the total valuation allowance is included in the State income tax, net of federal income tax effect in the above tables.

DEFERRED TAXES

Net Deferred Income Tax Liability Components

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 164	\$ 64	\$ 35	\$ 53	\$ —	\$ 17	\$ 6	\$ 17
Capital lease obligations	60	26	—	—	—	—	2	—
Pension, post-retirement and other employee benefits	347	24	110	47	58	16	24	(1)
Progress Energy merger purchase accounting adjustments ^(a)	483	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,580	257	693	215	363	42	237	110
Regulatory liabilities and deferred credits	—	—	—	—	—	56	—	48
Investments and other assets	—	—	—	—	—	18	—	16
Other	25	6	5	5	—	1	(1)	—
Valuation allowance	(484)	—	—	—	—	—	—	—
Total deferred income tax assets	5,175	377	843	320	421	150	268	190
Investments and other assets	(1,317)	(795)	(430)	(272)	(163)	—	(5)	—
Accelerated depreciation rates	(10,124)	(3,207)	(3,369)	(1,735)	(1,670)	(967)	(1,081)	(733)
Regulatory assets and deferred debits, net	(1,540)	(64)	(985)	(432)	(574)	—	(191)	—
Other	—	—	—	—	—	—	—	(8)
Total deferred income tax liabilities	(12,981)	(4,066)	(4,784)	(2,439)	(2,407)	(967)	(1,277)	(741)
Net deferred income tax liabilities	\$ (7,806)	\$ (3,689)	\$ (3,941)	\$ (2,119)	\$ (1,986)	\$ (817)	\$ (1,009)	\$ (551)

(a) Primarily related to capital lease obligations and debt fair value adjustments.

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The following table presents the expiration of tax credits and NOL carryforwards.

(in millions)	December 31, 2018	
	Amount	Expiration Year
Investment tax credits	\$ 1,614	2024 – 2038
Alternative minimum tax credits	574	Refundable by 2021
Federal NOL carryforwards ^{(a)(c)}	788	2022 – Indefinite
State NOL carryforwards and credits ^{(b)(e)}	301	2019 – Indefinite
Foreign NOL carryforwards ^(c)	12	2027 – 2037
Foreign Tax Credits ^(d)	1,271	2024 – 2027
Charitable contribution carryforwards	20	2019 – 2023
Total tax credits and NOL carryforwards	\$ 4,580	

- (a) A valuation allowance of \$4 million has been recorded on the Federal NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
(b) A valuation allowance of \$85 million has been recorded on the state NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
(c) A valuation allowance of \$12 million has been recorded on the foreign NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
(d) A valuation allowance of \$383 million has been recorded on the foreign tax credits, as presented in the Net Deferred Income Tax Liability Components table.
(e) Indefinite carryforward for Federal NOLs, and NOLs for states that have adopted the Tax Act's NOL provisions, generated in tax years beginning after December 31, 2017.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 143	\$ 33	\$ 78	\$ 23	\$ 49	\$ 11	\$ 6	\$ (5)
Capital lease obligations	49	14	—	—	—	—	2	—
Pension, post-retirement and other employee benefits	295	(17)	111	44	60	14	18	(4)
Progress Energy merger purchase accounting adjustments ^(a)	536	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,527	234	402	156	143	25	216	70
Regulatory liabilities and deferred credits	—	222	—	—	—	65	—	61
Investments and other assets	—	—	—	—	—	—	1	18
Other	73	10	1	4	—	—	—	—
Valuation allowance	(519)	—	(14)	—	—	—	—	—
Total deferred income tax assets	5,104	496	578	227	252	115	243	140
Investments and other assets	(1,419)	(849)	(470)	(289)	(187)	—	(14)	—
Accelerated depreciation rates	(9,216)	(3,060)	(2,803)	(1,583)	(1,257)	(896)	(966)	(697)
Regulatory assets and deferred debits, net	(1,090)	—	(807)	(238)	(569)	—	(188)	—
Other	—	—	—	—	—	—	—	(7)
Total deferred income tax liabilities	(11,725)	(3,909)	(4,080)	(2,110)	(2,013)	(896)	(1,168)	(704)
Net deferred income tax liabilities	\$ (6,621)	\$ (3,413)	\$ (3,502)	\$ (1,883)	\$ (1,761)	\$ (781)	\$ (925)	\$ (564)

- (a) Primarily related to capital lease obligations and debt fair value adjustments.

On June 28, 2017, the North Carolina General Assembly amended N.C. Gen. Stat. 105-130.3, reducing the North Carolina corporate income tax rate from a statutory rate of 3.0 to 2.5 percent beginning January 1, 2019. Duke Energy recorded a net reduction of approximately \$55 million to their North Carolina deferred tax liabilities in the second quarter of 2017. The significant majority of this deferred tax liability reduction was offset by

recording a regulatory liability pending NCUC determination of the disposition of amounts related to Duke Energy Carolinas, Duke Energy Progress and Piedmont. The impact did not have a significant impact on the financial position, results of operation or cash flows of Duke Energy, Duke Energy Carolinas, Progress Energy or Duke Energy Progress.

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UNRECOGNIZED TAX BENEFITS

The following tables present changes to unrecognized tax benefits.

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3
Unrecognized tax benefits increases (decreases)								
Gross decreases – tax positions in prior periods	(2)	(1)	—	—	(4)	—	—	—
Gross increases – current period tax positions	7	2	4	1	2	—	—	1
Decreases due to settlements	(6)	—	—	—	—	—	—	—
Total changes	(1)	1	4	1	(2)	—	—	1
Unrecognized tax benefits – December 31	\$ 24	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —	\$ —
Unrecognized tax benefits increases (decreases)								
Gross increases – tax positions in prior periods	12	4	3	3	1	1	1	3
Gross decreases – tax positions in prior periods	(4)	—	—	—	—	(4)	—	—
Total changes	8	4	3	3	1	(3)	1	3
Unrecognized tax benefits – December 31	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 88	\$ 72	\$ 1	\$ 3	\$ —	\$ —	\$ 1	\$ —
Unrecognized tax benefits increases (decreases)								
Gross increases – tax positions in prior periods	—	—	—	—	4	4	—	—
Gross decreases – tax positions in prior periods	(4)	(4)	(1)	(1)	—	—	—	—
Decreases due to settlements	(68)	(67)	—	—	—	—	—	(1)
Reduction due to lapse of statute of limitations	1	—	2	—	—	—	—	—
Total changes	(71)	(71)	1	(1)	4	4	—	(1)
Unrecognized tax benefits – December 31	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —	\$ —

The following table includes additional information regarding the Duke Energy Registrants' unrecognized tax benefits at December 31, 2018. All Duke Energy Registrants do not anticipate a material increase or decrease in unrecognized tax benefits within the next 12 months.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Amount that if recognized, would affect the effective tax rate or regulatory liability ^(a)	\$ 21	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4
Amount that if recognized, would be recorded as a component of discontinued operations	2	—	—	—	—	—	—	—

(a) Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont are unable to estimate the specific amounts that would affect the effective tax rate versus the regulatory liability.

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DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

OTHER TAX MATTERS

The following tables include interest recognized in the Consolidated Statements of Operations and the Consolidated Balance Sheets.

(in millions)	Year Ended December 31, 2018		
	Duke Energy	Progress Energy	Duke Energy Progress
Net interest income recognized related to income taxes	\$ 2	\$ —	\$ —
Interest payable related to income taxes	3	1	1

(in millions)	Year Ended December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 1
Net interest expense recognized related to income taxes	—	2	—	—	—
Interest payable related to income taxes	5	25	1	1	—

(in millions)	Year Ended December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 2
Net interest expense recognized related to income taxes	—	7	—	—	—
Interest payable related to income taxes	4	23	1	1	—

Piedmont recognized \$1 million in net interest income related to income taxes in the Consolidated Statements of Operations for the year ended October 31, 2016.

Duke Energy and its subsidiaries are no longer subject to U.S. federal examination for years before 2015. With few exceptions, Duke Energy and its subsidiaries are no longer subject to state, local or non-U.S. income tax examinations by tax authorities for years before 2015.

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Combined Notes to Consolidated Financial Statements – (Continued)

24. OTHER INCOME AND EXPENSES, NET

The components of Other income and expenses, net on the Consolidated Statements of Operations are as follows.

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 20	\$ 1	\$ 18	\$ 1	\$ 18	\$ 7	\$ 9	\$ 1
AFUDC equity	221	73	104	57	47	11	32	—
Post in-service equity returns	15	9	5	5	—	1	—	—
Nonoperating income, other	143	70	38	24	21	4	4	13
Other income and expense, net	\$ 399	\$ 153	\$ 165	\$ 87	\$ 86	\$ 23	\$ 45	\$ 14

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 13	\$ 2	\$ 6	\$ 2	\$ 5	\$ 6	\$ 8	\$ —
AFUDC equity	237	106	92	47	45	11	28	—
Post in-service equity returns	40	28	12	12	—	—	—	—
Nonoperating income, other	218	63	99	54	46	6	11	(11)
Other income and expense, net	\$ 508	\$ 199	\$ 209	\$ 115	\$ 96	\$ 23	\$ 47	\$ (11)

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy
Interest income	\$ 21	\$ 4	\$ 4	\$ 3	\$ 2	\$ 5	\$ 6	\$ 6
AFUDC equity	200	102	76	50	26	6	16	—
Post in-service equity returns	67	55	12	12	—	—	—	—
Nonoperating income, other	175	53	94	67	35	—	4	—
Other income and expense, net ^(a)	\$ 463	\$ 214	\$ 186	\$ 132	\$ 63	\$ 11	\$ 26	—

(a) Amounts for Piedmont for the two months ended December 31, 2016, and for the year ended October 31, 2016, were not material.

25. SUBSEQUENT EVENTS

For information on subsequent events related to the adoption of the new lease accounting standard, regulatory matters, commitments and contingencies and debt and credit facilities, see Notes 1, 4, 5 and 6, respectively.

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Combined Notes to Consolidated Financial Statements – (Continued)

26. QUARTERLY FINANCIAL DATA (UNAUDITED)

DUKE ENERGY

Quarterly EPS amounts may not sum to the full-year total due to changes in the weighted average number of common shares outstanding and rounding.

(in millions, except per share data)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$6,135	\$5,643	\$6,628	\$6,115	\$24,521
Operating income	1,256	979	1,579	871	4,685
Income from continuing operations	622	507	1,062	434	2,625
(Loss) Income from discontinued operations, net of tax	—	(5)	4	20	19
Net income	622	502	1,066	454	2,644
Net income attributable to Duke Energy Corporation	620	500	1,082	464	2,666
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.88	\$ 0.72	\$ 1.51	\$ 0.62	\$ 3.73
Diluted	\$ 0.88	\$ 0.72	\$ 1.51	\$ 0.62	\$ 3.73
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ —	\$ (0.01)	\$ —	\$ 0.03	\$ 0.03
Diluted	\$ —	\$ (0.01)	\$ —	\$ 0.03	\$ 0.03
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.88	\$ 0.71	\$ 1.51	\$ 0.65	\$ 3.76
Diluted	\$ 0.88	\$ 0.71	\$ 1.51	\$ 0.65	\$ 3.76
2017					
Operating revenues	\$5,729	\$5,555	\$6,482	\$5,799	\$23,565
Operating income	1,402	1,353	1,661	1,209	5,625
Income from continuing operations	717	691	957	705	3,070
Loss from discontinued operations, net of tax	—	(2)	(2)	(2)	(6)
Net income	717	689	955	703	3,064
Net income attributable to Duke Energy Corporation	716	686	954	703	3,059
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.37
Diluted	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.37
Loss from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ —	\$ —	\$ —	\$ —	\$ (0.01)
Diluted	\$ —	\$ —	\$ —	\$ —	\$ (0.01)
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.36
Diluted	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.36

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (17)	\$ (20)	\$ (16)	\$ (31)	\$ (84)
Regulatory and Legislative Impacts (see Note 4)	(86)	(179)	—	—	(265)
Sale of Retired Plant (see Note 3)	(107)	—	—	—	(107)
Impairment Charges (see Notes 4, 11 and 12)	(55)	—	(93)	(60)	(208)
Severance Charges (see Note 20)	—	—	—	(187)	(187)
Impacts of the Tax Act (see Note 23)	(76)	—	3	53	(20)
Total	\$ (341)	\$ (199)	\$ (106)	\$ (225)	\$ (871)
2017					
Costs to Achieve Mergers (see Note 2)	\$ (16)	\$ (30)	\$ (23)	\$ (34)	\$ (103)
Regulatory Settlements (see Note 4)	—	—	(135)	(23)	(158)
Commercial Renewables Impairments (see Notes 10 and 11)	—	—	(84)	(18)	(102)
Impacts of the Tax Act (see Note 23)	—	—	—	102	102
Total	\$ (16)	\$ (30)	\$ (242)	\$ 27	\$ (261)

DUKE ENERGY CAROLINAS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 1,763	\$ 1,672	\$ 2,090	\$ 1,775	\$ 7,300
Operating income	482	224	713	241	1,660
Net income	323	117	496	135	1,071
2017					
Operating revenues	\$ 1,716	\$ 1,729	\$ 2,136	\$ 1,721	\$ 7,302
Operating income	471	471	763	384	2,089
Net income	270	273	466	205	1,214

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (2)	\$ (2)	\$ (1)	\$ (9)
Regulatory and Legislative Impacts (see Note 4)	(19)	(179)	—	—	(198)
Severance Charges (see Note 20)	—	—	—	(102)	(102)
Impacts of the Tax Act (see Note 23)	—	—	(1)	—	(1)
Total	\$ (23)	\$ (181)	\$ (3)	\$ (103)	\$ (310)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (6)	\$ (5)	\$ (5)	\$ (20)
Impacts of the Tax Act (see Note 23)	—	—	—	(15)	(15)
Total	\$ (4)	\$ (6)	\$ (5)	\$ (20)	\$ (35)

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DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

PROGRESS ENERGY

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 2,576	\$ 2,498	\$ 3,045	\$ 2,609	\$ 10,728
Operating income	447	484	663	334	1,928
Net income	237	267	406	123	1,033
Net income attributable to Parent	235	265	404	123	1,027
2017					
Operating revenues	\$ 2,179	\$ 2,392	\$ 2,864	\$ 2,348	\$ 9,783
Operating income	471	576	641	459	2,147
Net income	201	277	343	447	1,268
Net income attributable to Parent	199	274	341	444	1,258

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (3)	\$ (1)	\$ (2)	\$ (10)
Regulatory and Legislative Impacts (see Note 4)	(67)	—	—	—	(67)
Impairment Charges (see Note 4)	—	—	—	(60)	(60)
Severance Charges (see Note 20)	—	—	—	(69)	(69)
Impacts of the Tax Act (see Note 23)	(1)	—	(5)	(19)	(25)
Total	\$(72)	\$(3)	\$(6)	\$(150)	\$(231)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (7)	\$ (6)	\$ (6)	\$ (23)
Regulatory Settlements (see Note 4)	—	—	(135)	(23)	(158)
Impacts of the Tax Act (see Note 23)	—	—	—	246	246
Total	\$(4)	\$(7)	\$(141)	\$ 217	\$ 65

DUKE ENERGY PROGRESS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 1,460	\$ 1,291	\$ 1,582	\$ 1,366	\$ 5,699
Operating income	269	233	330	227	1,059
Net income	177	139	216	135	667
2017					
Operating revenues	\$ 1,219	\$ 1,199	\$ 1,460	\$ 1,251	\$ 5,129
Operating income	274	270	398	243	1,185
Net income	147	154	246	168	715

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (2)	\$ (1)	\$ (1)	\$ (6)
Regulatory and Legislative Impacts (see Note 4)	(67)	—	—	—	(67)
Severance Charges (see Note 20)	—	—	—	(52)	(52)
Impacts of the Tax Act (see Note 23)	—	—	(4)	(15)	(19)
Total	\$(69)	\$(2)	\$(5)	\$(68)	\$(144)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (4)	\$ (4)	\$ (4)	\$ (14)
Regulatory Settlements (see Note 4)	—	—	—	(23)	(23)
Impacts of the Tax Act (see Note 23)	—	—	—	40	40
Total	\$(2)	\$(4)	\$(4)	\$ 13	\$ 3

DUKE ENERGY FLORIDA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 1,115	\$ 1,203	\$ 1,462	\$ 1,241	\$ 5,021
Operating income	173	245	331	107	856
Net income	103	188	243	40	554
2017					
Operating revenues	\$ 959	\$ 1,191	\$ 1,401	\$ 1,095	\$ 4,646
Operating income	192	301	236	212	941
Net income	90	158	120	344	712

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (1)	\$ —	\$ (1)	\$ (4)
Impairment Charges (see Note 4)	—	—	—	(60)	(60)
Severance Charges (see Note 20)	—	—	—	(17)	(17)
Impacts of the Tax Act (see Note 23)	—	—	(2)	2	—
Total	\$(2)	\$(1)	\$(2)	\$(76)	\$(81)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (3)	\$ (2)	\$ (2)	\$ (9)
Regulatory Settlements (see Note 4)	—	—	(135)	—	(135)
Impacts of the Tax Act (see Note 23)	—	—	—	226	226
Total	\$(2)	\$(3)	\$(137)	\$ 224	\$ 82

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY OHIO

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 524	\$ 459	\$ 469	\$ 505	\$ 1,957
Operating (loss) income	(21)	77	139	93	288
Net (loss) income	(25)	46	100	55	176
2017					
Operating revenues	\$ 518	\$ 437	\$ 471	\$ 497	\$ 1,923
Operating income	82	64	101	73	320
Loss from discontinued operations, net of tax	—	—	(1)	—	(1)
Net income	42	30	55	65	192

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (3)	\$ (5)	\$ —	\$ (6)	\$ (14)
Sale of Retired Plant (see Note 3)	(107)	—	—	—	(107)
Severance Charges (see Note 20)	—	—	—	(6)	(6)
Impacts of the Tax Act (see Note 23)	—	—	—	(2)	(2)
Total	\$ (110)	\$ (5)	\$ —	\$ (14)	\$ (129)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (1)	\$ (1)	\$ (2)	\$ (2)	\$ (6)
Impacts of the Tax Act (see Note 23)	—	—	—	23	23
Total	\$ (1)	\$ (1)	\$ (2)	\$ 21	\$ 17

DUKE ENERGY INDIANA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 731	\$ 738	\$ 819	\$ 771	\$ 3,059
Operating income	168	169	173	133	643
Net income	100	98	119	76	393
2017					
Operating revenues	\$ 758	\$ 742	\$ 802	\$ 745	\$ 3,047
Operating income	184	208	228	166	786
Net income	91	106	121	36	354

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ —	\$ —	\$ (2)	\$ —	\$ (2)
Severance Charges (see Note 20)	—	—	—	(7)	(7)
Total	\$ —	\$ —	\$ (2)	\$ (7)	\$ (9)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (1)	\$ (2)	\$ (2)	\$ (1)	\$ (6)
Impacts of the Tax Act (see Note 23)	—	—	—	(55)	(55)
Total	\$ (1)	\$ (2)	\$ (2)	\$ (56)	\$ (61)

PIEDMONT

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 553	\$ 215	\$ 172	\$ 435	\$ 1,375
Operating income (loss)	161	5	(19)	79	226
Net income (loss)	110	(8)	(21)	48	129
2017					
Operating revenues	\$ 500	\$ 201	\$ 183	\$ 444	\$ 1,328
Operating income (loss)	170	5	(4)	126	297
Net income (loss)	95	(8)	(11)	63	139

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (6)	\$ (9)	\$ (11)	\$ (22)	\$ (48)
Severance Charges (see Note 20)	—	—	—	(2)	(2)
Total	\$ (6)	\$ (9)	\$ (11)	\$ (24)	\$ (50)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (6)	\$ (13)	\$ (8)	\$ (19)	\$ (46)
Impacts of the Tax Act (see Note 23)	—	—	—	2	2
Total	\$ (6)	\$ (13)	\$ (8)	\$ (17)	\$ (44)

PART II

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified by the SEC rules and forms.

Disclosure controls and procedures include, without limitation, controls and procedures designed to provide reasonable assurance that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated the effectiveness of their disclosure controls and procedures (as such term is defined in Rule 13a-15(e) and 15d-15(e) under the Exchange Act) as of December 31, 2018, and, based upon this evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that these controls and procedures are effective in providing reasonable assurance of compliance.

Changes in Internal Control Over Financial Reporting

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated changes in internal control over financial reporting (as such term is defined in Rules 13a-15 and 15d-15 under the Exchange Act) that occurred during the fiscal quarter ended December 31, 2018, and have concluded no change has materially affected, or is reasonably likely to materially affect, internal control over financial reporting.

Management's Annual Report on Internal Control Over Financial Reporting

The Duke Energy Registrants' management is responsible for establishing and maintaining an adequate system of internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). The Duke Energy Registrants' internal control system was designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes, in accordance with generally accepted accounting principles in the United States. Due to inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness of the internal control over financial reporting to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

The Duke Energy Registrants' management, including their Chief Executive Officer and Chief Financial Officer, has conducted an evaluation of the effectiveness of their internal control over financial reporting as of December 31, 2018, based on the framework in the Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, management concluded that its internal controls over financial reporting were effective as of December 31, 2018.

Deloitte & Touche LLP, Duke Energy's independent registered public accounting firm, has issued an attestation report on the effectiveness of Duke Energy's internal control over financial reporting, which is included herein. This report is not applicable to the Subsidiary Registrants as these companies are not accelerated or large accelerated filers.

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of
Duke Energy Corporation

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of December 31, 2018, of the Company and our report dated February 28, 2019, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Annual Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information regarding Duke Energy's Executive Officers is set forth in Part I, Item 1, "Business – Executive Officers of the Registrants," in this Annual Report on Form 10-K. Duke Energy will provide information that is responsive to the remainder of this Item 10 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 10 by reference.

ITEM 11. EXECUTIVE COMPENSATION

Duke Energy will provide information that is responsive to this Item 11 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 11 by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Equity Compensation Plan Information

The following table shows information as of December 31, 2018, about securities to be issued upon exercise of outstanding options, warrants and rights under Duke Energy's equity compensation plans, along with the weighted-average exercise price of the outstanding options, warrants and rights and the number of securities remaining available for future issuance under the plans.

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted average exercise price of outstanding options, warrants and rights (b) ⁽¹⁾	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	3,729,606 ⁽²⁾	n/a	6,080,741 ⁽³⁾
Equity compensation plans not approved by security holders	186,900 ⁽⁴⁾	n/a	n/a ⁽⁵⁾
Total	3,916,506	n/a	6,080,741

- (1) As of December 31, 2018, no options were outstanding under equity compensation plans.
- (2) Includes restricted stock units and performance shares (assuming the maximum payout level) granted under the Duke Energy Corporation 2015 Long-Term Incentive Plan, as well as shares that could be payable with respect to certain compensation deferred under the Executive Savings Plan or the Directors' Savings Plan.
- (3) Includes shares remaining available for issuance pursuant to stock awards under the Duke Energy Corporation 2015 Long-Term Incentive Plan.
- (4) Includes shares that could be payable with respect to certain compensation deferred under the Executive Savings Plan or the Directors' Savings Plan, each of which is a non-qualified deferred compensation plan described in more detail below.
- (5) The number of shares remaining available for future issuance under equity compensation plans not approved by security holders cannot be determined because it is based on the amount of future voluntary deferrals, if any, under the Executive Savings Plan and the Directors' Savings Plan.

Under the Executive Savings Plan, participants can elect to defer a portion of their base salary and short-term incentive compensation. Participants also receive a company matching contribution in excess of the contribution limits prescribed by the Internal Revenue Code under the Duke Energy Retirement Savings Plan, which is the 401(k) plan in which employees are generally eligible to participate. In general, payments are made following termination of employment or death in the form of a lump sum or installments, as selected by the participant. Participants may direct the deemed investment of base salary deferrals, short-term incentive compensation deferrals and matching contributions among investment options available under the Duke Energy Retirement Savings Plan, including the Duke Energy Common Stock Fund. Participants may change their investment elections on a daily basis. Deferrals of equity awards are credited with earnings and losses based on the performance

of the Duke Energy Common Stock Fund. The benefits payable under the plan are unfunded and subject to the claims of Duke Energy's creditors.

Under the Directors' Savings Plan, outside directors may elect to defer all or a portion of their annual compensation, generally consisting of retainers. Deferred amounts are credited to an unfunded account, the balance of which is adjusted for the performance of phantom investment options, including the Duke Energy common stock fund, as elected by the director, and generally are paid when the director terminates his or her service from the Board of Directors.

Duke Energy will provide additional information that is responsive to this Item 12 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 12 by reference.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

Duke Energy will provide information that is responsive to this Item 13 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 13 by reference.

PART III

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Deloitte provided professional services to the Duke Energy Registrants. The following tables present the Deloitte fees for services rendered to the Duke Energy Registrants during 2018 and 2017.

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 14.0	\$ 5.0	\$ 5.5	\$ 3.3	\$ 2.2	\$ 0.9	\$ 1.4	\$ 0.8
Audit-Related Fees ^(b)	0.4	—	0.1	—	0.1	—	—	—
Tax Fees ^(c)	0.6	0.2	0.2	0.1	0.1	—	0.1	0.1
Other Fees ^(d)	—	—	—	—	—	—	—	—
Total Fees	\$ 15.0	\$ 5.2	\$ 5.8	\$ 3.4	\$ 2.4	\$ 0.9	\$ 1.5	\$ 0.9

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 13.6	\$ 4.7	\$ 5.6	\$ 3.1	\$ 2.4	\$ 0.8	\$ 1.4	\$ 0.8
Audit-Related Fees ^(b)	0.2	—	—	—	—	—	—	—
Tax Fees ^(c)	1.7	0.6	0.1	0.4	—	0.1	0.1	0.1
Other Fees ^(d)	0.1	—	—	—	—	—	—	—
Total Fees	\$ 15.6	\$ 5.3	\$ 5.7	\$ 3.5	\$ 2.4	\$ 0.9	\$ 1.5	\$ 0.9

- (a) Audit Fees are fees billed, or expected to be billed, by Deloitte for professional services for the financial statement audits, audit of the Duke Energy Registrants' financial statements included in the Annual Report on Form 10-K, reviews of financial statements included in Quarterly Reports on Form 10-Q, and services associated with securities filings such as comfort letters and consents.
- (b) Audit-Related Fees are fees billed, or expected to be billed, by Deloitte for assurance and related services that are reasonably related to the performance of an audit or review of financial statements, including statutory reporting requirements.
- (c) Tax Fees are fees billed by Deloitte for tax return assistance and preparation, tax examination assistance and professional services related to tax planning and tax strategy.
- (d) Other Fees are billed by Deloitte for attendance at Deloitte-sponsored conferences and access to Deloitte research tools and subscription services.

To safeguard the continued independence of the independent auditor, the Audit Committee of Duke Energy adopted a policy that all services provided by the independent auditor require preapproval by the Audit Committee. Pursuant to the policy, certain audit services, audit-related services, tax services and other services have been specifically preapproved up to fee limits. In the event

the cost of any of these services may exceed the fee limits, the Audit Committee must specifically approve the service. All services performed in 2018 and 2017 by the independent accountant were approved by the Audit Committee pursuant to the preapproval policy.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) Consolidated Financial Statements, Supplemental Financial Data and Supplemental Schedules included in Part II of this Annual Report are as follows:

Duke Energy Corporation

Consolidated Financial Statements
Consolidated Statements of Operations for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Carolinas, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Progress Energy, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Progress, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Florida, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

PART IV

Duke Energy Ohio, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Indiana, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Piedmont Natural Gas Company, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, and 2017, Two Months Ended December 31, 2016,
and the Year Ended October 31, 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, and 2017, Two Months Ended December 31, 2016, and the Year Ended
October 31, 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, and 2017, Two Months Ended December 31, 2016, and the Year Ended
October 31, 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

PART IV

EXHIBIT INDEX

Exhibits filed herewithin are designated by an asterisk (*). All exhibits not so designated are incorporated by reference to a prior filing, as indicated. Items constituting management contracts or compensatory plans or arrangements are designated by a double asterisk (**). The Company agrees to furnish upon request to the Commission a copy of any omitted schedules or exhibits upon request on all items designated by a triple asterisk (***)

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
2.1	Agreement and Plan of Merger between Duke Energy Corporation, Diamond Acquisition Corporation and Progress Energy, Inc., dated as of January 8, 2011 (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 11, 2011, File No. 1-32853).	X							
2.2	Agreement and Plan of Merger between Piedmont Natural Gas Company, Duke Energy Corporation and Forest Subsidiary, Inc. (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 26, 2015, File No. 1-32853).	X							
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 20, 2014, File No. 1-32853).	X							
3.2	Amended and Restated By-Laws of Duke Energy Corporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 4, 2016, File No. 1-32853).	X							
3.3	Articles of Organization including Articles of Conversion (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						
3.3.1	Amended Articles of Organization, effective October 1, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 13, 2006, File No. 1-4928).		X						
3.4	Amended Articles of Incorporation of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective October 23, 1996, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 1996, filed on November 13, 1996, File No. 1-1232).						X		
3.4.1	Amended Articles of Incorporation, effective September 19, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 17, 2006, File No. 1-1232).						X		
3.5	Certificate of Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.1	Articles of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.2	Plan of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.3	Articles of Organization of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.4	Limited Liability Company Operating Agreement of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.6	Limited Liability Company Operating Agreement of Duke Energy Carolinas, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
3.7						X		
3.8				X				
3.8.1				X				
3.8.2				X				
3.9			X					
3.9.1			X					
3.9.2			X					
3.9.3			X					
3.10						X		
3.10.1						X		
3.10.2						X		
3.10.3						X		
3.11								X
3.11.1								X

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.1	Indenture between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee, dated as of June 3, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X							
4.1.1	First Supplemental Indenture, dated as of June 16, 2008, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X							
4.1.2	Second Supplemental Indenture, dated as of January 26, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 26, 2009, File No. 1-32853).	X							
4.1.3	Third Supplemental Indenture, dated as of August 28, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 28, 2009, File No. 1-32853).	X							
4.1.4	Fourth Supplemental Indenture, dated as of March 25, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on March 25, 2010, File No. 1-32853).	X							
4.1.5	Fifth Supplemental Indenture, dated as of August 25, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 25, 2011, File No. 1-32853).	X							
4.1.6	Sixth Supplemental Indenture, dated as of November 17, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on November 17, 2011, File No. 1-32853).	X							
4.1.7	Seventh Supplemental Indenture, dated as of August 16, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 16, 2012, File No. 1-32853).	X							
4.1.8	Eighth Supplemental Indenture, dated as of January 14, 2013, (incorporated by reference to Exhibit 2 to the Registration Statement of Form 8-A of the Company filed on January 14, 2013, File No. 1-32853).	X							
4.1.9	Ninth Supplemental Indenture, dated as of June 13, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 13, 2013, File No. 1-32853).	X							
4.1.10	Tenth Supplemental Indenture, dated as of October 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 11, 2013, File No. 1-32853).	X							
4.1.11	Eleventh Supplemental Indenture, dated as of April 4, 2014, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 4, 2014, File No. 1-32853).	X							
4.1.12	Twelfth Supplemental Indenture, dated as of November 19, 2015, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on November 19, 2015, File No. 1-32853).	X							
4.1.13	Thirteenth Supplemental Indenture, dated as of April 18, 2016, to the indenture dated as of June 3, 2008, between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-32853).	X							
4.1.14	Fourteenth Supplemental Indenture, dated as of August 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 12, 2016, File No. 1-32853).	X							
4.1.15	Fifteenth Supplemental Indenture, dated as of April 11, 2017 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							

PART IV

Exhibit Number	Description	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.1.16	Sixteenth Supplemental Indenture, dated as of June 13, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).	X							
4.1.17	Seventeenth Supplemental Indenture, dated as of August 10, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 10, 2017, File No. 1-32853).	X							
4.1.18	Eighteenth Supplemental Indenture, dated as of March 29, 2018 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018 filed on May 10, 2018, File No. 1-32853).	X							
4.1.19	Nineteenth Supplemental Indenture, dated as of May 16, 2018 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018 filed on August 2, 2018, File No. 1-32853).	X							
4.1.20	Twentieth Supplemental Indenture (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form 8-A filed on September 17, 2018, File No. 1-32853).	X							
4.2	Senior Indenture between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as successor trustee to JPMorgan Chase Bank (formerly known as The Chase Manhattan Bank), dated as of September 1, 1998, (incorporated by reference to Exhibit 4-D-1 to registrant's Post-Effective Amendment No. 2 to Registration Statement on Form S-3 filed on April 7, 1999, File No. 333-14209).		X						
4.2.1	Fifteenth Supplemental Indenture, dated as of April 3, 2006, (incorporated by reference to Exhibit 4.4.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).		X						
4.2.2	Sixteenth Supplemental Indenture, dated as of June 5, 2007, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 6, 2007, File No. 1-4928).		X						
4.3	First and Refunding Mortgage from Duke Energy Carolinas, LLC to The Bank of New York Mellon Trust Company, N.A., successor trustee to Guaranty Trust Company of New York, dated as of December 1, 1927, (incorporated by reference to Exhibit 7(a) to registrant's Form S-1, effective October 15, 1947, File No. 2-7224).		X						
4.3.1	Instrument of Resignation, Appointment and Acceptance among Duke Energy Carolinas, LLC, JPMorgan Chase Bank, N.A., as Trustee, and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of September 24, 2007, (incorporated by reference to Exhibit 4.6.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483).		X						
4.3.2	Ninth Supplemental Indenture, dated as of February 1, 1949, (incorporated by reference to Exhibit 7(j) to registrant's Form S-1 filed on February 3, 1949, File No. 2-7808).		X						
4.3.3	Twentieth Supplemental Indenture, dated as of June 15, 1964, (incorporated by reference to Exhibit 4-B-20 to registrant's Form S-1 filed on August 23, 1966, File No. 2-25367).		X						
4.3.4	Twenty-third Supplemental Indenture, dated as of February 1, 1968, (incorporated by reference to Exhibit 2-B-26 to registrant's Form S-9 filed on January 21, 1969, File No. 2-31304).		X						
4.3.5	Sixtieth Supplemental Indenture, dated as of March 1, 1990, (incorporated by reference to Exhibit 4-B-61 to registrant's Annual Report on Form 10-K for the year ended December 31, 1990, File No.1-4928).		X						
4.3.6	Sixty-third Supplemental Indenture, dated as of July 1, 1991, (incorporated by reference to Exhibit 4-B-64 to registrant's Registration Statement on Form S-3 filed on February 13, 1992, File No. 33-45501).		X						

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.3.7		X						
4.3.8		X						
4.3.9		X						
4.3.10		X						
4.3.11		X						
4.3.12		X						
4.3.13		X						
4.3.14		X						
4.3.15		X						
4.3.16		X						
4.3.17		X						
4.3.18		X						
4.3.19		X						
4.3.20		X						
4.4				X				
4.4.1				X				
4.4.2				X				

PART IV

Exhibit Number	Description	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
4.4.3	Seventh Supplemental Indenture dated November 1, 1961 (incorporated by reference to Exhibit 2(b)-6, File No. 2-16210).				X				
4.4.4	Eighth Supplemental Indenture dated July 1, 1964 (incorporated by reference to Exhibit 4(b)-8, File No. 2-19118).				X				
4.4.5	Ninth Supplemental Indenture dated April 1, 1966 (incorporated by reference to Exhibit 4(b)-2, File No. 2-22439).				X				
4.4.6	Tenth Supplemental Indenture dated October 1, 1967 (incorporated by reference to Exhibit 4(b)-2, File No. 2-24624).				X				
4.4.7	Eleventh Supplemental Indenture dated October 1, 1968 (incorporated by reference to Exhibit 2(c), File No. 2-27297).				X				
4.4.8	Twelfth Supplemental indenture dated January 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-30172).				X				
4.4.9	Thirteenth Supplemental Indenture dated August 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-35694).				X				
4.4.10	Fourteenth Supplemental Indenture dated January 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-37505).				X				
4.4.11	Fifteenth Supplemental Indenture dated October 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-39002).				X				
4.4.12	Sixteenth Supplemental Indenture dated May 1, 1972 (incorporated by reference to Exhibit 2(c), File No. 2-41738).				X				
4.4.13	Seventeenth Supplemental Indenture dated November 1, 1973 (incorporated by reference to Exhibit 2(c), File No. 2-43439).				X				
4.4.14	Eighteenth Supplemental Indenture dated (incorporated by reference to Exhibit 2(c), File No. 2-47751).				X				
4.4.15	Nineteenth Supplemental Indenture dated May 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-49347).				X				
4.4.16	Twentieth Supplemental Indenture dated December 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-53113).				X				
4.4.17	Twenty-first Supplemental Indenture dated April 15, 1975 (incorporated by reference to Exhibit 2(d), File No. 2-53113).				X				
4.4.18	Twenty-second Supplemental Indenture dated October 1, 1977 (incorporated by reference to Exhibit 2(c), File No. 2-59511).				X				
4.4.19	Twenty-third Supplemental Indenture dated June 1, 1978 (incorporated by reference to Exhibit 2(c), File No. 2-61611).				X				
4.4.20	Twenty-fourth Supplemental Indenture dated May 15, 1979 (incorporated by reference to Exhibit 2(d), File No. 2-64189).				X				
4.4.21	Twenty-fifth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-65514).				X				
4.4.22	Twenty-sixth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-66851).				X				
4.4.23	Twenty-seventh Supplemental Indenture dated April 1, 1980 (incorporated by reference to Exhibit 2 (d), File No. 2-66851).				X				
4.4.24	Twenty-eighth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-1, File No. 2-81299).				X				
4.4.25	Twenty-ninth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-2, File No. 2-81299).				X				
4.4.26	Thirtieth Supplemental Indenture dated December 1, 1982 (incorporated by reference to Exhibit 4(b)-3, File No. 2-81299).				X				

PART IV

Exhibit Number	Description	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.27	Thirty-first Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-1, File No. 2-95505).				X				
4.4.28	Thirty-second Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-2, File No. 2-95505).				X				
4.4.29	Thirty-third Supplemental Indenture dated December 1, 1983 (incorporated by reference to Exhibit 4(c)-3, File No. 2-95505).				X				
4.4.30	Thirty-fourth Supplemental Indenture dated December 15, 1983 (incorporated by reference to Exhibit 4(c)-4, File No. 2-95505).				X				
4.4.31	Thirty-fifth Supplemental Indenture dated April 1, 1984 (incorporated by reference to Exhibit 4(c)-5, File No. 2-95505).				X				
4.4.32	Thirty-sixth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-6, File No. 2-95505).				X				
4.4.33	Thirty-seventh Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-7, File No. 2-95505).				X				
4.4.34	Thirty-eighth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-8, File No. 2-95505).				X				
4.4.35	Thirty-ninth Supplemental Indenture dated April 1, 1985 (incorporated by reference to Exhibit 4(b), File No. 33-25560).				X				
4.4.36	Fortieth Supplemental Indenture dated October 1, 1985 (incorporated by reference to Exhibit 4(c), File No. 33-25560).				X				
4.4.37	Forty-first Supplemental Indenture dated March 1, 1986 (incorporated by reference to Exhibit 4(d), File No. 33-25560).				X				
4.4.38	Forty-second Supplemental Indenture dated July 1, 1986 (incorporated by reference to Exhibit 4(e), File No. 33-25560).				X				
4.4.39	Forty-third Supplemental Indenture dated January 1, 1987 (incorporated by reference to Exhibit 4(f), File No. 33-25560).				X				
4.4.40	Forty-fourth Supplemental Indenture dated December 1, 1987 (incorporated by reference to Exhibit 4(g), File No. 33-25560).				X				
4.4.41	Forty-fifth supplemental Indenture dated September 1, 1988 (incorporated by reference to Exhibit 4(h), File No. 33-25560).				X				
4.4.42	Forty-sixth Supplemental Indenture dated April 1, 1989 (incorporated by reference to Exhibit 4(b), File No. 33-33431).				X				
4.4.43	Forty-seventh Supplemental Indenture dated August 1, 1989 (incorporated by reference to Exhibit 4(c), File No. 33-33431).				X				
4.4.44	Forty-eighth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(b), File No. 33-38298).				X				
4.4.45	Forty-ninth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(c), File No. 33-38298).				X				
4.4.46	Fiftieth Supplemental Indenture dated February 15, 1991 (incorporated by reference to Exhibit 4(h), File No. 33-42869).				X				
4.4.47	Fifty-first Supplemental Indenture dated April 1, 1991 (incorporated by reference to Exhibit 4(i), File No. 33-42869).				X				
4.4.48	Fifty-second Supplemental Indenture dated September 15, 1991 (incorporated by reference to Exhibit 4(e), File No. 33-48607).				X				
4.4.49	Fifty-third Supplemental Indenture dated January 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-48607).				X				
4.4.50	Fifty-fourth Supplemental Indenture dated April 15, 1992 (incorporated by reference to Exhibit 4 (g), File No. 33-48607).				X				

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Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
4.4.51	Fifty-fifth Supplemental Indenture dated July 1, 1992 (incorporated by reference to Exhibit 4(e), File No. 33-55060).				X				
4.4.52	Fifty-sixth Supplemental Indenture dated October 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-55060).				X				
4.4.53	Fifty-seventh Supplemental Indenture dated February 1, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-60014).				X				
4.4.54	Fifty-eighth Supplemental Indenture dated March 1, 1993 (incorporated by reference to Exhibit 4(f), File No. 33-60014).				X				
4.4.55	Fifty-ninth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(a) to Post-Effective Amendment No. 1, File No. 33-38349).				X				
4.4.56	Sixtieth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(b) to Post-Effective Amendment No. 1, File No. 33-38349).				X				
4.4.57	Sixty-first Supplemental Indenture dated August 15, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-50597).				X				
4.4.58	Sixty-second Supplemental Indenture dated January 15, 1994 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Current Report on Form 8-K dated January 19, 1994, File No. 1-3382).				X				
4.4.59	Sixty-third Supplemental Indenture dated May 1, 1994 (incorporated by reference to Exhibit 4(f) for Duke Energy Progress' Form S-3, File No. 033-57835).				X				
4.4.60	Sixty-fourth Supplemental Indenture dated August 15, 1997 (incorporated by reference to Exhibit to Duke Energy Progress' Current Report on Form 8-K dated August 26, 1997, File No. 1-3382).				X				
4.4.61	Sixty-fifth Supplemental Indenture dated April 1, 1998 (incorporated by reference to Exhibit 4(b) for Duke Energy Progress' Registration Statement on Form S-3 filed December 18, 1998, File No. 333-69237).				X				
4.4.62	Sixty-sixth Supplemental Indenture dated March 1, 1999 (incorporated by reference to Exhibit 4(c) to Duke Energy Progress' Current Report on Form 8-K dated March 19, 1999, File No. 1-3382).				X				
4.4.63	Form of Carolina Power & Light Company First Mortgage Bond, 6.80% Series Due August 15, 2007 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Form 10-Q for the period ended September 30, 1998, File No. 1-3382).				X				
4.4.64	Sixty-eighth Supplemental Indenture dated April 1, 2000 (incorporated by reference to Exhibit No. 4(b) to Duke Energy Progress' Current Report on Form 8-K dated April 20, 2000, File No. 1-3382).				X				
4.4.65	Sixty-ninth Supplemental Indenture dated June 1, 2000 (incorporated by reference to Exhibit No. 4b(2) to Duke Energy Progress' Annual Report on Form 10-K dated March 29, 2001, File No. 1-3382).				X				
4.4.66	Seventieth Supplemental Indenture dated July 1, 2000 (incorporated by reference to Exhibit 4b(3) to Duke Energy Progress' Annual Report on Form 10-K dated March 29, 2001, File No. 1-3382).				X				
4.4.67	Seventy-first Supplemental Indenture dated February 1, 2002 (incorporated by reference to Exhibit 4b(2) to Duke Energy Progress' Annual Report on Form 10-K dated March 28, 2002, File No. 1-3382 and 1-15929).				X				
4.4.68	Seventy-second Supplemental Indenture, dated as of September 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 12, 2003, File No. 1-3382).				X				
4.4.69	Seventy-third Supplemental Indenture, dated as of March 1, 2005, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 22, 2005, File No. 1-3382).				X				

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Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.70				X				
4.4.71				X				
4.4.72				X				
4.4.73				X				
4.4.74				X				
4.4.75				X				
4.4.76				X				
4.4.77				X				
4.4.78				X				
4.4.79				X				
4.4.80				X				
4.4.81				X				
4.5				X				

PART IV

Exhibit Number	Description	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.6	Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).				X				
4.7	Indenture (for First Mortgage Bonds) between Duke Energy Florida, Inc. (formerly Florida Power Corporation) and The Bank of New York Mellon (as successor to Guaranty Trust Company of New York and The Florida National Bank of Jacksonville), as Trustee, dated as of January 1, 1944, (incorporated by reference to Exhibit B-18 to registrant's Form A-2, File No. 2-5293).						X		
4.7.1	Seventh Supplemental Indenture (incorporated by reference to Exhibit 4(b) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).						X		
4.7.2	Eighth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).						X		
4.7.3	Sixteenth Supplemental Indenture (incorporated by reference to Exhibit 4(d) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).						X		
4.7.4	Twenty-ninth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 17, 1982, File No. 2-79832).						X		
4.7.5	Thirty-eighth Supplemental Indenture, dated as of July 25, 1994, (incorporated by reference to exhibit 4(f) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on August 29, 1994, File No. 33-55273).						X		
4.7.6	Forty-first Supplemental Indenture, dated as of February 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Duke Energy Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on February 21, 2003, File No. 1-3274).						X		
4.7.7	Forty-second Supplemental Indenture, dated as of April 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 11, 2003, File No. 1-3274).						X		
4.7.8	Forty-third Supplemental Indenture, dated as of November 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 21, 2003, File No. 1-3274).						X		
4.7.9	Forty-fourth Supplemental Indenture, dated as of August 1, 2004, (incorporated by reference to Exhibit 4(m) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Annual Report on Form 10-K for the year ended December 31, 2004, filed on March 16, 2005, File No. 1-3274).						X		
4.7.10	Forty-sixth Supplemental Indenture, dated as of September 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on September 19, 2007, File No. 1-3274).						X		
4.7.11	Forty-seventh Supplemental Indenture, dated as of December 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on December 13, 2007, File No. 1-3274).						X		
4.7.12	Forty-eighth Supplemental Indenture, dated as of June 1, 2008, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on June 18, 2008, File No. 1-3274).						X		

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.7.13						X		
4.7.14						X		
4.7.15						X		
4.7.16						X		
4.7.17						X		
4.8						X		
4.8.1						X		
4.9						X		
4.10							X	
4.10.1							X	
4.10.2							X	
4.11							X	
4.11.1							X	

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.11.2						X		
4.11.3						X		
4.11.4						X		
4.11.5						X		
4.12							X	
4.12.1							X	
4.12.2							X	
4.12.3							X	
4.12.4							X	
4.13							X	
4.13.1							X	
4.13.2							X	
4.13.3							X	
4.13.4							X	
4.13.5							X	
4.13.6							X	
4.13.7							X	

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.13.8							X	
4.13.9							X	
4.13.10							X	
4.13.11							X	
4.13.12							X	
4.13.13							X	
4.13.14							X	
4.13.15							X	
4.13.16							X	
4.13.17							X	
4.13.18							X	
4.13.19							X	
4.13.20							X	
4.13.21							X	

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.13.22	Sixty-eighth Supplemental Indenture, dated as of May 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 12, 2016, File No. 1-3543).							X
4.14	Repayment Agreement between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Dayton Power and Light Company, dated as of December 23, 1992, (filed with registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-1232).						X	
4.15	Unsecured Promissory Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and the Rural Utilities Service, dated as of October 14, 1998, (incorporated by reference to Exhibit 4 to registrant's Annual Report on Form 10-K for the year ended December 31, 1998, filed on March 8, 1999, File No. 1-3543).							X
4.16	6.302% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(yyy) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).							X
4.17	6.403% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(zzz) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).							X
4.18	Contingent Value Obligation Agreement between Progress Energy, Inc. (formerly CP&L Energy, Inc.) and The Chase Manhattan Bank, as Trustee, dated as of November 30, 2000, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 1, 2000, File No. 1-3382).		X					
4.19	Form of 3.47% Series A Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).							X
4.20	Form of 3.57% Series B Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).							X
4.21	Form of 4.65% Senior Notes due 2043 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).							X
4.22	Form of 4.10% Senior Notes due 2034 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).							X
4.23	Form of 3.60% Senior Notes due 2025 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).							X
4.24	Form of 3.64% Senior Notes due 2046 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).							X
4.25	Form of 4.24% Series B Senior Notes due June 6, 2021 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).							X
4.26	Indenture, dated as of April 1, 1993, between Piedmont and The Bank of New York Mellon Trust Company, N.A. (as successor to Citibank, N.A.), Trustee (incorporated by reference to Exhibit 4.1 to registrant's Registration Statement on Form S-3 filed on May 16, 1995, File No. 33-59369).							X
4.26.1	Second Supplemental Indenture, dated as of June 15, 2003, between Piedmont and Citibank, N.A., Trustee (incorporated by reference to Exhibit 4.3 to registrant's Registration Statement on Form S-3 filed on June 19, 2003, File No. 333-106268).							X

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Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.26.2								X
4.26.3								X
4.26.4								X
4.26.5								X
4.26.6								X
4.27								X
4.28								X
4.29								X
4.30								X
4.31								X
4.32								X
4.33								X
4.34								X
10.1				X				

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.2		X						
10.3		X						
10.4								X
10.5								X
10.6		X						
10.7								X
10.8							X	
10.9	X							
10.10	X							
10.11**	X							

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont						
10.12	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Item 1.01 to registrant's Current Report on Form 8-K filed on December 19, 2008, File Nos. 1-32853 and 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)							X						
10.13**	Duke Energy Corporation Executive Severance Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on January 13, 2011, File No. 1-32853).							X						
10.14	\$6,000,000,000 Five-Year Credit Agreement between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Carolina Power and Light Company d/b/a Duke Energy Progress, Inc. and Florida Power Corporation, d/b/a Duke Energy Florida, Inc., as Borrowers, the lenders listed therein, Wells Fargo Bank, National Association, as Administrative Agent, Bank of America, N.A. and The Royal Bank of Scotland plc, as Co-Syndication Agents and Bank of China, New York Branch, Barclays Bank PLC, Citibank, N.A., Credit Suisse AG, Cayman Islands Branch, Industrial and Commercial Bank of China Limited, New York Branch, JPMorgan Chase Bank, N.A. and UBS Securities LLC, as Co-Documentation Agents, dated as of November 18, 2011, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 25, 2011, File Nos. 1-32853, 1-4928, 1-1232 and 1-3543).							X	X	X	X			
10.14.1	Amendment No. 1 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., Duke Energy Florida, Inc., and Wells Fargo Bank, National Association, dated as of December 18, 2013, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 23, 2013, File Nos. 1-32853, 1-4928, 1-3382, 1-3274, 1-1232 and 1-3543).							X	X	X	X	X	X	
10.14.2	Amendment No. 2 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., and Duke Energy Florida, Inc., the Lenders party hereto, the issuing Lenders party hereto, Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender, dated as of January 30, 2015, (incorporated by reference to Exhibit 10.1 of registrant's Current Report on Form 8-K filed on February 5, 2015, File Nos. 1-32853, 1-4928, 1-1232, 1-3543, 1-3382 and 1-3274).							X	X	X	X	X	X	
10.14.3	Amendment No. 3 and Consent, dated as of March 16, 2017, among the registrants, the Lenders party thereto, the issuing Lenders party thereto, and Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on March 17, 2017, File Nos. 1-32853, 1-04928, 1-03382, 1-03274, 1-01232, 1-03543, 1-06196).							X	X	X	X	X	X	X
10.15**	Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Appendix A to registrant's Form DEF 14A filed on March 22, 2010, File No. 1-32853).							X						
10.15.1**	Amendment to Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.3 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2012, filed on August 8, 2012, File No. 1-32853).							X						
10.16**	Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Appendix C to registrant's DEF 14A filed on March 26, 2015, File No. 1-32853).							X						
*10.16.1**	Amendment to Duke Energy Corporation 2015 Long-Term Incentive Plan.							X						

PART IV

Exhibit Number	Description	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.17**	Form of Performance Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-32853).	X							
10.18**	Form of Restricted Stock Unit Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-32853).	X							
10.19**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.20**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.24 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017 filed on February 21, 2018, File No. 1-32853).	X							
10.21**	Performance-Based Retention Award Agreement (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.22**	Performance Award Agreement (incorporated by reference to Exhibit 10.3 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.23**	Performance Award Agreement (incorporated by reference to Exhibit 10.27 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017 filed on February 21, 2018, File No. 1-32853).	X							
10.24	Settlement Agreement between Duke Energy Corporation, the North Carolina Utilities Commission Staff and the North Carolina Public Staff, dated as of November 28, 2012, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 29, 2012, File No. 1-32853).	X							
10.25	Settlement Agreement between Duke Energy Corporation and the North Carolina Attorney General, dated as of December 3, 2012, (incorporated by reference to Item 7.01 to registrant's Current Report on Form 8-K filed on December 3, 2012, File No. 1-32853).	X							
10.26**	Form of Change-in-Control Agreement (incorporated by reference to Exhibit 10.58 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2012, filed on March 1, 2013, File No. 1-32853).	X							
10.27**	Amended and Restated Duke Energy Corporation Executive Cash Balance Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.52 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32852).	X							
10.28	Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letter, dated as of February 18, 1982, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(a) to registrant's File No. 33-25560).				X				
10.29	Operating and Fuel Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letters, dated as of August 21, 1981, and December 15, 1981, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(b) to registrant's File No. 33-25560).				X				

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.30	Power Coordination Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency and amending letter, dated as of January 29, 1982, (incorporated by reference to Exhibit 10(c) to registrant's File No. 33-25560).			X				
10.31	Amendment, dated as of December 16, 1982, to Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Eastern Municipal Power Agency (incorporated by reference to Exhibit 10(d) to registrant's File No. 33-25560).			X				
10.32**	Progress Energy, Inc. 2007 Equity Incentive Plan (incorporated by reference to Exhibit C to registrant's Form DEF 14A filed on March 30, 2007, File No. 1-15929).			X				
10.33	Precedent and Related Agreements between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a Progress Energy Florida, Inc. ("PEF")), Southern Natural Gas Company, Florida Gas Transmission Company ("FGT"), and BG LNG Services, LLC ("BG"), including: a) Precedent Agreement between Southern Natural Gas Company and PEF, dated as of December 2, 2004; b) Gas Sale and Purchase Contract between BG and PEF, dated as of December 1, 2004; c) Interim Firm Transportation Service Agreement by and between FGT and PEF, dated as of December 2, 2004; d) Letter Agreement between FGT and PEF, dated as of December 2, 2004, and Firm Transportation Service Agreement between FGT and PEF to be entered into upon satisfaction of certain conditions precedent; e) Discount Agreement between FGT and PEF, dated as of December 2, 2004; f) Amendment to Gas Sale and Purchase Contract between BG and PEF, dated as of January 28, 2005; and g) Letter Agreement between FGT and PEF, dated as of January 31, 2005, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K/A filed on March 15, 2005, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)			X	X			
10.34	Engineering, Procurement and Construction Agreement between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a Progress Energy Florida, Inc.), as owner, and a consortium consisting of Westinghouse Electric Company LLC and Stone & Webster, Inc., as contractor, for a two-unit AP1000 Nuclear Power Plant, dated as of December 31, 2008, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on March 2, 2009, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)			X	X			
10.35**	X	Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 17, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 18, 2013, File No. 1-32853).						
10.35.1**	X	Amendment to Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 25, 2015, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 29, 2015, File No. 1-32853).						
10.36**	X	Duke Energy Corporation Executive Short-Term Incentive Plan, effective February 25, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 7, 2013, File No. 1-32853).						

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
10.37**	Duke Energy Corporation 2017 Director Compensation Program Summary (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).							
10.38**	Amended and Restated Duke Energy Corporation Executive Savings Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.82 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).							
10.38.1	Amendment to Duke Energy Corporation Executive Savings Plan, effective as of January 1, 2014 (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017, filed on November 3, 2017, File No. 1-32853).							
10.39	Agreement between Duke Energy SAM, LLC, Duke Energy Ohio, Inc., Duke Energy Commercial Enterprise, Inc. and Dynege Resource I, LLC, dated as of August 21, 2014, (incorporated by reference to Exhibit 10.61 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).							
10.40	Asset Purchase Agreement between Duke Energy Progress, Inc. and North Carolina Eastern Municipal Power Agency, dated as of September 5, 2014, (incorporated by reference to Exhibit 10.62 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).							
10.41	Change in Control Agreement between Duke Energy Corporation and Lloyd M. Yates, dated as of April 30, 2014, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 6, 2014, File No. 1-32853).							
10.42	Accelerated Stock Repurchase Program executed by Goldman, Sachs & Co., and JPMorgan Chase Bank, N.A. on April 6, 2015, under an agreement with Duke Energy Corporation (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 6, 2015, File No. 1-32853).							
10.43	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).							
10.44	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.4 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).							
10.45	\$1,500,000,000 Amended and Restated Term Loan Agreement among Duke Energy Corporation, as Borrower, the Lenders listed therein, The Bank of Tokyo-Mitsubishi UFJ, Ltd., as Administrative Agent, and The Bank of Tokyo-Mitsubishi UFJ, Ltd., Santander Bank, N.A. and TD Bank, N.A., as Joint Lead Arrangers and Bookrunners, dated as of August 1, 2016, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016, filed on August 4, 2016, File No. 1-32853).							
10.46	Purchase and Sale Agreement by and among Duke Energy International Group S.à.r.l., Duke Energy International Brazil Holdings S.à.r.l. and China Three Gorges (Luxembourg) Energy S.à.r.l., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.1 to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).							

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.47	Purchase and Sale Agreement by and among Duke Energy Brazil Holdings II, C.V., Duke Energy International Uruguay Investments SRL, Duke Energy International Group S.à.r.l., Duke Energy International España Holdings SL, Duke Energy International Investments No. 2 Ltd., ISQ Enerlam Aggregator, L.P., and Enerlam (UK) Holdings Ltd., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.2. to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).							
10.48**	Amended and Restated Employment Agreement, dated May 25, 2012, between Piedmont Natural Gas Company, Inc. and Franklin H. Yoho (incorporated by reference to Exhibits 10.1 and 10.2 to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2012, filed on September 7, 2012, File No. 1-06196).							
10.49**	Severance Agreements with Thomas E. Skains and Franklin H. Yoho, dated September 4, 2007, (incorporated by reference to Exhibits 10.2 and 10.2a to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2007, filed on September 7, 2007, File No. 1-06196).							
10.50**	Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 10.64 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).							
10.50.1**	First Amendment to Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-8 filed on October 3, 2016, File No. 1-32853).							
10.51**	Form of Performance Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2016, filed on March 9, 2016, File No. 1-06196).							
10.52**	Waiver of Certain Rights to Terminate for Good Reason between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.66 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).							
10.53**	Notice of Non-Renewal of Employment Agreement between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.67 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).							
10.54**	Retention Award Agreement, dated as of October 24, 2015, between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.68 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).							
10.55	\$1,000,000,000 Credit Agreement, dated as of June 14, 2017, among Duke Energy Corporation, the lenders listed therein, The Bank of Nova Scotia, as Administrative Agent, PNC Bank, National Association, Sumitomo Mitsui Banking Corporation and TD Bank, N.A., as CO-Syndication Agents, and Bank of China, New York Branch, BNP Paribas, Santander Bank, N.A. and U.S. Bank National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-32853).							
10.56	\$250,000,000 Term Loan Credit Agreement, dated as of June 14, 2017, among Piedmont Natural Gas Company, Inc. the lenders listed therein, U.S. Bank National Association, as Administrative Agent, Branch Banking and Trust Company and Regions Bank, as Co-Syndication Agents and PNC Bank, National Association, as Documentation Agent (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-06196).							X

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.56.1	X							
10.57								X
10.58								X
10.58.1								X
10.58.2								X
10.59								X
10.60								X
*21	X							
*23.1.1	X							
*23.1.2		X						
*23.1.3				X				
*23.1.4					X			
*23.1.5						X		
*23.1.6							X	
*23.1.7								X
*24.1	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
*24.2	Certified copy of resolution of the Board of Directors of the registrant authorizing power of attorney.	X							
*31.1.1	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.1.2	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						
*31.1.3	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X					
*31.1.4	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				
*31.1.5	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X			
*31.1.6	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.						X		
*31.1.7	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.							X	
*31.1.8	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.								X
*31.2.1	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.2.2	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						
*31.2.3	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X					
*31.2.4	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				
*31.2.5	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X			
*31.2.6	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.						X		
*31.2.7	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.							X	
*31.2.8	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.								X
*32.1.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X							
*32.1.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X						
*32.1.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X					
*32.1.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X				
*32.1.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X			
*32.1.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.						X		
*32.1.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.							X	

PART IV

Exhibit Number	Description	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
*32.1.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*32.2.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X							
*32.2.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X						
*32.2.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X					
*32.2.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X				
*32.2.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X			
*32.2.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.						X		
*32.2.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.							X	
*32.2.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*101.INS	XBRL Instance Document	X	X	X	X	X	X	X	X
*101.SCH	XBRL Taxonomy Extension Schema Document	X	X	X	X	X	X	X	X
*101.CAL	XBRL Taxonomy Calculation Linkbase Document	X	X	X	X	X	X	X	X
*101.LAB	XBRL Taxonomy Label Linkbase Document	X	X	X	X	X	X	X	X
*101.PRE	XBRL Taxonomy Presentation Linkbase Document	X	X	X	X	X	X	X	X
*101.DEF	XBRL Taxonomy Definition Linkbase Document	X	X	X	X	X	X	X	X

The total amount of securities of each respective registrant or its subsidiaries authorized under any instrument with respect to long-term debt not filed as an exhibit does not exceed 10 percent of the total assets of such registrant and its subsidiaries on a consolidated basis. Each registrant agrees, upon request of the SEC, to furnish copies of any or all of such instruments to it.



BUILDING A SMARTER ENERGY FUTURE®

Duke Energy Kentucky, Inc.
Financial Statements
and Independent Auditors' Report

December 31, 2017

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December 31, 2017

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Glossary of Terms

The following terms or acronyms used in this document are defined below:

Term or Acronym	Definition
ADIT	Accumulated Deferred Income Tax
AFUDC	Allowance for Funds Used During Construction
ALJ	FERC Administrative Law Judge
AMI	Advanced Metering Infrastructure
ANPRM	Advance Notice of Proposed Rulemaking
ARO	Asset Retirement Obligation
ASC	Accounting Standards Codification
CCR	Coal Combustion Residuals
CO ₂	Carbon Dioxide
CP	Capacity Performance
CPCN	Certificate of Public Convenience and Necessity
CPP	Clean Power Plan
CRC	Cinergy Receivables Company, LLC
Duke Energy	Duke Energy Corporation
Duke Energy Indiana	Duke Energy Indiana, LLC
Duke Energy Kentucky	Duke Energy Kentucky, Inc.
Duke Energy Ohio	Duke Energy Ohio, Inc.
EPA	U.S. Environmental Protection Agency
FASB	Financial Accounting Standards Board
FERC	Federal Energy Regulatory Commission
FRR	Fixed Resource Requirement
GAAP	Generally Accepted Accounting Principles in the U.S.
IRS	Internal Revenue Service
KPSC	Kentucky Public Service Commission
LIBOR	London Interbank Offered Rate
Master Trust	Master Retirement Trust
MISO	Midcontinent Independent System Operator, Inc.
MVP	Multi Value Projects
NPR	Notice of Proposed Rulemaking
PJM	PJM Interconnection, LLC
RTO	Regional Transmission Organization
SAB 118	Staff Accounting Bulletin No. 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act
Tax Act	Tax Cut and Jobs Act
U.S.	United States
VIE	Variable Interest Entity



Deloitte & Touche LLP
550 South Tryon Street
Suite 2500
Charlotte, NC 28202
USA
Tel: +1 704 887 1500
www.deloitte.com

INDEPENDENT AUDITORS' REPORT

To the Board of Directors and Stockholder of
Duke Energy Kentucky, Inc.
Charlotte, North Carolina

We have audited the accompanying financial statements of Duke Energy Kentucky, Inc. (the "Company"), which comprise the balance sheets as of December 31, 2017 and 2016, and the related statements of operations, changes in equity, and cash flows for the years then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Company's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Duke Energy Kentucky, Inc. as of December 31, 2017 and 2016, and the results of its operations and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Deloitte + Touche LLP

March 14, 2018

DUKE ENERGY KENTUCKY, INC.
STATEMENTS OF OPERATIONS

(in thousands)	Years Ended December 31,	
	2017	2016
Operating Revenues:		
Electric	\$ 337,118	\$ 346,124
Natural gas	93,620	90,216
Total operating revenues	430,738	436,340
Operating Expenses:		
Fuel used in electric generation and purchased power	119,156	132,681
Cost of natural gas	37,249	32,611
Operation, maintenance and other	143,321	140,573
Depreciation and amortization	47,667	43,668
Property and other taxes	14,339	14,637
Impairment charges	1,190	—
Total operating expenses	362,922	364,170
(Loss) Gain on Sales of Assets, net	(99)	28
Operating Income	67,717	72,198
Other Income and Expenses, net	4,599	2,321
Interest Expense	14,078	14,888
Income Before Income Taxes	58,238	59,631
Income Tax (Benefit) Expense	(1,161)	17,047
Net Income	\$ 59,399	\$ 42,584

See Notes to Financial Statements

DUKE ENERGY KENTUCKY, INC.
BALANCE SHEETS

(in thousands, except share amounts)	December 31,	
	2017	2016
ASSETS		
Current Assets:		
Cash and cash equivalents	\$ 1,687	\$ 6,534
Receivables (net of allowance for doubtful accounts of \$234 at 2017 and \$141 at 2016)	3,537	1,663
Receivables from affiliated companies	22,286	22,762
Notes receivable from affiliated companies	14,671	—
Inventory	43,793	49,037
Regulatory assets	4,356	7,623
Collateral assets	1,975	13,566
Other	2,913	5,706
Total current assets	95,218	106,891
Property, Plant and Equipment:		
Cost	\$ 2,292,085	\$ 2,116,219
Accumulated depreciation and amortization	(977,244)	(948,144)
Net property, plant and equipment	1,314,841	1,168,075
Other Noncurrent Assets		
Regulatory Assets	118,738	92,462
Other	2,175	2,720
Total other noncurrent assets	120,913	95,182
Total Assets	\$ 1,530,972	\$ 1,370,148
LIABILITIES AND EQUITY		
Current Liabilities:		
Accounts payable	\$ 48,797	\$ 31,636
Accounts payable to affiliated companies	15,774	12,573
Notes payable to affiliated companies	—	19,656
Taxes accrued	17,602	14,082
Interest accrued	5,387	4,230
Current maturities of long-term debt	885	686
Asset retirement obligations	3,378	—
Regulatory liabilities	6,892	12,173
Other	17,335	18,561
Total current liabilities	116,050	113,597
Long-term Debt	425,295	336,360
Long-term Debt payable to affiliated companies	25,000	25,000
Other Noncurrent Liabilities		
Deferred income taxes	186,437	311,636
Asset retirement obligations	51,204	52,822
Regulatory liabilities	171,617	51,878
Accrued pension and other post-retirement benefit costs	17,418	14,975
Other	26,537	26,865
Total other noncurrent liabilities	453,213	458,176
Commitments and Contingencies		
Equity		
Common Stock, \$15.00 par value, 1,000,000 shares authorized and 585,333 shares outstanding	8,780	8,780
Additional paid-in-capital	182,494	167,494
Retained earnings	320,140	260,741
Total equity	511,414	437,015
Total Liabilities and Equity	\$ 1,530,972	\$ 1,370,148

See Notes to Financial Statements

DUKE ENERGY KENTUCKY, INC.
STATEMENTS OF CASH FLOWS

(in thousands)	Years Ended December 31,	
	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES		
Net income	\$ 59,399	\$ 42,584
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation, amortization	48,235	44,683
Equity component of AFUDC	(3,358)	(1,332)
Losses (Gains) on sales of assets, net	99	(28)
Impairment charges	1,190	—
Deferred income taxes	12,367	17,988
Accrued pension and other post-retirement benefit costs	578	1,527
Contributions to qualified pension plans	(1,324)	(1,443)
Payments for asset retirement obligations	(7,132)	(4,757)
(Increase) decrease in:		
Receivables	(1,663)	3,799
Receivables from affiliated companies	476	(11,263)
Inventory	6,521	(4,896)
Collateral assets	11,590	183
Other current assets	3,104	14,997
Increase (decrease) in:		
Accounts payable	(2,237)	660
Accounts payable to affiliated companies	3,201	(1,853)
Taxes accrued	3,520	7,028
Other current liabilities	(7,791)	8,235
Other assets	(12,893)	(7,530)
Other liabilities	(1,996)	14
Net cash provided by operating activities	111,886	108,596
CASH FLOWS FROM INVESTING ACTIVITIES		
Capital expenditures	(180,271)	(100,899)
Notes receivable from affiliated companies	(14,671)	—
Other	(5,866)	(7,081)
Net cash used in investing activities	(200,808)	(107,980)
CASH FLOWS FROM FINANCING ACTIVITIES		
Proceeds from the issuance of long-term debt	89,615	94,385
Payments for the redemption of long-term debt	(686)	(51,520)
Notes payable to affiliated companies	(19,656)	(36,087)
Capital contributions from parent	15,000	—
Dividends to parent	—	(10,001)
Other	(198)	—
Net cash provided by (used in) financing activities	84,075	(3,223)
Net decrease in cash and cash equivalents	(4,847)	(2,607)
Cash and cash equivalents at beginning of period	6,534	9,141
Cash and cash equivalents at end of period	\$ 1,687	\$ 6,534
Supplemental Disclosures:		
Cash paid for interest, net of amount capitalized	\$ 12,352	\$ 12,986
Cash received from income taxes	(15,767)	(18,845)
Significant non-cash transactions:		
Accrued capital expenditures	32,369	12,594

See Notes to Financial Statements

DUKE ENERGY KENTUCKY, INC.
STATEMENTS OF CHANGES IN EQUITY

(in thousands)	Common Stock	Additional Paid-in Capital	Retained Earnings	Total Equity
Balance at December 31, 2015	\$ 8,780	\$ 167,494	\$ 228,158	\$ 404,432
Net income	—	—	42,584	42,584
Dividends to parent	—	—	(10,001)	(10,001)
Balance at December 31, 2016	\$ 8,780	\$ 167,494	\$ 260,741	\$ 437,015
Net income	—	—	59,399	59,399
Contribution from parent	—	15,000	—	15,000
Balance at December 31, 2017	\$ 8,780	\$ 182,494	\$ 320,140	\$ 511,414

See Notes to Financial Statements

1. ORGANIZATION AND BASIS OF PRESENTATION

NATURE OF OPERATIONS AND BASIS OF PRESENTATION

Duke Energy Kentucky, Inc. (Duke Energy Kentucky) is a combination electric and natural gas public utility company that provides service in northern Kentucky. Duke Energy Kentucky's principal lines of business include generation, transmission, distribution and sale of electricity, as well as the transportation and sale of natural gas. Duke Energy Kentucky is subject to the regulatory provisions of the Kentucky Public Service Commission (KPSC) and the Federal Energy Regulatory Commission (FERC). Duke Energy Kentucky's common stock is wholly owned by Duke Energy Ohio, Inc. (Duke Energy Ohio), an indirect wholly owned subsidiary of Duke Energy Corporation (Duke Energy).

Certain prior year amounts have been reclassified to conform to the current year presentation.

Other Current Liabilities

The following table provides detail of certain amounts included in Other within Current Liabilities.

(in thousands)	Location	December 31,	
		2017	2016
Customer Deposits	Current Liabilities	9,860	10,270

SIGNIFICANT ACCOUNTING POLICIES

Use of Estimates

In preparing financial statements that conform to generally accepted accounting principles in the United States (U.S.) (GAAP), Duke Energy Kentucky must make estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses and the disclosure of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Regulatory Accounting

The majority of Duke Energy Kentucky's operations are subject to price regulation for the sale of electricity and natural gas by the KPSC or FERC. When prices are set on the basis of specific costs of the regulated operations and an effective franchise is in place such that sufficient natural gas or electric services can be sold to recover those costs, Duke Energy Kentucky applies regulatory accounting. Regulatory accounting changes the timing of the recognition of costs or revenues relative to a company that does not apply regulatory accounting. As a result, regulatory assets and regulatory liabilities are recognized on the Balance Sheets. Regulatory assets and liabilities are amortized consistent with the treatment of the related cost in the ratemaking process. See Note 2 for further information.

Regulated Fuel and Purchased Gas Adjustment Clauses

Duke Energy Kentucky utilizes cost-tracking mechanisms, commonly referred to as fuel adjustment clauses. These clauses allow for the recovery of fuel and fuel-related costs and portions of purchased power costs through surcharges on customer rates. The difference between the costs incurred and the surcharge revenues is recorded as an adjustment to Operating Expenses - Fuel used in electric generation and purchased power or Operating Expenses - Cost of natural gas on the Statements of Operations with an off-setting impact on regulatory assets or liabilities.

Cash and Cash Equivalents

All highly liquid investments with maturities of three months or less at the date of acquisition are considered cash equivalents.

Inventory

Inventory is used for operations and is recorded primarily using the average cost method. Inventory related to regulated operations is valued at historical cost. Materials and supplies are recorded as inventory when purchased and subsequently charged to expense or capitalized to property, plant and equipment when installed. Inventory, including excess or obsolete inventory, is written-down to the lower of cost or market value. Once inventory has been written-down, it creates a new cost basis for the inventory that is not subsequently written-up. Provisions for inventory write-offs were not material at December 31, 2017, and 2016. The components of inventory are presented in the table below.

(in thousands)	December 31,	
	2017	2016
Materials and supplies	\$ 19,300	\$ 21,964
Coal	17,354	19,499
Natural gas, oil and other	7,139	7,574
Total inventory	\$ 43,793	\$ 49,037

Long-Lived Asset Impairments

Duke Energy Kentucky evaluates long-lived assets for impairment when circumstances indicate the carrying value of those assets may not be recoverable. An impairment exists when a long-lived asset's carrying value exceeds the estimated undiscounted cash flows expected to result from the use and eventual disposition of the asset. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. If the carrying value of the long-lived asset is not recoverable based on these estimated future undiscounted cash flows, the carrying value of the asset is written-down to its then-current estimated fair value and an impairment charge is recognized.

Duke Energy Kentucky assesses the fair value of long-lived assets using various methods, including recent comparable third-party sales, internally developed discounted cash flow analysis and analysis from outside advisors. Triggering events to reassess cash flows may include, but are not limited to, significant changes in commodity prices, the condition of an asset or management's interest in selling the asset.

Property, Plant and Equipment

Property, plant and equipment are stated at the lower of depreciated historical cost net of any disallowances or fair value, if impaired. Duke Energy Kentucky capitalizes all construction-related direct labor and material costs, as well as indirect construction costs such as general engineering, taxes and financing costs. See "Allowance for Funds Used During Construction (AFUDC)" and "Asset Retirement Obligations (ARO)" below for further information on capitalized financing costs and legal obligations associated with the retirement of property, plant and equipment. Costs of renewals and betterments that extend the useful life of property, plant and equipment are also capitalized. The cost of repairs, replacements and major maintenance projects, which do not extend the useful life or increase the expected output of the asset, is expensed as incurred. Depreciation is generally computed over the estimated useful life of the asset using the composite straight-line method. Depreciation studies are conducted periodically to update composite rates and are approved by the KPSC and/or the FERC when required. The composite weighted average depreciation rate was 2.2 percent for the years ended December 31, 2017 and 2016.

In general, when Duke Energy Kentucky retires its regulated property, plant and equipment, original cost plus the cost of retirement, less salvage value, is charged to accumulated depreciation. However, when it becomes probable a regulated asset will be retired substantially in advance of its original expected useful life or will be abandoned, the cost of the asset and the corresponding accumulated depreciation is recognized as a separate asset. If the asset is still in operation, the net amount is classified as Generation facilities to be retired, net on the Balance Sheets. If the asset is no longer operating, the net amount is classified in Regulatory assets on the Balance Sheets. When it becomes probable that regulated mass utility assets, such as meters, will be abandoned, the cost of the assets and accumulated depreciation is reclassified to regulatory assets for the amounts recoverable in rates. The carrying value of the asset is based on historical cost if Duke Energy Kentucky is allowed to recover the remaining net book value and a return equal to at least the incremental borrowing rate. If not, an impairment is recognized to the extent the net book value of the asset exceeds the present value of future revenues discounted at the incremental borrowing rate.

When Duke Energy Kentucky sells entire regulated operating units, the original cost and accumulated depreciation and amortization balances are removed from Property, Plant and Equipment on the Balance Sheets. Any gain or loss is recorded in earnings, unless otherwise required by the applicable regulatory body.

See Note 6 for further information.

Allowance for Funds Used During Construction (AFUDC)

For regulated operations, the debt and equity costs of financing the construction of property, plant and equipment are reflected as AFUDC and capitalized as a component of the cost of property, plant and equipment. AFUDC equity is reported on the Statements of Operations as non-cash income in Other Income and Expenses, net. AFUDC debt is reported as a non-cash offset to Interest Expense. After construction is completed, Duke Energy Kentucky is permitted to recover these costs through their inclusion in rate base and the corresponding subsequent depreciation or amortization of those regulated assets.

AFUDC equity, a permanent difference for income taxes, reduces the effective tax rate when capitalized and increases the effective tax rate when depreciated or amortized.

Asset Retirement Obligations (ARO)

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment. When recording an ARO the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made, and the liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be recoverable.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. Duke Energy Kentucky receives amounts to fund the cost of the ARO from regulated revenues. As a result, the net of amounts recovered in regulated revenues, accretion expense and depreciation of the associated asset is deferred as a regulatory asset or liability.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis.

See Note 5 for further information.

Comprehensive Income

Comprehensive income is defined as the change in equity of a business enterprise during a period from transactions and other events and circumstances from non-owner sources. Comprehensive income is the same as net income for all periods presented. Therefore, a separate statement of comprehensive income is not included in the accompanying financial statements.

Revenue Recognition and Unbilled Revenue

Revenues on sales of electricity and natural gas are recognized when service is provided or the product is delivered. Unbilled revenues are recognized by applying customer billing rates to the estimated volumes of energy or natural gas delivered but not yet billed. Unbilled revenues can vary significantly from period to period as a result of seasonality, weather, customer usage patterns, customer mix, average price in effect for customer classes, timing of rendering customer bills and meter reading schedules, and the impact of weather normalization or margin decoupling mechanisms.

Duke Energy Kentucky sells, on a revolving basis, nearly all of its retail accounts receivable, including receivables for unbilled revenues, to an affiliate, Cinergy Receivables Company, LLC (CRC). As discussed further in Note 11, Duke Energy Kentucky accounts for the transfers of receivables to CRC as sales. Accordingly, the receivables sold are not reflected on the Balance Sheets. Receivables for unbilled revenues related to retail accounts receivable included in the sales of accounts receivable to CRC at December 31, 2017 and 2016, were \$25 million and \$23 million, respectively.

Unbilled revenues, which are recorded as Receivables on the Balance Sheets and exclude receivables sold to CRC, primarily include wholesale related revenues and totaled \$516 thousand and \$79 thousand at December 31, 2017 and 2016, respectively.

Derivatives and Hedging

Derivative and non-derivative instruments may be used in connection with commodity price and interest rate activities, including swaps, futures, forwards and options. All derivative instruments, except those that qualify for the normal purchase/normal sale exception, are recorded on the Balance Sheets at fair value. For activity subject to regulatory accounting, gains and losses on derivative contracts are reflected as regulatory assets or liabilities and not as other comprehensive income or current period income. As a result, changes in fair value of these derivatives have no immediate earnings impact.

See Note 9 for further information.

Unamortized Debt Premium, Discount and Expense

Premiums, discounts and expenses incurred with the issuance of outstanding long-term debt are amortized over the term of the debt issue. The gain or loss on extinguishment associated with refinancing higher-cost debt obligations used to finance regulated assets is amortized. Amortization expense is recorded as Interest Expense in the Statements of Operations and is reflected as Depreciation and amortization within Net cash provided by operating activities on the Statements of Cash Flows.

Premiums, discounts and expenses are presented as an adjustment to the carrying value of the debt amount and included in Long-Term Debt on the Balance Sheets presented.

Loss Contingencies and Environmental Liabilities

Contingent losses are recorded when it is probable a loss has occurred and can be reasonably estimated. When a range of the probable loss exists and no amount within the range is a better estimate than any other amount, the minimum amount in the range is recorded. Unless otherwise required by GAAP, legal fees are expensed as incurred.

Environmental liabilities are recorded on an undiscounted basis when environmental remediation or other liabilities become probable and can be reasonably estimated. Environmental expenditures related to past operations that do not generate current or future revenues are expensed. Environmental expenditures related to operations that generate current or future revenues are expensed or capitalized, respectively. Certain environmental expenditures receive regulatory accounting treatment and are recorded as regulatory assets.

See Notes 2 and 3 for further information.

Pension and Other Post-Retirement Benefit Plans

Duke Energy maintains qualified, non-qualified and other post-retirement benefit plans. Eligible employees of Duke Energy Kentucky participate in the respective qualified, non-qualified and other post-retirement benefit plans and Duke Energy Kentucky is allocated its proportionate share of benefit costs. See Note 12 for further information.

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and foreign jurisdictional returns. Duke Energy Kentucky entered into a tax-sharing agreement with Duke Energy, and income taxes recorded represent amounts Duke Energy Kentucky would incur as a separate C-Corporation. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. Investment tax credits associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

Accumulated deferred income taxes (ADIT) are valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. Other impacts of the Tax Cuts and Jobs Act (Tax Act) have been recorded on a provisional basis, see Note 13, "Income Taxes," for additional information. If Duke Energy's estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, revised to incorporate new accounting principles, or changes in the expected timing or manner of the reversal then Duke Energy's results of operations could be impacted.

Tax-related interest and penalties are recorded in Interest Expense and Other Income and Expenses, net, in the Statements of Operations.

See Note 13 for further information.

NEW ACCOUNTING STANDARDS

The new accounting standards adopted for 2017 and 2016 had no material impact on the presentation or results of operations, cash flows or financial position of Duke Energy Kentucky. The following new Accounting Standards Updates have been issued, but have not yet been adopted by Duke Energy Kentucky, as of December 31, 2017.

Revenue from Contracts with Customers. In May 2014, the Financial Accounting Standards Board (FASB) issued revised accounting guidance for revenue recognition from contracts with customers. The core principle of this guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The amendments in this update also require disclosure of sufficient information to allow users to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers.

Duke Energy Kentucky has identified material revenue streams, which served as the basis for accounting analysis and documentation of the impact of this guidance on revenue recognition. The accounting analysis included reviewing representative contracts and tariffs for each material revenue stream. Most of Duke Energy Kentucky's revenue will be in scope of the new guidance. The majority of our sales, including energy provided to residential customers, are from tariff offerings that provide natural gas or electricity without a defined contractual term ("at-will"). For such arrangements, revenue from contracts with customers will be equivalent to the electricity or natural gas supplied and billed in that period (including estimated billings). As such, there will not be a significant shift in the timing or pattern of revenue recognition for such sales.

Duke Energy Kentucky has monitored the activities of the power and utilities industry revenue recognition task force including draft accounting positions released in October 2017 and the impact, if any, on Duke Energy Kentucky's specific contracts and conclusions. Potential revisions to processes, policies and controls, primarily related to evaluating supplemental disclosures required as a result of adopting this guidance, will be evaluated and implemented as necessary. Some revenue arrangements, such as alternative revenue programs and leases, are excluded from the scope of the new revenue recognition guidance and, therefore, will be accounted for and evaluated for separate presentation and disclosure under other relevant accounting guidance.

Duke Energy Kentucky intends to use the modified retrospective method of adoption effective January 1, 2018. Under the modified retrospective method of adoption, prior year reported results are not restated and a cumulative-effect adjustment, if applicable, is recorded to retained earnings at January 1, 2018, as if the standard had always been in effect. In addition, disclosures, if applicable, include a comparison to what would have been reported for 2018 under the previous revenue recognition rules to assist financial statement users in understanding how revenue recognition has changed as a result of this standard and to facilitate comparability with prior year reported results, which are not restated under the modified retrospective approach as described above. Duke Energy Kentucky will utilize certain practical expedients including applying this guidance to open contracts at the date of adoption and recognizing revenues for certain contracts under the invoice practical expedient, which allows revenue recognition to be consistent with invoiced amounts (including estimated billings) provided certain criteria are met, including consideration of whether the invoiced amounts reasonably represent the value provided to customers. While the adoption of this guidance is not expected to have a material impact on either the timing or amount of revenues recognized in Duke Energy Kentucky's financial statements, Duke Energy Kentucky anticipates additional disclosures around the nature, amount, timing and uncertainty of our revenues and cash flows arising from contracts with customers. Duke Energy Kentucky continues to evaluate what information will be most useful for users of the financial statements, including information already provided in disclosures outside of the financial statement footnotes. These additional disclosures are expected to include the disaggregation of revenues by customer class.

Financial Instruments Classification and Measurement. In January 2016, the FASB issued revised accounting guidance for the classification and measurement of financial instruments. Changes in the fair value of all equity securities will be required to be recorded in net income. Current GAAP allows some changes in fair value for available-for-sale equity securities to be recorded in accumulated other comprehensive income. Additional disclosures will be required to present separately the financial assets and financial liabilities by measurement category and form of financial asset. An entity's equity investments that are accounted for under the equity method of accounting are not included within the scope of the new guidance.

For Duke Energy Kentucky, the revised accounting guidance is effective for interim and annual periods beginning January 1, 2018, by recording a cumulative effect adjustment to retained earnings as of January 1, 2018. This guidance is expected to have minimal impact on the Statements of Operations as changes in the fair value of most of the Duke Energy Kentucky's available-for-sale equity securities are deferred as regulatory assets or liabilities pursuant to accounting guidance for regulated operations.

Leases. In February 2016, the FASB issued revised accounting guidance for leases. The core principle of this guidance is that a lessee should recognize the assets and liabilities that arise from leases on the balance sheet.

For Duke Energy Kentucky, this guidance is effective for interim and annual periods beginning January 1, 2019. The guidance is applied using a modified retrospective approach. Upon adoption, Duke Energy Kentucky expects to elect the practical expedients, which would require no reassessment of whether existing contracts are or contain leases as well as no reassessment of lease classification for existing leases. Additionally, we expect to adopt the optional transition practical expedient allowing the entity not to reassess the accounting for land easements that currently exist at the adoption of the lease standard on January 1, 2019. Duke Energy Kentucky is currently evaluating the financial statement impact of adopting this standard and is continuing to monitor industry implementation issues, including easements, pole attachments and renewable Power Purchase Agreements. Other than an expected increase in assets and liabilities, the ultimate impact of the new standard has not yet been determined. Significant system enhancements, including additional processes and controls, will be required to facilitate the identification, tracking and reporting of potential leases based upon requirements of the new lease standard. Duke Energy Kentucky has begun the implementation of a third-party software tool to help with the adoption and ongoing accounting under the new standard.

Retirement Benefits. In March 2017, the FASB issued revised accounting guidance for the presentation of net periodic costs related to benefit plans. Current GAAP permits the aggregation of all the components of net periodic costs on the Consolidated Statement of Operations and does not require the disclosure of the location of net periodic costs on the Consolidated Statement of Operations. Under the amended guidance, the service cost component of net periodic costs must be included within Operating Income within the same line as other compensation expenses. All other components of net periodic costs must be outside of Operating Income. In addition, the updated guidance permits only the service cost component of net periodic costs to be capitalized to Inventory or Property, Plant and Equipment. This represents a change from current GAAP, which permits all components of net periodic costs to be capitalized. These amendments should be applied retrospectively for the presentation of the various components of net periodic costs and prospectively for the change in eligible costs to be capitalized. The guidance allows for a practical expedient that permits a company to use amounts disclosed in prior-period financial statements as the estimation basis for applying the retrospective presentation requirements.

For Duke Energy Kentucky, this guidance is effective for interim and annual periods beginning January 1, 2018. Duke Energy Kentucky currently presents the total non-capitalized net periodic costs within Operation, maintenance and other on the Consolidated Statement of Operations. The adoption of this guidance will result in a retrospective change to reclassify the presentation of the non-service cost (benefit) components of net periodic costs to Other income and expenses. Duke Energy Kentucky intends to utilize the practical expedient for retrospective presentation. The change in net periodic costs eligible for capitalization is applicable prospectively. Since Duke Energy Kentucky's service cost component is expected to be greater than the total net periodic costs, the change will result in increased capitalization of net periodic costs, higher Operation, maintenance and other and higher Other income and expenses. The resulting impact to Duke Energy Kentucky is expected to be an immaterial increase in Net Income resulting from the limitation of eligible capitalization of net periodic costs to the service cost component, which is larger than the total net periodic costs.

2. REGULATORY MATTERS

REGULATORY ASSETS AND LIABILITIES

Duke Energy Kentucky records assets and liabilities that result from the ratemaking process. See Note 1 for further information.

The following table represents the regulatory assets and liabilities on the Balance Sheets.

(In thousands)	December 31,		Recovery/Refund Period Ends
	2017	2016	
Regulatory Assets^(a):			
Accrued pension and other post-retirement benefits	\$ 34,682	\$ 31,620	(b)
East Bend deferrals	45,485	32,267	(c)
Demand side management/Energy efficiency costs	2,226	1,661	(c)(d)
Hedge costs and other deferrals	4,938	5,521	(e)
Storm cost deferrals	4,913	4,913	(c)
AROs – coal ash	16,721	11,412	(c)(g)
Vacation accrual	1,394	1,348	2018
Deferred debt expense	1,188	1,455	2036
Deferred fuel and purchased gas costs	179	3,937	2018
Carbon management research grant	1,800	1,600	(c)
Deferred gas integrity costs	2,887	2,173	(c)
Net regulatory asset related to income taxes	—	2,178	(g)
AMI	6,087	—	(c)
Other	594	—	
Total regulatory assets	123,094	100,085	
Less: current portion	4,356	7,623	
Total noncurrent regulatory assets	\$ 118,738	\$ 92,462	
Regulatory Liabilities^(a):			
Costs of removal	\$ 39,707	\$ 45,878	(f)
Net regulatory liability related to income taxes	132,721	—	(c)
Accrued pension and other post-retirement benefits	4,833	5,550	(b)
Hedge costs and other deferrals	33	2,502	(e)
Deferred fuel and purchased gas costs	(204)	8,456	2018
Profit sharing mechanism	1,405	1,215	2018
Other	14	450	(c)
Total regulatory liabilities	178,509	64,051	
Less: current portion	6,892	12,173	
Total noncurrent regulatory liabilities	\$ 171,617	\$ 51,878	

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
- (b) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans, which is approximately thirteen years. See Note 12 for further information.
- (c) The expected recovery or refund period varies for these amounts or has not been determined.
- (d) Deferred costs are recovered through a rider mechanism.
- (e) Recovery varies over the life of the associated instrument.
- (f) Represents funds received from customers to cover future removal of property, plant and equipment from retired or abandoned sites as property is retired. Included in rate base and recovered over the life of associated assets.
- (g) Certain amounts are recovered through rates.

RATE RELATED INFORMATION

The KPSC approves rates for retail electric and natural gas services within the Commonwealth of Kentucky. The FERC approves rates for electric sales to wholesale customers served under cost-based rates, as well as sales of transmission service.

Tax Act Impacts

On December 22, 2017, President Trump signed the Tax Act into law, which, among other provisions, reduces the maximum federal corporate income tax rate from 35 percent to 21 percent, effective January 1, 2018. As a result of the Tax Act, Duke Energy Kentucky revalued its deferred tax assets and deferred tax liabilities, as of December 31, 2017, to account for the future impact of lower corporate tax rates on these deferred tax amounts. For the Duke Energy Kentucky regulated operations, where the reduction is expected to be accounted for and applied to customers' rates in future commission proceedings, including rate proceedings, the net remeasurement has been deferred as a regulatory liability. KPSC is reviewing the Tax Act to determine the potential impacts on customer rates. Beginning in January 2018, Duke Energy Kentucky will defer the estimated ongoing impacts of the Tax Act that are expected to be returned to customers. See Note 13 for additional information.

Duke Energy Kentucky Rate Case

On September 1, 2017, Duke Energy Kentucky filed a rate case with the KPSC requesting an increase in electric base rates of approximately \$49 million, which represents an approximate 15 percent increase on the average customer bill. The rate increase is driven by increased investment in utility plant, increased operations and maintenance expenses and recovery of regulatory assets. The application also includes implementation of the Environmental Surcharge Mechanism to recover environmental costs not included in base rates, requests to establish a Distribution Capital Investment Rider to recover incremental costs of specific programs, requests to establish a FERC Transmission Cost Reconciliation Rider to recover escalating transmission costs and modification to the Profit Sharing Mechanism to increase customers' share of proceeds from the benefits of owning generation and to mitigate shareholder risks associated with that generation. An evidentiary hearing ended March 8, 2018. Duke Energy Kentucky anticipates that rates will go into effect in mid-April 2018. Duke Energy Kentucky cannot predict the outcome of this matter.

Woodsdale Station Fuel System Filing

On June 9, 2015, the FERC ruled in favor of PJM Interconnection, LLC (PJM) on a revised Tariff and Reliability Assurance Agreement including implementation of a Capacity Performance (CP) proposal and to amend sections of the Operating Agreement related to generation non-performance. The CP proposal includes performance-based penalties for non-compliance. Duke Energy Kentucky is a Fixed Resource Requirement (FRR) entity, and therefore is subject to the compliance standards through its FRR plans. A partial CP obligation will apply to Duke Energy Kentucky in the delivery year beginning June 1, 2019, with full compliance beginning June 1, 2020. Duke Energy Kentucky has developed strategies for CP compliance investments. On December 21, 2017, the KPSC issued an order approving Duke Energy Kentucky's request for a certificate of public convenience and necessity (CPCN) to construct an ultra-low sulfur diesel backup fuel system for the Woodsdale Station. The backup fuel system is projected to cost approximately \$55 million and is anticipated to be in service prior to the CP compliance deadline of April 2019.

East Bend Coal Ash Basin Filings

On December 2, 2016, Duke Energy Kentucky filed with the KPSC a request for a CPCN for construction projects necessary to close and repurpose an ash basin at the East Bend Station as a result of current and proposed U.S. Environmental Protection Agency (EPA) regulations. Duke Energy Kentucky estimated a total cost of approximately \$93 million in the filing and expects in-service date by the first quarter of 2021. On June 6, 2017, the KPSC approved the CPCN request.

Dry Bottom Ash Conversion

On July 28, 2016, Duke Energy Kentucky filed with the KPSC a request for approval of a CPCN to convert to dry bottom ash at the East Bend station. The project is necessary to comply with various environmental law requirements. The project is estimated to cost approximately \$25 million. On February 23, 2017, the KPSC granted a CPCN for the project.

Advanced Metering Infrastructure (AMI)

On April 25, 2016, Duke Energy Kentucky filed with the KPSC an application for approval of a CPCN for the construction of AMI. Duke Energy Kentucky estimates the \$49 million project will take two years to complete. Duke Energy Kentucky also requested approval to establish a regulatory asset for the remaining book value of existing meter equipment and inventory to be replaced. Duke Energy Kentucky and the Kentucky attorney general entered into a stipulation to settle matters related to the application. On May 25, 2017, the KPSC issued an order to approve the stipulation with certain modifications. On June 1, 2017, Duke Energy Kentucky filed its acceptance of the modifications. The deployment of AMI meters began in third quarter 2017 and is expected to be completed in early 2019. Duke Energy Kentucky has approximately \$6 million included in Regulatory assets on its Consolidated Balance Sheets at December 31, 2017, for the book value of existing meter equipment.

Regional Transmission Organization (RTO) Realignment

Duke Energy Ohio and Duke Energy Kentucky transferred control of their transmission assets to effect a RTO realignment from Midcontinent Independent System Operator, Inc. (MISO) to PJM, effective December 31, 2011.

On December 22, 2010, the KPSC approved Duke Energy Kentucky's request to effect the RTO realignment, subject to a commitment not to seek double-recovery in a future rate case of the transmission expansion fees that may be charged by MISO and PJM in the same period or overlapping periods. Duke Energy Kentucky is not currently recovering PJM or MISO transmission expansion fees through current base rates.

Upon its exit from MISO on December 31, 2011, Duke Energy Kentucky recorded a liability and expense for its exit obligation and share of MISO Transmission Expansion Planning costs, excluding Multi Value Projects (MVP). This liability was recorded within Other in Current Liabilities and Other in Noncurrent Liabilities on the Balance Sheets.

The following table provides a reconciliation of the beginning and ending balance of recorded obligations related to the withdrawal from MISO.

(in thousands)	December 31, 2016	Provision / Adjustments	Cash Reductions	December 31, 2017
MISO withdrawal liability	\$ 19,452	\$ (2,111)	\$ (975)	\$ 16,366

MVP

MISO approved 17 MVP proposals prior to Duke Energy Ohio and Duke Energy Kentucky's exit from MISO on December 31, 2011. Construction of these projects is expected to continue through 2020. Costs of these projects, including operating and maintenance costs, property and income taxes, depreciation and an allowed return, are allocated and billed to MISO transmission owners.

On December 29, 2011, MISO filed a tariff with the FERC providing for the allocation of MVP costs to a withdrawing owner based on monthly energy usage. The FERC set for hearing (i) whether MISO's proposed cost allocation methodology to transmission owners who withdrew from MISO prior to January 1, 2012 is consistent with the tariff at the time of their withdrawal from MISO and, (ii) if not, what the amount of and methodology for calculating any MVP cost responsibility should be. In 2012, MISO estimated Duke Energy Kentucky's MVP obligation over the period from 2012 to 2071 at \$450 million, on an undiscounted basis. On July 16, 2013, a FERC Administrative Law Judge (ALJ) issued an initial decision. Under this initial decision, Duke Energy Ohio and Duke Energy Kentucky would be liable for MVP costs. Duke Energy Ohio and Duke Energy Kentucky filed exceptions to the initial decision, requesting the FERC overturn the ALJ's decision.

On October 29, 2015, the FERC issued an order reversing the ALJ's decision. The FERC ruled the cost allocation methodology is not consistent with the MISO tariff and that Duke Energy Ohio and Duke Energy Kentucky have no liability for MVP costs after withdrawal from MISO. On May 19, 2016, the FERC denied the request for rehearing filed by MISO and the MISO Transmission Owners. On July 15, 2016, the MISO Transmission Owners filed a petition for review with the U.S. Court of Appeals for the Sixth Circuit. On June 21, 2017, a three-judge panel affirmed FERC's 2015 decision holding that Duke Energy Kentucky has no liability for the cost of the MVP projects constructed after Duke Energy Kentucky's withdrawal from MISO. MISO did not file further petitions for review and this matter is now final.

3. COMMITMENTS AND CONTINGENCIES

GENERAL INSURANCE

Duke Energy Kentucky has insurance and/or reinsurance coverage either directly or through indemnification from Duke Energy's captive insurance company, Bison Insurance Company Limited, and its affiliates, consistent with companies engaged in similar commercial operations with similar type properties. Duke Energy Kentucky's coverage includes (i) commercial general liability coverage for liabilities arising to third parties for bodily injury and property damage; (ii) workers' compensation; (iii) automobile liability coverage; and (iv) property coverage for all real and personal property damage. Real and personal property damage coverage excludes electric transmission and distribution lines, but includes damages arising from boiler and machinery breakdowns, earthquakes, flood damage and extra expense, but not outage or replacement power coverage. All coverage is subject to certain deductibles or retentions, sublimits, exclusions, terms and conditions that are common for companies with similar types of operations. Duke Energy Kentucky self-insures its electric transmission and distribution lines against loss due to storm damage and other natural disasters.

The cost of Duke Energy Kentucky's coverage can fluctuate year to year reflecting claims history and conditions of the insurance and reinsurance markets.

In the event of a loss, terms and amounts of insurance and reinsurance available might not be adequate to cover claims and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on Duke Energy Kentucky's results of operations, cash flows or financial position. Duke Energy Kentucky is responsible to the extent losses may exceed limits of the coverage available.

ENVIRONMENTAL

Duke Energy Kentucky is subject to federal, state, and local regulations regarding air and water quality, hazardous and solid waste disposal, and other environmental matters. These regulations can be changed from time to time, imposing new obligations on Duke Energy Kentucky.

Remediation Activities

In addition to the AROs discussed in Note 5, Duke Energy Kentucky is responsible for environmental remediation at various sites. These include some properties that are part of ongoing operations and sites formerly owned or used by Duke Energy Kentucky. These sites are in various stages of investigation, remediation and monitoring. Managed in conjunction with relevant federal, state and local agencies, remediation activities vary based upon site condition and location, remediation requirements, complexity and sharing of responsibility. If remediation activities involve joint and several liability provisions, strict liability, or cost recovery or contribution actions, Duke Energy Kentucky could potentially be held responsible for environmental impacts caused by other potentially responsible parties, and may also benefit from insurance policies or contractual indemnities that cover some or all cleanup costs. Liabilities are recorded when losses become probable and are reasonably estimable. The total costs that may be incurred cannot be estimated because the extent of environmental impact, allocation among potentially responsible parties, remediation alternatives and/or regulatory decisions have not yet been determined. Additional costs associated with remediation activities are likely to be incurred in the future and could be significant. Costs are typically expensed as Operation, maintenance and other in the Statements of Operations unless regulatory recovery of the costs is deemed probable.

Duke Energy Kentucky has accrued approximately \$670 thousand of probable and estimable costs related to its various environmental sites in Other within Other Noncurrent Liabilities on the Balance Sheets as of December 31, 2017 and 2016. Additional losses in excess of recorded reserves are expected to be immaterial for the stages of investigation, remediation and monitoring for the environmental sites that have been evaluated. The maximum amount of the range for all stages of Duke Energy Kentucky's environmental sites cannot be determined at this time.

Clean Power Plan (CPP)

On October 23, 2015, the EPA published in the Federal Register the CPP rule for regulating carbon dioxide (CO₂) emissions from existing fossil fuel-fired electric generating units. The CPP establishes CO₂ emission rates and mass cap goals that apply to fossil fuel-fired generation. Petitions challenging the CPP have been filed by several groups and on February 9, 2016, the Supreme Court issued a stay of the final CPP rule, halting implementation of the CPP until legal challenges are resolved. Kentucky has suspended work on the CPP in response to the stay. Oral arguments before 10 of the 11 judges on the D.C. Circuit Court were heard on September 27, 2016. The court has not issued its opinion in the case.

On March 28, 2017, President Trump signed an executive order directing EPA to review the CPP and determine whether to suspend, revise or rescind the rule. On the same day, the Department of Justice filed a motion with the D.C. Circuit Court requesting that the court stay the litigation of the rule while it is reviewed by EPA. On April 28, 2017, the court issued an order to suspend the litigation for 60 days. On August 8,

2017, the court, on its own motion, extended the suspension of the litigation for an additional 60 days. On October 16, 2017, EPA issued a Notice of Proposed Rulemaking (NPR) to repeal the CPP based on a change to EPA's legal interpretation of the section of the Clean Air Act on which the CPP was based. In the proposal, EPA indicates that it has not determined whether it will issue a rule to replace the CPP, and if it will do so, when and what form that rule will take. The comment period on EPA's NPR ends April 26, 2018. On December 28, 2017, EPA issued an Advance Notice of Proposed Rulemaking (ANPRM) in which it seeks public comment on various aspects of a potential CPP replacement rule. The comment period on the ANPRM ended February 26, 2018. If EPA decides to move forward with a CPP replacement rule, it will need to issue a formal proposal for public comment. Litigation of the CPP remains on hold in the D.C. Circuit Court and the February 2016 U.S. Supreme Court stay of the CPP remains in effect. Duke Energy Kentucky cannot predict the outcome of these matters.

LITIGATION

Duke Energy Kentucky is involved in other legal, tax and regulatory proceedings arising in the ordinary course of business, some of which involve significant amounts. Duke Energy Kentucky believes the final disposition of these proceedings will not have a material effect on its results of operations, cash flows or financial position. Duke Energy Kentucky expenses legal costs related to the defense of loss contingencies as incurred.

OTHER COMMITMENTS AND CONTINGENCIES

General

As part of its normal business, Duke Energy Kentucky is party to various financial guarantees, performance guarantees and other contractual commitments to extend guarantees of credit and other assistance to various third parties. These guarantees involve elements of performance and credit risk which are not included on the Balance Sheets. The possibility of Duke Energy Kentucky having to honor its contingencies is largely dependent upon future operations of various third parties or the occurrence of certain future events.

Operating and Capital Lease Commitments

Duke Energy Kentucky leases vehicles, computer equipment and other property and equipment with various terms and expiration dates. Capitalized lease obligations are classified as Long-Term Debt on the Balance Sheets. Amortization of assets recorded under capital leases is included in Depreciation and amortization on the Statements of Operations.

Rental expense for operating leases, which is included in Operation, maintenance and other on the Statements of Operations, was \$2 million and \$3 million for the years ended December 31, 2017 and 2016, respectively.

The following table presents future minimum lease payments under operating leases, which at inception had a non-cancelable term of more than one year, and capital leases as of December 31, 2017.

(in thousands)	Operating Leases	Capital Leases
2018	\$ 2,649	\$ 975
2019	1,332	461
2020	1,118	236
2021	929	—
2022	676	—
Thereafter	587	—
Minimum annual payments	7,291	1,672
Less: amount representing interest	—	(206)
Total	\$ 7,291	\$ 1,466

4. DEBT AND CREDIT FACILITIES

SUMMARY OF DEBT AND RELATED TERMS

The following table summarizes outstanding debt.

(in thousands)	Weighted Average Interest Rate	Year Due	December 31,	
			2017	2016
Unsecured debt	4.56%	2019 - 2057	\$ 350,000	\$ 260,000
Capital leases	6.16%	2018 - 2020	1,466	2,152
Tax-exempt bonds ^{(a)(b)}	1.74%	2027	76,720	76,720
Money pool borrowings ^{(b)(c)}	1.66%		25,000	44,656
Unamortized debt discount and premium, net			(288)	(338)
Unamortized debt issuance costs			(1,718)	(1,488)
Total debt	3.93%		\$ 451,180	\$ 381,702
Short-term money pool borrowings			—	(19,656)
Current maturities of long-term debt			(885)	(686)
Total long-term debt			\$ 450,295	\$ 361,360

(a) Includes \$27 million that is secured by a bilateral letter of credit agreement.

(b) Floating-rate debt. At December 31, 2016, the weighted average interest rate was 1.05% for tax-exempt bonds.

(c) Includes \$25 million classified as Long-Term Debt Payable to Affiliated Companies on the Balance Sheets.

MATURITIES AND CALL OPTIONS

The following table shows the annual maturities of long-term debt for the next five years and thereafter.

(in thousands)	December 31, 2017
2018	\$ 885
2019	100,210
2020	55
2021	49,873
2022	24,873
Thereafter	275,284
Total long-term debt, including current maturities	\$ 451,180

Duke Energy Kentucky has the ability under certain debt facilities to call and repay the obligation prior to its scheduled maturity. Therefore, the actual timing of future cash repayments could be materially different than as presented above.

SHORT-TERM OBLIGATIONS CLASSIFIED AS LONG-TERM DEBT

Tax-exempt bonds that may be put to Duke Energy Kentucky at the option of the holder and money pool borrowings, which are short-term obligations by nature, are classified as long-term due to Duke Energy Kentucky's intent and ability to utilize such borrowings as long-term financing. As Duke Energy's Master Credit Facility and Duke Energy Kentucky's other bilateral letter of credit agreements have non-cancelable terms in excess of one year as of the balance sheet date, Duke Energy Kentucky has the ability to refinance these short-term obligations on a long-term basis. See "Available Credit Facilities" below for additional information.

At December 31, 2017 and 2016, \$27 million of tax-exempt bonds and \$25 million of money pool borrowings were classified as Long-Term Debt and Long-Term Debt Payable to Affiliated Companies, respectively, on the Balance Sheets.

SIGNIFICANT DEBT ISSUANCES

In September 2017, Duke Energy Kentucky issued \$90 million of unsecured debentures, of which \$30 million carry a fixed interest rate of 3.35 percent and mature September 2029, \$30 million carry a fixed interest rate of 4.11 percent and mature September 2047 and \$30 million carry a fixed interest rate of 4.26 percent and mature September 2057. The debt was issued for capital expenditures, to refinance short-term debt and for general corporate purposes.

In January 2016, Duke Energy Kentucky issued \$95 million of unsecured debentures, of which \$45 million carry a fixed interest rate of 3.42 percent and mature January 15, 2026, and \$50 million carry a fixed interest rate of 4.45 percent and mature January 15, 2046. Proceeds were used to refinance existing debt, including money pool borrowings, capital expenditures and for general corporate purposes.

AVAILABLE CREDIT FACILITIES

In March 2017, Duke Energy amended its Master Credit Facility to increase its capacity from \$7.5 billion to \$8 billion, and to extend the termination date of the facility from January 30, 2020, to March 16, 2022. In January 2018, Duke Energy further amended its Master Credit Facility with consenting lenders to extend \$7.65 billion of the existing \$8 billion Master Credit Facility by one year to March 16, 2023. Duke Energy Kentucky has borrowing capacity under the Master Credit Facility up to a specified sublimit. Duke Energy has the unilateral ability at any time to increase or decrease Duke Energy Kentucky's borrowing sublimit, subject to a maximum sublimit. The amount available to Duke Energy Kentucky under the Master Credit Facility may be reduced to backstop issuances of commercial paper, certain letters of credit and variable-rate demand tax-exempt bonds that may be put to Duke Energy Kentucky at the option of the holder. At December 31, 2017, Duke Energy Kentucky had a borrowing sublimit of \$150 million and available capacity of \$125 million under the Master Credit Facility.

Duke Energy Kentucky and Duke Energy Indiana, LLC (Duke Energy Indiana), a wholly owned subsidiary of Duke Energy, collectively have a \$156 million bilateral letter of credit agreement. In February 2018, Duke Energy Kentucky and Duke Energy Indiana amended the bilateral letter of credit agreement to extend the termination date from February 2019 to February 2023. Duke Energy Kentucky and Duke Energy Indiana may request the issuance of letters of credit up to \$27 million and \$129 million, respectively, on their behalf to support various series of tax-exempt bonds. This credit facility may not be used for any purpose other than to support the tax-exempt bonds.

OTHER DEBT MATTERS

Money Pool

Duke Energy Kentucky receives support for its short-term borrowing needs through participation with Duke Energy and certain of its subsidiaries in a money pool arrangement. Under this arrangement, those companies with short-term funds may provide short-term loans to affiliates participating under this arrangement. The money pool is structured such that Duke Energy Kentucky separately manages its cash needs and working capital requirements. Accordingly, there is no net settlement of receivables and payables related to the money pool between the money pool participants.

Money pool receivable balances are reflected within Notes receivable from affiliated companies in the Balance Sheets. The change in receivables is reflected within Investing Activities on the Statements of Cash Flows. Money pool payable balances are reflected within either Notes payable to affiliated companies or Long-Term Debt Payable to Affiliated Companies on the Balance Sheets. The change in payables are reflected within Financing Activities on the Statements of Cash Flows.

Restrictive Debt Covenants

Duke Energy Kentucky's debt and credit agreements contain various financial and other covenants. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements. As of December 31, 2017, Duke Energy Kentucky was in compliance with all covenants related to its debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or the acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

5. ASSET RETIREMENT OBLIGATIONS

Duke Energy Kentucky records an ARO when it has a legal obligation to incur retirement costs associated with the retirement of a long-lived asset and the obligation can be reasonably estimated. Certain assets have an indeterminate life, and thus the fair value of the retirement obligation is not reasonably estimable. A liability for these AROs will be recorded when a fair value is determinable.

Duke Energy Kentucky's regulated electric and regulated natural gas operations accrue costs of removal for property that does not have an associated legal retirement obligation based on regulatory orders from the KPSC. These costs of removal are recorded as a regulatory liability in accordance with regulatory accounting treatment. See Note 2 for the estimated cost of removal for assets without an associated legal retirement obligation, which are included in Regulatory liabilities on the Balance Sheets as of December 31, 2017 and 2016.

In April 2015, the EPA published a rule to regulate the disposal of Coal Combustion Residuals (CCR) from electric utilities as solid waste. The EPA CCR rule establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring and protection procedures and other operational and reporting procedures to ensure the safe disposal and management of CCR. The EPA CCR rule has certain requirements which if not met could initiate impoundment closure and require closure completion within five years. The EPA CCR rule includes extension requirements, which if met could allow the extension of closure completion by up to 10 years. On March 1, 2018, the EPA proposed significant changes to the federal CCR rule, including revisions that were required as part of a CCR litigation settlement, as well as changes that the agency considers warranted due to the passage of the Water Infrastructure Improvements for the Nation Act, which provides statutory authority for state and federal permit programs. Duke Energy Kentucky does not expect any significant changes to our closure plans as we continue to safely close ash basins across the various sites. In addition to the requirements of the federal CCR regulation, CCR landfills and surface impoundments are also independently regulated by the state of Kentucky.

The ARO amount recorded on the Balance Sheets is based upon estimated closure costs for impacted ash impoundments. The amount recorded represents the discounted cash flows for estimated closure costs based upon either specific closure plans or the probability weightings of the potential closure methods as evaluated on a site-by-site basis. Actual costs to be incurred will be dependent upon factors that vary from site to site. The most significant factors are the method and time frame of closure at the individual sites. Closure methods considered include removing the water from the basins, consolidating material as necessary and capping the ash with a synthetic barrier, excavating and relocating the ash to a lined structural fill or lined landfill, or recycling the ash for concrete or some other beneficial use. The ultimate method and timetable for closure will be in compliance with standards set by federal and state regulations. The ARO amount will be adjusted as additional information is gained through the closure and post-closure process, including acceptance and approval of compliance approaches which may change management assumptions, and may result in a material change to the balance. See ARO Liability Rollforward section below for information on revisions made to the coal ash liability during 2017 and 2016.

Asset retirement costs associated with coal ash AROs at the East Bend Station are included within Property, Plant and Equipment on the Balance Sheets.

The following table presents the changes in the liability associated with AROs.

(in thousands)	Years Ended December 31,	
	2017	2016
Balance at beginning of period	\$ 52,822	\$ 103,500
Accretion expense	2,044	4,034
Liabilities settled ^(a)	(7,435)	(4,757)
Liabilities incurred in the current year ^(b)	7,089	—
Revisions to estimates of cash flows ^(c)	62	(49,955)
Balance at end of period	\$ 54,582	\$ 52,822

- (a) Settlement of liabilities primarily relate to ash basin closure costs at the East Bend Station.
(b) Additional liabilities incurred primarily relate to landfill closure costs at the East Bend Station.
(c) 2016 amount primarily related to ash basin closure costs based on additional site-specific information about related costs, methods and timing of work to be performed.

Cost recovery related to ash basin and landfill closures will be pursued through the normal ratemaking process with the KPSC which permits recovery of necessary and prudently incurred costs associated with Duke Energy Kentucky's regulated operations.

6. PROPERTY, PLANT AND EQUIPMENT

The following table summarizes property, plant and equipment.

(in thousands)	Estimated Useful Life (Years)	December 31,	
		2017	2016
Land		\$ 24,616	\$ 26,007
Plant ^(a)			
Electric generation, distribution and transmission	8 – 100	1,585,904	1,496,729
Natural gas transmission and distribution	12 – 50	488,871	459,165
Other buildings and improvements	15 – 100	11,958	11,554
Equipment	5 – 25	19,167	17,549
Construction in process		109,722	63,833
Other	5 – 10	51,847	41,382
Total property, plant and equipment		2,292,085	2,116,219
Accumulated depreciation and amortization ^(b)		(977,244)	(948,144)
Net property, plant and equipment ^(c)		\$ 1,314,841	\$ 1,168,075

- (a) Includes capitalized lease amounts of \$26.2 million and \$27.6 million at December 31, 2017 and 2016, respectively.
(b) Includes accumulated amortization of capitalized leases of \$6.8 million and \$7.1 million at December 31, 2017 and 2016, respectively.
(c) The debt component of AFUDC totaled \$1.3 million and \$0.5 million at December 31, 2017 and 2016, respectively.

7. OTHER INCOME AND EXPENSES, NET

The components of Other Income and Expenses, net on the Statements of Operations are as follows.

(in thousands)	Years Ended December 31,	
	2017	2016
Income/(Expense):		
Interest income	\$ 1,236	\$ 990
AFUDC equity	3,358	1,332
Other	5	(1)
Other Income and Expenses, net	\$ 4,599	\$ 2,321

8. RELATED PARTY TRANSACTIONS

Duke Energy Kentucky engages in related party transactions, which are generally performed at cost and in accordance with KPSC and FERC regulations. Material amounts related to transactions with related parties included in the Statements of Operations are presented in the following table.

(in thousands)	Years Ended December 31,	
	2017	2016
Corporate governance and shared service expenses ^(a)	\$ 81,815	\$ 83,100

- (a) Duke Energy Kentucky is charged its proportionate share of costs, primarily related to human resources, employee benefits, legal and accounting fees, as well as other third party costs, from an unconsolidated affiliate that is a consolidated affiliate of Duke Energy. These amounts are recorded in Operation, maintenance and other within Operating Expenses on the Statements of Operations.

In addition to the amounts presented above, Duke Energy Kentucky records the impact on net income of other affiliate transactions, including rental of office space, participation in a money pool arrangement with Duke Energy and certain of its subsidiaries, other operational transactions and its proportionate share of certain charged expenses. The net impact of these transactions was not material for each of the years ended December 31, 2017 and 2016.

Certain trade receivables have been sold by Duke Energy Kentucky to CRC, an unconsolidated entity formed by a subsidiary of Duke Energy. The proceeds obtained from the sales of receivables are largely cash but do include a subordinated note from CRC for a portion of the purchase price. See Notes 1 and 11 for further information related to the sales of these receivables.

See the Balance Sheets for amounts due to or due from related parties.

Intercompany Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and jurisdictional returns. Duke Energy Kentucky has a tax sharing agreement with Duke Energy for the allocation of consolidated tax liabilities and benefits. Income taxes recorded represent amounts Duke Energy Kentucky would incur as a separate C-Corporation. Duke Energy Kentucky had an intercompany tax payable balance of \$2 million at December 31, 2017, and an immaterial intercompany tax payable balance at December 31, 2016.

9. DERIVATIVES AND HEDGING

COMMODITY PRICE RISK

Duke Energy Kentucky has limited exposure to market price changes of fuel and emission allowance costs incurred for its retail customers due to the use of cost tracking and recovery mechanisms. Duke Energy Kentucky does have exposure to the impact of market fluctuations in the prices of electricity, fuel and emission allowances associated with its generation output not utilized to serve retail operations or committed load (off-system, wholesale power sales). Duke Energy Kentucky's outstanding commodity derivatives are financial transmission rights.

See Note 10 for additional information on the fair value of commodity derivatives.

INTEREST RATE RISK

Duke Energy Kentucky is exposed to changes in interest rates as a result of its issuance or anticipated issuance of variable-rate and fixed-rate debt. Interest rate risk is managed by limiting variable-rate exposure to a percentage of total debt and by monitoring changes in interest rates. To manage risk associated with changes in interest rates, Duke Energy Kentucky may enter into financial contracts including interest rate swaps and U.S. Treasury lock agreements. The notional amount of interest rate swaps outstanding was \$26.7 million at December 31, 2017 and December 31, 2016. Financial contracts entered into by Duke Energy Kentucky are not designated as a hedge because they are accounted for under regulatory accounting. With regulatory accounting, the mark-to-market gains or losses are deferred as regulatory liabilities or assets. Regulatory assets and liabilities are amortized consistent with the treatment of related costs in the ratemaking process. The accrual of interest on swaps is recorded as Interest Expense on the Statements of Operations.

See Note 10 for additional information on the fair value of interest rate derivatives.

CREDIT RISK

Duke Energy Kentucky analyzes the financial condition of counterparties prior to entering into agreements and establishes credit limits and monitors the appropriateness of those limits on an ongoing basis. Credit limits and collateral requirements for retail electric customers are established by the KPSC.

Duke Energy Kentucky's industry has historically operated under negotiated credit lines for physical delivery contracts. Duke Energy Kentucky may use master collateral agreements to mitigate certain credit exposures. The collateral agreements require certain counterparties to post cash or letters of credit for the amount of exposure in excess of an established threshold. The threshold amount represents an unsecured credit limit determined in accordance with the corporate credit policy. Collateral agreements also provide that the inability to post collateral is sufficient cause to terminate contracts and liquidate all positions.

Duke Energy Kentucky also obtains cash or letters of credit from customers to provide credit support outside of collateral agreements, where appropriate, based on its financial analysis of the customer and the regulatory or contractual terms and conditions applicable to each transaction.

10. FAIR VALUE MEASUREMENTS

Fair value is the exchange price in an orderly transaction between market participants to sell an asset or transfer a liability at the measurement date. The fair value definition focuses on an exit price versus the acquisition cost. Fair value measurements use market data or assumptions market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique. These inputs can be readily observable, corroborated by market data or generally unobservable. Valuation techniques maximize the use of observable inputs and minimize the use of unobservable inputs. A midmarket pricing convention (the midpoint price between bid and ask prices) is permitted for use as a practical expedient.

Fair value measurements are classified in three levels based on the fair value hierarchy:

Level 1 – Unadjusted quoted prices in active markets for identical assets or liabilities that the reporting entity can access at the measurement date. An active market is one in which transactions for an asset or liability occur with sufficient frequency and volume to provide ongoing pricing information.

Level 2 – A fair value measurement utilizing inputs other than quoted prices included in Level 1 that are observable, either directly or indirectly, for an asset or liability. Inputs include (i) quoted prices for similar assets or liabilities in active markets, (ii) quoted prices for identical or similar assets or liabilities in markets that are not active, and (iii) inputs other than quoted market prices that are observable for the asset or liability, such as interest rate curves and yield curves observable at commonly quoted intervals, volatilities, and credit spreads. A Level 2 measurement cannot have more than an insignificant portion of its valuation based on unobservable inputs. Instruments in this category include non-exchange-traded derivatives, such as over-the-counter forwards, swaps and options; certain marketable debt securities; and financial instruments traded in less than active markets.

Level 3 – Any fair value measurement which includes unobservable inputs for more than an insignificant portion of the valuation. These inputs may be used with internally developed methodologies that result in management's best estimate of fair value. Level 3 measurements may include longer-term instruments that extend into periods in which observable inputs are not available.

Fair value accounting guidance permits entities to elect to measure certain financial instruments that are not required to be accounted for at fair value, such as equity method investments or the company's own debt, at fair value. Duke Energy Kentucky has not elected to record any of these items at fair value.

Transfers between levels represent assets or liabilities that were previously (i) categorized at a higher level for which the inputs to the estimate became less observable or (ii) classified at a lower level for which the inputs became more observable during the period. Duke Energy Kentucky's policy is to recognize transfers between levels of the fair value hierarchy at the end of the period. There were no transfers between levels 1, 2 or 3 during the years ended December 31, 2017 and 2016.

Interest rate derivatives

Most over-the-counter interest rate contract derivatives are valued using financial models which utilize observable inputs for similar instruments and are classified as Level 2. Inputs include forward interest rate curves, notional amounts, interest rates and credit quality of the counterparties.

QUANTITATIVE DISCLOSURES

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Balance Sheets. Derivative amounts in the table below exclude cash collateral.

(in thousands)	December 31, 2017			
	Total Fair			
	Value	Level 2	Level 3	
Derivative assets ^(a)	\$ 1,444	\$ —	\$ 1,444	
Derivative liabilities ^(b)	(5,367)	(5,367)	—	
Net (liabilities) assets	\$ (3,923)	\$ (5,367)	\$ 1,444	

(in thousands)	December 31, 2016			
	Total Fair			
	Value	Level 2	Level 3	
Derivative assets ^(a)	\$ 4,916	\$ —	\$ 4,916	
Derivative liabilities ^(b)	(5,944)	(5,944)	—	
Net (liabilities) assets	\$ (1,028)	\$ (5,944)	\$ 4,916	

(a) Included in Other within Current Assets and Other within Other Noncurrent Assets on the Balance Sheets. The amounts classified as Level 3 relate to financial transmission rights.

(b) Included in Other within Current Liabilities and Other within Other Noncurrent Liabilities on the Balance Sheets. The amounts classified as Level 2 relate to interest rate swaps.

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value on a recurring basis where the determination of fair value includes significant unobservable inputs (Level 3).

(in thousands)	Derivatives (net)	
	Years Ended December 31,	
	2017	2016
Balance at beginning of period	\$ 4,916	\$ 2,913
Purchases, sales, issuances and settlements:		
Purchases	3,343	4,921
Settlements	(4,135)	(4,441)
Total (losses) gains included on the Balance Sheets as regulatory assets or liabilities	(2,680)	1,523
Balance at end of period	\$ 1,444	\$ 4,916

OTHER FAIR VALUE DISCLOSURES

The fair value of long-term debt, including current maturities, is summarized in the following table. Judgment is required in interpreting market data to develop the estimates of fair value. Accordingly, the estimates determined are not necessarily indicative of the amounts Duke Energy Kentucky could have settled in current markets. The fair value of long-term debt is determined using Level 2 measurements.

(in thousands)	December 31, 2017		December 31, 2016	
	Book value	Fair value	Book value	Fair value
Long-Term debt, including current maturities	\$ 451,180	\$ 475,973	\$ 362,046	\$ 380,386

At both December 31, 2017 and December 31, 2016, the fair value of cash and cash equivalents, accounts and notes receivable, and accounts and notes payable are not materially different from their carrying amounts because of the short-term nature of these instruments and/or because the stated rates approximate market rates.

11. VARIABLE INTEREST ENTITIES

A variable interest entity (VIE) is an entity that is evaluated for consolidation using more than a simple analysis of voting control. The analysis to determine whether an entity is a VIE considers contracts with an entity, credit support for an entity, the adequacy of the equity investment of an entity, and the relationship of voting power to the amount of equity invested in an entity. This analysis is performed either upon the creation of a legal entity or upon the occurrence of an event requiring reevaluation, such as a significant change in an entity's assets or activities. A qualitative analysis of control determines the party that consolidates a VIE. This assessment is based on (i) what party has the power to direct the most significant activities of the VIE that impact its economic performance and (ii) what party has rights to receive benefits or is obligated to absorb losses that are significant to the VIE. The analysis of the party that consolidates a VIE is a continual reassessment.

Cinergy Receivables Company

CRC is a bankruptcy remote, special purpose entity that is an affiliate of Duke Energy Kentucky. As discussed below, Duke Energy Kentucky does not consolidate CRC as it is not the primary beneficiary. On a revolving basis, CRC buys certain accounts receivable arising from the sale of electricity, natural gas and related services from Duke Energy Kentucky. CRC borrows amounts under a credit facility to buy the receivables from Duke Energy Kentucky. Borrowing availability from the credit facility is limited to the amount of qualified receivables sold to CRC. The sole source of funds to satisfy the related debt obligation is cash collections from the receivables. Depending on experience with collections, additional equity infusions to CRC may be required by Duke Energy to maintain a minimum equity balance of \$3 million. There were no infusions to CRC during the years ended December 31, 2017 and 2016.

The proceeds Duke Energy Kentucky receives from the sale of receivables to CRC are typically 75 percent cash and 25 percent in the form of a subordinated note from CRC. The subordinated note is a retained interest in the receivables sold. Duke Energy Kentucky had receivables of \$19.7 million and \$18.4 million from CRC at December 31, 2017 and December 31, 2016, respectively. These balances are included in Receivables from affiliated companies on the Balance Sheets.

CRC is considered a VIE because (i) equity capitalization is insufficient to support its operations, (ii) power to direct the activities that most significantly impact economic performance of the entity are not performed by the equity holder and (iii) deficiencies in net worth of CRC are funded by Duke Energy. The most significant activities that impact the economic performance of CRC are decisions made to manage delinquent receivables. Duke Energy consolidates CRC as it makes these decisions. Duke Energy Kentucky does not consolidate CRC. No financial support was provided to this non-consolidated VIE during the years ended December 31, 2017 or 2016, or is expected to be provided in the future, that was not previously contractually required.

The subordinated note held by Duke Energy Kentucky is stated at fair value. Carrying values of retained interests are determined by allocating carrying value of the receivables between assets sold and interests retained based on relative fair value. The allocated basis of the subordinated notes are not materially different than their face value because (i) the receivables generally turnover in less than two months, (ii) credit losses are reasonably predictable due to the broad customer base and lack of significant concentration and (iii) the equity in CRC is subordinate to all retained interests and thus would absorb losses first. The hypothetical effect on fair value of the retained interests assuming both a 10 percent and a 20 percent unfavorable variation in credit losses or discount rates is not material due to the short turnover of receivables and historically low credit loss history. Interest accrues to Duke Energy Kentucky on the retained interests using the acceptable yield method. This method generally approximates the stated rate on the notes since the allocated basis and the face value are nearly equivalent. An impairment charge is recorded against the carrying value of both retained interests and purchased beneficial interest whenever it is determined that an other-than-temporary impairment has occurred. Duke Energy Kentucky's maximum exposure to loss does not exceed the carrying value.

Key assumptions used in estimating fair value in 2017 and 2016 are detailed in the following table.

	2017	2016
Anticipated credit loss ratio	0.5%	0.5%
Discount rate	2.1%	1.5%
Receivables turnover rate	11.4%	11.5%

The following table presents gross and net receivables sold.

(in thousands)	December 31, 2017	December 31, 2016
Receivables sold	\$ 59,074	\$ 58,903
Less: Retained interests	19,736	18,390
Net receivables sold	\$ 39,338	\$ 40,513

The following table presents sales and cash flows related to receivables sold.

(in thousands)	Years Ended December 31,	
	2017	2016
Sales:		
Receivables sold	\$ 417,779	\$ 438,249
Loss recognized on sale	1,704	1,627
Cash flows:		
Cash proceeds from receivables sold	\$ 414,729	\$ 428,369
Collection fees received	209	219
Return received on retained interests	783	647

Cash flows from the sale of receivables are reflected within Operating Activities on the Statements of Cash Flows.

Collection fees received in connection with the servicing of transferred accounts receivable are included in Operation, maintenance, and other on the Statements of Operations. The loss recognized on the sale of receivables is calculated monthly by multiplying the receivables sold during the month by the required discount. The required discount is derived monthly utilizing a three-year weighted average formula that considers charge-off history, late charge history and turnover history on the sold receivables, as well as a component for the time value of money. The discount rate, or component for the time value of money, is calculated monthly by summing the prior month-end London Interbank Offered Rate (LIBOR) plus a fixed rate of 1.00 percent.

12. EMPLOYEE BENEFIT PLANS

DEFINED BENEFIT RETIREMENT PLANS

Duke Energy Kentucky participates in qualified and non-qualified defined benefit retirement plans and other post-retirement benefit plans sponsored by Duke Energy. Duke Energy allocates pension and other post-retirement obligations and costs related to these plans to Duke Energy Kentucky. The plans cover most employees using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage of current eligible earnings based on age and/or years of service and interest credits. Certain employees are covered under plans that use a final average earnings formula. Under these average earnings formulas, a plan participant accumulates a retirement benefit equal to the sum of percentages of their (i) highest three-year or four-year average earnings, (ii) highest three-year or four-year average earnings in excess of covered compensation per year of participation (maximum of 35 years), and/or (iii) highest three-year average earnings times years of participation in excess of 35 years. Duke Energy also maintains, and Duke Energy Kentucky participates in, non-qualified, non-contributory defined benefit retirement plans which cover certain executives. As of January 1, 2014, the qualified and non-qualified non-contributory defined benefit plans are closed to new participants.

Duke Energy approved plan amendments to restructure its qualified non-contributory defined benefit retirement plans, effective January 1, 2018. The restructuring involved (i) the spin-off of the majority of inactive participants from two plans into a separate inactive plan and (ii) the merger of the active participant portions of such plans. Benefits offered to the plan participants remain unchanged. Actuarial gains and losses associated with the inactive plan will be amortized over the remaining life expectancy of the inactive participants.

Duke Energy uses a December 31 measurement date for its defined benefit retirement plan assets and obligations.

Duke Energy's policy is to fund amounts on an actuarial basis to provide assets sufficient to meet benefit payments to be paid to plan participants. Actual contributions for Duke Energy Kentucky were \$1,324 thousand and \$1,443 thousand for the years ended December 31, 2017 and 2016, respectively. A contribution of \$72 thousand for Duke Energy Kentucky was made on January 2, 2018; no further contributions are anticipated in 2018.

Net periodic benefit costs disclosed in the tables below represent the cost of the respective plan for the periods presented. However, portions of the net periodic benefit cost disclosed in the tables have been capitalized as a component of property, plant and equipment. Amounts presented in the tables below represent the amounts of pension and other post-retirement benefit cost allocated by Duke Energy for employees of Duke Energy Kentucky. Additionally, Duke Energy Kentucky is allocated its proportionate share of pension and other post-retirement benefit cost for employees of Duke Energy's shared services affiliate that provides support to Duke Energy Kentucky. These allocated amounts are included in the governance and shared services costs discussed in Note 8.

QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in thousands)	Years Ended December 31,	
	2017	2016
Service cost	\$ 1,360	\$ 1,459
Interest cost on projected benefit obligation	4,274	4,368
Expected return on plan assets	(6,290)	(6,156)
Amortization of prior service cost	(95)	4
Amortization of loss	1,912	1,677
Other	91	91
Net periodic pension costs	\$ 1,252	\$ 1,443

Amounts Recognized in Regulatory Assets

(in thousands)	December 31,	
	2017	2016
Regulatory assets, net increase	\$ 3,340	\$ 3,636

Reconciliation of Funded Status to Net Amount Recognized

(In thousands)	Years Ended December 31,	
	2017	2016
Change in Projected Benefit Obligation:		
Obligation at prior measurement date	\$ 106,067	\$ 100,829
Service cost	1,360	1,459
Interest cost	4,274	4,368
Actuarial losses	10,369	6,203
Transfers ^(a)	1,586	2,003
Plan amendments	—	(450)
Benefits paid	(6,679)	(8,345)
Obligation at measurement date	\$ 116,977	\$ 106,067
Accumulated Benefit Obligation	\$ 113,557	\$ 102,223
Change in Fair Value of Plan Assets:		
Plan assets at prior measurement date	\$ 98,252	\$ 96,373
Actual return on plan assets	11,674	6,778
Benefits paid	(6,679)	(8,345)
Employer contributions	1,324	1,443
Transfers ^(a)	1,586	2,003
Plan assets at measurement date	\$ 106,157	\$ 98,252

(a) Transfers represents net amounts associated with plan participants that have moved to/from other Duke Energy subsidiaries.

Amounts Recognized in the Balance Sheets

(in thousands)	December 31,	
	2017	2016
Prefunded pension ^(a)	\$ 1,184	\$ 1,716
Noncurrent pension liability ^(b)	12,004	9,531
Net liability recognized	\$ (10,820)	\$ (7,815)
Regulatory assets	\$ 32,299	\$ 28,959
Amounts to be reported in net periodic pension expense in the next year:		
Unrecognized net actuarial loss	\$ 1,664	\$ 1,407
Unrecognized prior service credit	(100)	62

(a) Included in Other within Investments and Other Assets on the Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Balance Sheets.

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in thousands)	December 31,	
	2017	2016
Projected benefit obligation	\$ 102,755	\$ 92,663
Accumulated benefit obligation	99,335	88,820
Fair Value of plan assets	90,750	83,132

Assumptions Used for Pension Benefits Accounting

	December 31,	
	2017	2016
Benefit Obligations:		
Discount rate	3.60%	4.10%
Salary increase	3.50%	4.40%
Net Periodic Benefit Cost:		
Discount rate	4.10%	4.40%
Salary increase	4.40%	4.40%
Expected long-term rate of return on plan assets	6.50%	6.50%

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for the projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

NON-QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in thousands)	Years Ended December 31,	
	2017	2016
Interest cost on projected benefit obligation	\$ 6	\$ 6
Amortization of actuarial loss	4	5
Net periodic pension costs	\$ 10	\$ 11

Amounts Recognized in Regulatory Assets

(in thousands)	December 31,	
	2017	2016
Regulatory assets, net increase	\$ 1	\$ —

Reconciliation of Funded Status to Net Amount Recognized

(in thousands)	Years Ended December 31,	
	2017	2016
Change in Projected Benefit Obligation:		
Obligation at prior measurement date	\$ 140	\$ 141
Interest cost	6	6
Actuarial losses	6	4
Benefits paid	(11)	(11)
Obligation at measurement date	\$ 141	\$ 140
Accumulated Benefit Obligation	\$ 141	\$ 140
Change in Fair Value of Plan Assets:		
Plan assets at prior measurement date	\$ —	\$ —
Benefits paid	(11)	(11)
Employer contributions	11	11
Plan assets at measurement date	\$ —	\$ —

Amounts Recognized in the Balance Sheets

(in thousands)	December 31,	
	2017	2016
Current pension liability ^(a)	\$ 10	\$ 10
Noncurrent pension liability ^(b)	131	130
Total accrued pension liability	\$ 141	\$ 140
Regulatory assets	\$ 52	\$ 51
Amounts to be recognized in net periodic pension expense in the next year:		
Unrecognized net actuarial loss	\$ 4	4

- (a) Included in Other within Current Liabilities on the Balance Sheets.
(b) Included in Accrued pension and other post-retirement benefit costs on the Balance Sheets.

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in thousands)	December 31,	
	2017	2016
Projected benefit obligation	\$ 141	\$ 140
Accumulated benefit obligation	141	140

Assumptions Used for Pension Benefits Accounting

	December 31,	
	2017	2016
Benefit Obligations:		
Discount rate	3.60%	4.10%
Salary increase	3.60%	4.40%
Net Periodic Benefit Cost:		
Discount rate	4.10%	4.40%
Salary increase	4.40%	4.40%

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for the projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

OTHER POST-RETIREMENT BENEFIT PLANS

Duke Energy provides, and Duke Energy Kentucky participates in, some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans. The health care benefits include medical, dental, and prescription drug coverage and are subject to certain limitations, such as deductibles and co-payments.

Duke Energy did not make any pre-funding contributions to its other post-retirement benefit plans during the years ended December 31, 2017 and 2016.

Components of Net Periodic Other Post-Retirement Benefit Costs

(in thousands)	Years Ended December 31,	
	2017	2016
Service cost	\$ 82	\$ 91
Interest cost on projected benefit obligation	254	288
Expected return on plan assets	(78)	(61)
Amortization of prior service (credit) cost	(184)	175
Amortization of gain	(144)	(420)
Curtailed credit	(614)	—
Net periodic pension costs	\$ (684)	\$ 73

Amounts Recognized in Regulatory Assets and Regulatory Liabilities

(in thousands)	December 31,	
	2017	2016
Regulatory assets, net decrease	\$ (280)	\$ (305)
Regulatory liabilities, net (decrease) increase	(717)	612

Reconciliation of Funded Status to Accrued Other Post-Retirement Benefit Costs

(in thousands)	Years Ended December 31,	
	2017	2016
Change in Projected Benefit Obligation:		
Accumulated post-retirement benefit obligation at prior measurement date	\$ 6,556	\$ 6,845
Service cost	82	91
Interest cost	254	288
Plan participants' contributions	193	189
Actuarial losses (gains)	197	(107)
Transfers ^(a)	85	242
Plan amendments	(642)	(377)
Benefits paid	(673)	(615)
Accumulated post-retirement benefit obligation at measurement date	\$ 6,052	\$ 6,556
Change in Fair Value of Plan Assets:		
Plan assets at prior measurement date	\$ 1,519	\$ 1,198
Actual return on plan assets	160	86
Plan participants' contributions	193	189
Benefits paid	(673)	(615)
Transfers ^(a)	36	240
Employer contributions	198	421
Plan assets at measurement date	\$ 1,433	\$ 1,519

(a) Transfers represents net amounts associated with plan participants that have moved to/from other Duke Energy subsidiaries.

Amounts Recognized in the Balance Sheets

(in thousands)	December 31,	
	2017	2016
Current post-retirement liability ^(a)	\$ 159	\$ 165
Noncurrent post-retirement liability ^(b)	4,460	4,872
Total accrued post-retirement liability	\$ 4,619	\$ 5,037
Regulatory assets	\$ 2,330	\$ 2,610
Regulatory liabilities	\$ 4,833	\$ 5,550
Amounts to be recognized in net periodic pension expense in the next year:		
Unrecognized net actuarial loss	\$ 31	\$ (424)
Unrecognized prior service credit	\$ (236)	\$ (184)

(a) Included in Other within Current Liabilities on the Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Balance Sheets.

Assumptions Used for Other Post-Retirement Benefits Accounting

	December 31,	
	2017	2016
Benefit Obligations:		
Discount rate	3.60%	4.10%
Net Periodic Benefit Cost:		
Discount rate	4.10%	4.40%
Expected long-term rate of return on plan assets	6.50%	6.50%

The discount rate used to determine the current year other post-retirement benefits obligation and following year's other postretirement benefits expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for the projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

Assumed Health Care Cost Trend Rate

	December 31,	
	2017	2016
Health care cost trend rate assumed for next year	7.00%	7.00%
Rate to which the cost trend is assumed to decline (the ultimate trend rate)	4.75%	4.75%
Year that the rate reaches the ultimate trend rate	2024	2023

Expected Benefit Payments

The following table presents Duke Energy's expected benefit payments to participants on behalf of Duke Energy Kentucky in its qualified, non-qualified and other post-retirement benefit plans over the next 10 years. These benefit payments reflect expected future service, as appropriate.

(in thousands)	Qualified	Non-Qualified	Other Post-	Total
	Plans	Plans	Retirement Plans	
Years ending December 31,				
2018	\$ 7,106	\$ 11	\$ 864	\$ 7,981
2019	7,417	11	742	8,170
2020	8,188	11	633	8,832
2021	9,449	10	631	10,090
2022	8,489	10	616	9,115
2023-2027	40,475	50	2,526	43,051

MASTER RETIREMENT TRUST (MASTER TRUST)

The assets for the Duke Energy Kentucky plans discussed above are derived from the Master Trust that is held by Duke Energy and, as such, Duke Energy Kentucky is allocated its proportionate share of assets discussed below. Assets for both the qualified pension and other post-retirement benefits are maintained in the Master Trust. Duke Energy also invests other post-retirement assets in Voluntary Employees' Beneficiary Association trusts. The investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants. Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.50 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their high expected return. Debt securities are primarily held to hedge the qualified pension plan liability. Hedge funds, real estate and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers or investments.

Duke Energy has a de-risking investment strategy for the Duke Energy Master Trust. As the funded status of the pension plans increase, the targeted allocation to return seeking assets may be reduced and the targeted allocation to fixed-income assets will be increased to better manage Duke Energy's pension liability and reduce funded status volatility. Duke Energy regularly reviews its actual asset allocation and periodically rebalances its investments to the targeted allocation when considered appropriate.

The following table presents target and actual asset allocations for the Master Trust at December 31, 2017 and 2016.

Asset Category	Target Allocation	Actual Allocation at	
		December 31, 2017	2016
U.S. equity securities	10%	11%	11%
Non-U.S. equity securities	8%	8%	8%
Global equity securities	10%	10%	10%
Global private equity securities	3%	2%	2%
Debt securities	63%	63%	63%
Hedge funds	2%	2%	2%
Real estate and cash	2%	2%	2%
Other global securities	2%	2%	2%
Total	100%	100%	100%

EMPLOYEE SAVINGS PLAN

Duke Energy Kentucky also participates in employee savings plans sponsored by Duke Energy. Most employees participate in a matching contribution formula where Duke Energy provides a matching contribution generally equal to 100 percent of employee before-tax and Roth 401(k) contributions and, as applicable, after-tax contributions of up to 6 percent of eligible pay per period.

As of January 1, 2014, for new and rehired non-union and certain unionized employees who are not eligible to participate in Duke Energy's defined benefit plans, an additional employer contribution of 4 percent of eligible pay per pay period, which is subject to a three-year vesting schedule, is provided to the employee's savings plan account.

Duke Energy Kentucky's expense related to its proportionate share of pretax employer contributions and the additional 4 percent employer contribution was \$1,035 thousand and \$720 thousand for the years ended December 31, 2017 and 2016, respectively.

13. INCOME TAXES

Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowers the corporate federal income tax rate from 35 percent to 21 percent and eliminates bonus depreciation for regulated utilities, effective January 1, 2018. The Tax Act also could be amended or subject to technical correction, which could change the financial impacts that were recorded at December 31, 2017, or are expected to be recorded in future periods. The FERC and KSPC will determine the regulatory treatment of the impacts of the Tax Act for Duke Energy Kentucky. Duke Energy Kentucky's future results of operations, financial condition and cash flows could be adversely impacted by the Tax Act, subsequent amendments or corrections or the actions of the FERC, KSPC or credit rating agencies related to the Tax Act. Duke Energy Kentucky is reviewing orders to address the rate treatment of the Tax Act by KSPC. See Note 2 for additional information. Beginning in January 2018, Duke Energy Kentucky will defer the estimated ongoing impacts of the Tax Act that are expected to be returned to customers.

As a result of the Tax Act, Duke Energy Kentucky revalued its existing deferred tax assets and deferred tax liabilities as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred tax amounts. For Duke Energy Kentucky's regulated operations, where the reduction in the net ADIT liability is expected to be returned to customers in future rates, the net remeasurement has been deferred as a regulatory liability. The regulatory liability for income taxes includes the effect of the reduction of the net deferred tax liability including the tax gross-up of the excess ADIT liabilities and the effect of the new tax rate on the previous regulatory asset for income taxes. Excess ADITs are generally classified as either "protected" or "unprotected" under Internal Revenue Service (IRS) rules. Protected excess ADIT, resulting from accumulated tax depreciation of public utility property, are required to utilize the average rate assumption method under the IRS normalization rules for determining the timing of the return to customers. The majority of the excess ADIT is related to protected amounts associated with public utility property. See Note 2 for additional information on the Tax Act's impact to the regulatory asset and liability accounts.

On December 22, 2017, the Securities and Exchange Commission staff issued Staff Accounting Bulletin No. 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act (SAB 118), which provides guidance on accounting for the Tax Act's impact. SAB 118 provides a measurement period, which in no case should extend beyond one year from the Tax Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Act under Accounting Standards Codification (ASC) Topic 740. In accordance with SAB 118, a company must reflect the income tax effects of the Tax Act in the reporting period in which the accounting under ASC Topic 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete, a company can determine a reasonable estimate for those effects and record a provisional estimate in the financial statements in the first reporting period in which a reasonable estimate can be determined.

Duke Energy Kentucky recorded a provisional net tax benefit of \$21.3 million related to the Tax Act in the period ending December 31, 2017. This net benefit primarily due to the remeasurement of deferred tax accounts to reflect the corporate rate reduction impact to net deferred tax balances. The majority of Duke Energy Kentucky's operations are regulated and it is expected that the savings associated with the amount representing the remeasurement of deferred tax balances related to regulated operations will ultimately be passed on to customers. Duke Energy Kentucky recorded a regulatory liability of \$133.3 million, representing the revaluation of those deferred tax balances. Duke Energy Kentucky will continue to respond to requests from KSPC to determine the timing and magnitude of savings they will pass on to customers.

The net provisional charge from deferred tax remeasurement and assessment of valuation allowance is based on currently available information and interpretations which are continuing to evolve. Duke Energy Kentucky continues to analyze additional information and guidance related to certain aspects of the Tax Act, such as conformity or decoupling by state legislatures in response to the Tax Act and the final determination of the net deferred tax liabilities subject to the remeasurement. The prospects of supplemental legislation or regulatory processes to address questions that arise because of the Tax Act, or evolving technical interpretations of the tax law, may also cause the final impact from the Tax Act to differ from the estimated amounts. Duke Energy Kentucky continues to appropriately refine such amounts within the measurement period allowed by SAB 118, which will be completed no later than the fourth quarter of 2018.

INCOME TAX EXPENSE

Components of Income Tax (Benefit) Expense

(in thousands)	Years Ended December 31,	
	2017	2016
Current income taxes:		
Federal	\$ (13,442)	\$ (580)
State	(87)	(361)
Total current income taxes	(13,529)	(941)
Deferred income taxes:		
Federal	9,746	15,181
State	2,709	2,939
Total deferred income taxes	12,455	18,120
Investment tax credit amortization	(87)	(132)
Total income tax (benefit) expense included in Statements of Operations	\$ (1,161)	\$ 17,047

Statutory Rate Reconciliation

The following table presents a reconciliation of income tax expense at the U.S. federal statutory tax rate to actual tax expense.

(in thousands)	Years Ended December 31,	
	2017	2016
Income tax expense, computed at the statutory rate of 35 percent	\$ 20,383	\$ 20,871
State income tax, net of federal income tax effect	1,705	1,676
Federal true-up	(1,079)	(5,269)
Tax Act	(21,276)	—
Other items, net	(894)	(231)
Total income tax (benefit) expense	\$ (1,161)	\$ 17,047
Effective tax rates ^(a)	(2.0)%	28.6%

(a) The decrease in the effective tax rate was primarily due to the revaluation of deferred tax assets and liabilities as a result of the Tax Act.

DEFERRED TAXES

Net Deferred Income Tax Liability Components

(in thousands)	Years Ended December 31,	
	2017	2016
Deferred credits and other liabilities	\$ 38	\$ 50
Tax credits and net operating loss carryforwards	4,059	3,668
Pension, postretirement and other employee benefits	4,970	6,436
Regulatory liabilities and deferred credits	7,104	—
Other	581	359
Investments and other liabilities	718	1,468
Total deferred income tax assets	17,470	11,981
Accelerated depreciation rates	(203,907)	(298,205)
Regulatory assets and deferred debits, net	—	(25,412)
Total deferred income tax liabilities	(203,907)	(323,617)
Net deferred income tax liabilities	\$ (186,437)	\$ (311,636)

As noted above, as a result of the Tax Act, Duke Energy Kentucky revalued its existing deferred tax assets and liabilities as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred amounts. Duke Energy Kentucky's net deferred income tax liabilities decreased \$156.7 million as a result of this revaluation.

UNRECOGNIZED TAX BENEFITS

The following table presents changes to unrecognized tax benefits.

(in thousands)	Years Ended December 31,	
	2017	2016
Unrecognized tax benefits – January 1	\$ —	\$ 52
Unrecognized tax benefits increases (decreases):		
Gross increases – tax positions in prior periods	143	4
Decreases due to settlements	—	(56)
Total changes	143	(52)
Unrecognized tax benefits – December 31	\$ 143	\$ —

OTHER TAX MATTERS

The following table includes interest recognized in the Statements of Operations and the Balance Sheets.

(in thousands)	As of December 31,	
	2017	2016
Net interest income recognized related to income taxes	\$ —	\$ 8

Duke Energy Kentucky is no longer subject to U.S. federal examination for years before 2015. With few exceptions, Duke Energy Kentucky is no longer subject to state, local or non-U.S. income tax examinations by tax authorities for years before 2014.

14. SUBSEQUENT EVENTS

For information on subsequent events related to regulatory matters, commitments and contingencies, debt and credit facilities, asset retirement obligations, employee benefit plans and income taxes, see Notes 2, 3, 4, 5, 12 and 13.

Duke Energy Kentucky, Inc.
Financial Statements
and Independent Auditors' Report

December 31, 2018

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GLOSSARY OF TERMS**Glossary of Terms**

The following terms or acronyms used in this document are defined below:

Term or Acronym	Definition
ADIT	Accumulated Deferred Income Tax
AFUDC	Allowance for Funds Used During Construction
AMI	Advanced Metering Infrastructure
ARO	Asset Retirement Obligation
ASC	Accounting Standards Codification
CCR	Coal Combustion Residuals
CPP	Clean Power Plan
CRC	Cinergy Receivables Company, LLC
D.C. Circuit Court	U.S. Court of Appeals for the District of Columbia
Duke Energy	Duke Energy Corporation
Duke Energy Indiana	Duke Energy Indiana, LLC
Duke Energy Kentucky	Duke Energy Kentucky, Inc.
Duke Energy Ohio	Duke Energy Ohio, Inc.
EPA	U.S. Environmental Protection Agency
FASB	Financial Accounting Standards Board
FERC	Federal Energy Regulatory Commission
FRR	Fixed Resource Requirement
GAAP	Generally Accepted Accounting Principles in the U.S.
KPSC	Kentucky Public Service Commission
LIBOR	London Interbank Offered Rate
Master Trust	Master Retirement Trust
MISO	Midcontinent Independent System Operator, Inc.
MVP	Multi Value Projects
NAAQS	National Ambient Air Quality Standards
NO _x	Nitrogen oxide
PJM	PJM Interconnection, LLC
RTO	Regional Transmission Organization
SAB 118	Staff Accounting Bulletin No. 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act
Tax Act	Tax Cut and Jobs Act
U.S.	United States
VIE	Variable Interest Entity

REPORTS**REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

To the Board of Directors and Stockholder of Duke Energy Kentucky, Inc.

We have audited the accompanying financial statements of Duke Energy Kentucky, Inc. (the "Company"), which comprise the balance sheets as of December 31, 2018 and 2017, and the related statements of operations, changes in equity, and cash flows for the years then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Company's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Duke Energy Kentucky, Inc. as of December 31, 2018 and 2017, and the results of their operations and their cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
March 20, 2019

FINANCIAL STATEMENTS

Financial Statements

**DUKE ENERGY KENTUCKY, INC.
STATEMENTS OF OPERATIONS**

(in thousands)	Years Ended December 31,	
	2018	2017
Operating Revenues		
Electric	\$ 378,507	\$ 337,118
Natural gas	104,548	93,620
Total operating revenues	483,055	430,738
Operating Expenses		
Fuel used in electric generation and purchased power	140,465	119,156
Cost of natural gas	43,006	37,249
Operation, maintenance and other	144,520	145,079
Depreciation and amortization	64,893	47,667
Property and other taxes	15,094	14,339
Impairment charges	—	1,190
Total operating expenses	407,978	364,680
Losses on Sales of Assets and Other, net	(74)	(99)
Operating Income	75,003	65,959
Other Income and Expenses, net	6,627	6,357
Interest Expense	18,347	14,078
Income Before Income Taxes	63,283	58,238
Income Tax Expense (Benefit)	13,474	(1,161)
Net Income	\$ 49,809	\$ 59,399

See Notes to Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY KENTUCKY, INC.
BALANCE SHEETS

(in thousands, except share amounts)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 7,773	\$ 1,687
Receivables (net of allowance for doubtful accounts of \$221 at 2018 and \$234 at 2017)	9,450	3,537
Receivables from affiliated companies	29,195	22,286
Notes receivable from affiliated companies	—	14,671
Inventory	40,596	43,793
Regulatory assets	10,562	4,356
Other	11,960	4,888
Total current assets	109,536	95,218
Property, Plant and Equipment		
Cost	2,517,897	2,292,085
Accumulated depreciation and amortization	(965,124)	(977,244)
Net property, plant and equipment	1,552,773	1,314,841
Other Noncurrent Assets		
Regulatory assets	113,652	118,738
Other	9,922	2,175
Total other noncurrent assets	123,574	120,913
Total Assets	\$ 1,785,883	\$ 1,530,972
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 45,759	\$ 48,797
Accounts payable to affiliated companies	17,503	15,774
Notes payable to affiliated companies	38,875	—
Taxes accrued	18,143	17,602
Interest accrued	6,115	5,387
Current maturities of long-term debt	100,396	885
Asset retirement obligations	6,448	3,378
Regulatory liabilities	14,294	6,892
Other	19,291	17,335
Total current liabilities	266,824	116,050
Long-Term Debt	424,714	425,295
Long-Term Debt Payable to Affiliated Companies	25,000	25,000
Other Noncurrent Liabilities		
Deferred income taxes	214,718	186,437
Asset retirement obligations	56,378	51,204
Regulatory liabilities	156,115	171,617
Accrued pension and other post-retirement benefit costs	21,734	17,418
Other	24,177	26,537
Total other noncurrent liabilities	473,122	453,213
Commitments and Contingencies		
Equity		
Common stock, \$15.00 par value, 1,000,000 shares authorized and 585,333 shares outstanding	8,780	8,780
Additional paid-in capital	217,494	182,494
Retained earnings	369,949	320,140
Total equity	596,223	511,414
Total Liabilities and Equity	\$ 1,785,883	\$ 1,530,972

See Notes to Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY KENTUCKY, INC.
STATEMENTS OF CASH FLOWS

(in thousands)	Years Ended December 31,	
	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES		
Net income	\$ 49,809	\$ 59,399
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	65,489	48,235
Equity component of AFUDC	(3,144)	(3,358)
Losses on sales of other assets	74	99
Impairment charges	—	1,190
Deferred income taxes	30,812	12,367
Accrued pension and other post-retirement benefit costs	1,408	578
Contributions to qualified pension plans	(72)	(1,324)
Payments for asset retirement obligations	(3,233)	(7,132)
(Increase) decrease in:		
Receivables	(6,124)	(1,663)
Receivables from affiliated companies	(6,909)	476
Inventory	3,197	6,521
Collateral assets	(2,506)	11,590
Other current assets	(1,253)	3,104
Increase (decrease) in:		
Accounts payable	(4,937)	(2,237)
Accounts payable to affiliated companies	1,729	3,201
Taxes accrued	541	3,520
Other current liabilities	2,771	(7,791)
Other assets	(5,872)	(12,893)
Other liabilities	2,591	(1,996)
Net cash provided by operating activities	124,371	111,886
CASH FLOWS FROM INVESTING ACTIVITIES		
Capital expenditures	(276,990)	(180,271)
Notes receivable from affiliated companies	14,671	(14,671)
Other	(28,451)	(5,866)
Net cash used in investing activities	(290,770)	(200,808)
CASH FLOWS FROM FINANCING ACTIVITIES		
Proceeds from the issuance of long-term debt	99,584	89,615
Payments for the redemption of long-term debt	(985)	(686)
Notes payable to affiliated companies	38,875	(19,656)
Capital contributions from parent	35,000	15,000
Other	(89)	(198)
Net cash provided by financing activities	172,485	84,075
Net increase (decrease) in cash and cash equivalents	6,086	(4,847)
Cash and cash equivalents at beginning of period	1,687	6,534
Cash and cash equivalents at end of period	\$ 7,773	\$ 1,687
Supplemental Disclosures:		
Cash paid for interest, net of amount capitalized	\$ 17,024	\$ 12,352
Cash received from income taxes	(16,784)	(15,767)
Significant non-cash transactions:		
Accrued capital expenditures	32,142	32,369

See Notes to Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY KENTUCKY, INC.
STATEMENTS OF CHANGES IN EQUITY

(in thousands)	Common Stock	Additional Paid-in Capital	Retained Earnings	Total Equity
Balance at December 31, 2016	\$ 8,780	\$ 167,494	\$ 260,741	\$ 437,015
Net income	—	—	59,399	59,399
Contribution from parent	—	15,000	—	15,000
Balance at December 31, 2017	\$ 8,780	\$ 182,494	\$ 320,140	\$ 511,414
Net income	—	—	49,809	49,809
Contribution from parent	—	35,000	—	35,000
Balance at December 31, 2018	\$ 8,780	\$ 217,494	\$ 369,949	\$ 596,223

See Notes to Financial Statements

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

NATURE OF OPERATIONS AND BASIS OF PRESENTATION

Duke Energy Kentucky is a combination electric and natural gas regulated public utility company that provides service in northern Kentucky. Duke Energy Kentucky's principal lines of business include generation, transmission, distribution and sale of electricity, as well as the transportation and sale of natural gas. Duke Energy Kentucky is subject to the regulatory provisions of the KPSC and the FERC. Duke Energy Kentucky's common stock is wholly owned by Duke Energy Ohio, an indirect wholly owned subsidiary of Duke Energy.

Certain prior year amounts have been reclassified to conform to the current year presentation.

Other Current Assets and Liabilities

The following table provides a description of amounts included in Other within Current Assets or Current Liabilities that exceed 5 percent of total Current Assets or Current Liabilities on the Duke Energy Kentucky Balance Sheets at either December 31, 2018, or 2017.

(in thousands)	Location	December 31,	
		2018	2017
Duke Energy Kentucky			
Unrealized gains on mark-to-market and hedging transactions	Current Assets	\$ 5,685	\$ 1,125
Customer Deposits	Current Liabilities	9,928	9,860

SIGNIFICANT ACCOUNTING POLICIES

Use of Estimates

In preparing financial statements that conform to GAAP, Duke Energy Kentucky must make estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses and the disclosure of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Regulatory Accounting

The majority of Duke Energy Kentucky's operations are subject to price regulation for the sale of electricity and natural gas by the KPSC or FERC. When prices are set on the basis of specific costs of the regulated operations and an effective franchise is in place such that sufficient natural gas or electric services can be sold to recover those costs, Duke Energy Kentucky applies regulatory accounting. Regulatory accounting changes the timing of the recognition of costs or revenues relative to a company that does not apply regulatory accounting. As a result, regulatory assets and regulatory liabilities are recognized on the Balance Sheets and are amortized consistent with the treatment of the related cost in the ratemaking process. See Note 2 for further information.

Duke Energy Kentucky utilizes cost-tracking mechanisms, commonly referred to as fuel adjustment clauses or PGA clauses. These clauses allow for the recovery of fuel and fuel-related costs, portions of purchased power, natural gas costs and hedging costs through surcharges on customer rates. The difference between the costs incurred and the surcharge revenues is recorded either as an adjustment to Operating Revenues, Operating Expenses - Fuel used in electric generation and purchased power or Operating Expenses - Cost of natural gas on the Statements of Operations with an off-setting impact on regulatory assets or regulatory liabilities.

Cash and Cash Equivalents

All highly liquid investments with maturities of three months or less at the date of acquisition are considered cash equivalents.

Inventory

Inventory is used for operations and is recorded primarily using the average cost method. Inventory related to regulated operations is valued at historical cost. Materials and supplies are recorded as inventory when purchased and subsequently charged to expense or capitalized to property, plant and equipment when installed. Inventory, including excess or obsolete inventory, is written-down to the lower of cost or market value. Once inventory has been written-down, it creates a new cost basis for the inventory that is not subsequently written-up. Provisions for inventory write-offs were not material at December 31, 2018, and 2017. The components of inventory are presented in the table below.

(in thousands)	December 31,	
	2018	2017
Materials and supplies	\$ 19,608	\$ 19,300
Coal	14,356	17,354
Natural gas, oil and other	6,632	7,139
Total inventory	\$ 40,596	\$ 43,793

Long-Lived Asset Impairments

Duke Energy Kentucky evaluates long-lived assets for impairment when circumstances indicate the carrying value of those assets may not be recoverable. An impairment exists when a long-lived asset's carrying value exceeds the estimated undiscounted cash flows expected to result from the use and eventual disposition of the asset. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. If the carrying value of the long-lived asset is not recoverable based on these estimated future undiscounted cash flows, the carrying value of the asset is written-down to its then-current estimated fair value and an impairment charge is recognized.

Duke Energy Kentucky assesses the fair value of long-lived assets using various methods, including recent comparable third-party sales, internally developed discounted cash flow analysis and analysis from outside advisors. Triggering events to reassess cash flows may include, but are not limited to, significant changes in commodity prices, the condition of an asset or management's interest in selling the asset.

Property, Plant and Equipment

Property, plant and equipment are stated at the lower of depreciated historical cost net of any disallowances or fair value, if impaired. Duke Energy Kentucky capitalizes all construction-related direct labor and material costs, as well as indirect construction costs such as general engineering, taxes and financing costs. See "Allowance for Funds Used During Construction" and "Asset Retirement Obligations" below for further information on capitalized financing costs and legal obligations associated with the retirement of property, plant and equipment. Costs of renewals and betterments that extend the useful life of property, plant and equipment are also capitalized. The cost of repairs, replacements and major maintenance projects, which do not extend the useful life or increase the expected output of the asset, are expensed as incurred. Depreciation is generally computed over the estimated useful life of the asset using the composite straight-line method. Depreciation studies are conducted periodically to update composite rates and are approved by the KPSC and/or the FERC when required. The composite weighted average depreciation rate was 2.5 percent and 2.2 percent for the years ended December 31, 2018 and 2017, respectively.

In general, when Duke Energy Kentucky retires its regulated property, plant and equipment, the original cost plus the cost of retirement, less salvage value and any depreciation already recognized, is charged to accumulated depreciation. However, when it becomes probable a regulated asset will be retired substantially in advance of its original expected useful life or will be abandoned, the cost of the asset and the corresponding accumulated depreciation is recognized as a separate asset. If the asset is still in operation, the net amount is classified as Generation facilities to be retired, net on the Balance Sheets. If the asset is no longer operating, the net amount is classified in Regulatory assets on the Balance Sheets if deemed recoverable (see discussion of long-lived asset impairments above). When it becomes probable that regulated mass utility assets, such as meters, will be abandoned, the cost of the assets and accumulated depreciation is reclassified to Regulatory assets on the Balance Sheets for amounts recoverable in rates. The carrying value of the asset is based on historical cost if Duke Energy Kentucky is allowed to recover the remaining net book value and a return equal to at least the incremental borrowing rate. If not, an impairment is recognized to the extent the net book value of the asset exceeds the present value of future revenues discounted at the incremental borrowing rate.

When Duke Energy Kentucky sells entire regulated operating units, the original cost and accumulated depreciation and amortization balances are removed from Property, Plant and Equipment on the Balance Sheets. Any gain or loss is recorded in earnings, unless otherwise required by the KPSC and/or the FERC.

See Note 6 for further information.

Allowance for Funds Used During Construction

For regulated operations, the debt and equity costs of financing the construction of property, plant and equipment are reflected as AFUDC and capitalized as a component of the cost of property, plant and equipment. AFUDC equity is reported on the Statements of Operations as non-cash income in Other Income and Expenses, net. AFUDC debt is reported as a non-cash offset to Interest Expense on the Statements of Operations. After construction is completed, Duke Energy Kentucky is permitted to recover these costs through their inclusion in rate base and the corresponding subsequent depreciation or amortization of those regulated assets.

AFUDC equity, a permanent difference for income taxes, reduces the effective tax rate when capitalized and increases the effective tax rate when depreciated or amortized.

See Note 14 for additional information.

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment. Substantially all AROs are related to regulated operations. When recording an ARO, the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made. The liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be probable of recovery.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. Duke Energy Kentucky receives amounts to fund the cost of the ARO from regulated revenues. As a result, amounts recovered in regulated revenues, accretion expense and depreciation of the associated asset are netted and deferred as a regulatory asset or regulatory liability.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis.

See Note 5 for further information.

Revenue Recognition

Duke Energy Kentucky recognizes revenue as customers obtain control of promised goods and services in an amount that reflects consideration expected in exchange for those goods or services. Generally, the delivery of electricity and natural gas results in the transfer of control to customers at the time the commodity is delivered and the amount of revenue recognized is equal to the amount billed to each customer, including estimated volumes delivered when billings have not yet occurred.

See Note 12 for further information.

Derivatives and Hedging

Derivative instruments may be used in connection with commodity price and interest rate activities, including swaps, futures, forwards and options. All derivative instruments, except those that qualify for the normal purchase/normal sale exception, are recorded on the Balance Sheets at fair value. For activity subject to regulatory accounting, gains and losses on derivative contracts are reflected as regulatory assets or regulatory liabilities and not as other comprehensive income or current period income. As a result, changes in fair value of these derivatives have no immediate earnings impact.

See Note 9 for further information.

Unamortized Debt Premium, Discount and Expense

Premiums, discounts and expenses incurred with the issuance of outstanding long-term debt are amortized over the term of the debt issue. The gain or loss on extinguishment associated with refinancing higher-cost debt obligations in the regulated operations is amortized. Amortization expense is recorded as Interest Expense in the Statements of Operations and is reflected as Depreciation and amortization within Net cash provided by operating activities on the Statements of Cash Flows.

Premiums, discounts and expenses are presented as an adjustment to the carrying value of the debt amount and included in Long-Term Debt on the Balance Sheets presented.

Loss Contingencies and Environmental Liabilities

Contingent losses are recorded when it is probable a loss has occurred and can be reasonably estimated. When a range of the probable loss exists and no amount within the range is a better estimate than any other amount, the minimum amount in the range is recorded. Unless otherwise required by GAAP, legal fees are expensed as incurred.

Environmental liabilities are recorded on an undiscounted basis when environmental remediation or other liabilities become probable and can be reasonably estimated. Environmental expenditures related to past operations that do not generate current or future revenues are expensed. Environmental expenditures related to operations that generate current or future revenues are expensed or capitalized, as appropriate. Certain environmental expenditures receive regulatory accounting treatment and are recorded as regulatory assets.

See Notes 2 and 3 for further information.

Pension and Other Post-Retirement Benefit Plans

Duke Energy maintains qualified, non-qualified and other post-retirement benefit plans. Eligible employees of Duke Energy Kentucky participate in the respective qualified, non-qualified and other post-retirement benefit plans and Duke Energy Kentucky is allocated its proportionate share of benefit costs.

See Note 13 for further information, including significant accounting policies associated with these plans.

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and foreign jurisdictional returns. Duke Energy Kentucky has a tax-sharing agreement with Duke Energy, and income taxes recorded represent amounts Duke Energy Kentucky would incur as a separate C-Corporation. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. Investment tax credits associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

ADIT is valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. If Duke Energy Kentucky's estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, is revised to incorporate new accounting principles, or changes in the expected timing or manner of the reversal then Duke Energy Kentucky's results of operations could be impacted.

Tax-related interest and penalties are recorded in Interest Expense and Other Income and Expenses, net, in the Statements of Operations.

See Note 14 for further information.

Dividend Restrictions

Duke Energy Kentucky is required to pay dividends solely out of retained earnings and to maintain a minimum of 35 percent equity in its capital structure.

NEW ACCOUNTING STANDARDS

The new accounting standards adopted for 2018 and 2017 had no material impact on the presentation or results of operations, cash flows or financial position of Duke Energy Kentucky. While immaterial, adoption of the following accounting standards had the most significant impact on Duke Energy Kentucky's results of operations, cash flows and financial position for the year ended December 31, 2018.

Revenue from Contracts with Customers. In May 2014, the FASB issued revised accounting guidance for revenue recognition from contracts with customers. The core principle of this guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration expected in exchange for those goods or services. The amendments also required disclosure of sufficient information to allow users to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. The majority of Duke Energy Kentucky's revenue is in scope of the new guidance. Revenue from derivatives and other revenue arrangements, such as alternative revenue programs and lighting tariffs accounted for as leases, are excluded from the scope of this guidance and, therefore, are accounted for and evaluated for separate presentation and disclosure under other relevant accounting guidance.

Duke Energy Kentucky elected the modified retrospective method of adoption effective January 1, 2018. Under the modified retrospective method of adoption, prior year reported results are not restated. Adoption of this standard did not result in a material change in the timing or pattern of revenue recognition and a cumulative-effect adjustment was not recorded at January 1, 2018. Duke Energy Kentucky utilized certain practical expedients including applying this guidance to open contracts at the date of adoption, expensing costs to obtain a contract where the amortization period of the asset would have been one year or less, ignoring the effects of a significant financing when the period between transfer of the good or service and payment is one year or less and recognizing revenues for certain contracts under the invoice practical expedient, which allows revenue recognition to be consistent with invoiced amounts (including unbilled estimates) provided certain criteria are met, including consideration of whether the invoiced amounts reasonably represent the value provided to customers.

In preparation for adoption, Duke Energy Kentucky identified material revenue streams and reviewed representative contracts and tariffs. Duke Energy Kentucky also monitored the activities of the power and utilities industry revenue recognition task force and has reviewed published positions on specific industry issues to evaluate the impact, if any, on Duke Energy Kentucky's specific contracts and conclusions. Duke Energy Kentucky applied the available practical expedient to portfolios of tariffs and contracts with similar characteristics. The vast majority of sales, including energy provided to retail customers, are from tariff offerings that provide natural gas or electricity without a defined contractual term ("at-will"). In most circumstances, revenue from contracts with customers is equivalent to the electricity or natural gas supplied and billed in that period (including unbilled estimates). As such, adoption of the new rules did not result in a shift in the timing or pattern of revenue recognition for such sales. While there have been changes to the captions and descriptions of revenues in Duke Energy Kentucky's financial statements, the most significant impact as a result of adopting the standard are additional disclosures around the nature, amount, timing and uncertainty of revenues and cash flows arising from contracts with customers. See Note 12 for further information.

Retirement Benefits. In March 2017, the FASB issued revised accounting guidance for the presentation of net periodic costs related to benefit plans. Previous guidance required the aggregation of all the components of net periodic costs on the Statements of Operations and did not require the disclosure of the location of net periodic costs on the Statements of Operations. Under the amended guidance, the service cost component of net periodic costs is included within Operating Income within the same line as other compensation expenses. All other components of net periodic costs are outside of Operating Income. In addition, the updated guidance permits only the service cost component of net periodic costs to be capitalized to inventory or Property, Plant and Equipment. This represents a change from previous guidance, which permitted all components of net periodic costs to be eligible for capitalization.

Duke Energy Kentucky adopted this guidance on January 1, 2018. Under previous guidance, Duke Energy Kentucky presented the total non-capitalized net periodic costs within Operation, maintenance and other on the Statements of Operations. The adoption of this guidance resulted in a retrospective change to reclassify the presentation of the non-service cost (benefit) components of net periodic costs to Other Income and Expenses, net. Duke Energy Kentucky utilized the practical expedient for retrospective presentation. The change in components of net periodic costs eligible for capitalization is applicable prospectively. Since Duke Energy Kentucky's service cost component is greater than the total net periodic costs, the change results in increased capitalization of net periodic costs, higher Operation, maintenance and other and higher Other Income and Expenses, net. The resulting prospective impact to Duke Energy Kentucky is an immaterial increase in Net Income. See Note 13 for further information.

For Duke Energy Kentucky, the retrospective change resulted in higher Operation, maintenance and other and higher Other Income and Expenses, net, of \$1,758 thousand for the year ended December 31, 2017. There was no change to Net Income for this prior period.

The following new Accounting Standards Updates have been issued, but have not yet been adopted by Duke Energy Kentucky, as of December 31, 2018.

Leases. In February 2016, the FASB issued revised accounting guidance for leases. The core principle of this guidance is that a lessee should recognize the assets and liabilities that arise from leases on the balance sheet.

For Duke Energy Kentucky, this guidance is effective for interim and annual periods beginning January 1, 2019. The guidance will be applied using a modified retrospective approach. Under the modified retrospective approach of adoption, prior year reported results are not restated and a cumulative-effect adjustment, if applicable, is recorded to retained earnings at January 1, 2019. Upon adoption, agreements considered leases for the use of space on communication towers and office space will be recognized on the balance sheet. Duke Energy Kentucky expects to adopt the following practical expedients:

Practical Expedient	Description	Election
Package of transition practical expedients (for leases commenced prior to adoption date and must be adopted as a package)	Do not need to 1) reassess whether any expired or existing contracts are/or contain leases, 2) reassess the lease classification for any expired or existing leases and 3) reassess initial direct costs for any existing leases.	Duke Energy Kentucky plans to elect this practical expedient.
Short-term lease expedient (elect by class of underlying asset)	Elect as an accounting policy to not apply the recognition requirements to short-term leases by asset class.	Duke Energy Kentucky plans to elect this practical expedient for all asset classes.
Lease and non-lease components (elect by class of underlying asset)	Elect as an accounting policy to not separate non-lease components from lease components and instead account for each lease and associated non-lease component as a single lease component by asset class.	Duke Energy Kentucky plans to elect this practical expedient for all asset classes.
Hindsight expedient (when determining lease term)	Elect to use hindsight to determine the lease term.	Duke Energy Kentucky plans to elect this practical expedient.
Existing and expired land easements not previously accounted for as leases	Elect to not evaluate existing or expired easements under the new guidance and carry forward current accounting treatment.	Duke Energy Kentucky plans to elect this practical expedient.
Comparative reporting requirements for initial adoption	Elect to apply transition requirements at adoption date, recognize cumulative effect adjustment to retained earnings in period of adoption and not apply ASC 842 to comparative periods, including disclosures.	Duke Energy Kentucky plans to elect this practical expedient.
Lessor expedient (elect by class of underlying asset)	Elect as an accounting policy to aggregate non-lease components with the related lease component when specified conditions are met by asset class. Account for the combined component based on its predominant characteristic (revenue or operating lease).	Duke Energy Kentucky plans to elect this practical expedient for all asset classes.

Duke Energy Kentucky currently expects to record right-of-use assets and operating lease liabilities on its balance sheet of \$10 million. In addition to the recognition of operating leases on the balance sheet, Duke Energy Kentucky expects additional disclosures including operating lease costs, short-term lease costs, variable lease costs, weighted-average remaining lease term as well as weighted-average discount rates. Duke Energy Kentucky does not expect a material change to its financial statements from adoption of the new standard for contracts where it is the lessor.

2. REGULATORY MATTERS**REGULATORY ASSETS AND LIABILITIES**

Duke Energy Kentucky records regulatory assets and liabilities that result from the ratemaking process. See Note 1 for further information.

The following table represents the regulatory assets and liabilities on the Balance Sheets.

(in thousands)	December 31,		Earns/Pays a Return	Recovery/ Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
Accrued pension and other post-retirement benefits	\$ 31,764	\$ 34,682		(b)
East Bend deferrals	47,482	45,485	X	(c)
Demand side management/Energy efficiency costs	—	2,226		(d)
Hedge costs and other deferrals	4,082	4,938		(e)
Storm cost deferrals	4,258	4,913		2023
AROs – coal ash	19,513	16,721	X	(c)(g)
Vacation accrual	1,414	1,394		2019
Deferred debt expense	922	1,188		2036
Deferred fuel and purchased gas costs	1,516	179		2019
Carbon management research grant	1,733	1,800		2023
Deferred gas integrity costs	2,887	2,887		(c)
AMI	5,366	6,087		2033
East Bend outage normalization	2,066	—		(c)
Other	1,211	594		(c)
Total regulatory assets	124,214	123,094		
Less: current portion	10,562	4,356		
Total noncurrent regulatory assets	\$ 113,652	\$ 118,738		
Regulatory Liabilities^(a)				
Costs of removal	\$ 19,300	\$ 39,707		(f)
Net regulatory liability related to income taxes	136,972	132,721		(c)
Accrued pension and other post-retirement benefits	5,206	4,833		(b)
Hedge costs and other deferrals	2,930	33		(e)
Deferred fuel and purchased gas costs	(144)	(204)		2019
Profit sharing mechanism	619	1,405		2019
Demand side management/Energy efficiency costs	3,129	—		(d)
Other	2,397	14		(c)
Total regulatory liabilities	170,409	178,509		
Less: current portion	14,294	6,892		
Total noncurrent regulatory liabilities	\$ 156,115	\$ 171,617		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
- (b) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans, which is approximately fourteen years. See Note 13 for further information.
- (c) The expected recovery or refund period varies or has not been determined.
- (d) Deferred costs are recovered through a rider mechanism.
- (e) Recovery varies over the life of the associated instrument.
- (f) Represents funds received from customers to cover future removal of property, plant and equipment from retired or abandoned sites as property is retired. Included in rate base and recovered over the life of associated assets.
- (g) Certain amounts are recovered through rates.

RATE RELATED INFORMATION

The KPSC approves rates for retail electric and natural gas services within the Commonwealth of Kentucky. The FERC approves rates for electric sales to wholesale customers served under cost-based rates, as well as sales of transmission service.

Duke Energy Kentucky Electric Rate Case

On September 1, 2017, Duke Energy Kentucky filed a rate case with the KPSC requesting an increase in electric base rates of approximately \$49 million, which represents an approximate 15 percent increase on the average customer bill. Subsequent to the filing, Duke Energy Kentucky adjusted the requested amount to \$30.1 million, in part to reflect the benefits of the Tax Act, representing an approximate 9 percent increase on the average customer bill. The rate increase was driven by increased investment in utility plant, increased operations and maintenance expenses and recovery of regulatory assets. The application also includes requests to implement an Environmental Surcharge Mechanism to recover environmental costs not recovered in base rates, to establish a Distribution Capital Investment Rider to recover incremental costs of specific programs, to establish a FERC Transmission Cost Reconciliation Rider to recover escalating transmission costs and to modify existing Profit Sharing Mechanism to increase customers' share of proceeds from the benefits of owning generation and to mitigate shareholder risks associated with that generation. An evidentiary hearing concluded on March 8, 2018, and the KPSC issued an order on April 13, 2018. Major components of the order include approval of an \$8 million increase in base rates with a return on equity at 9.725 percent based upon a capital structure of 49 percent equity on a total allocable capitalization of approximately \$650 million. The order approved the Environmental Surcharge Mechanism Rider and in June 2018 recovery began of capital-related environmental costs, including costs related to ash and ash disposal, and environmental operation and maintenance expenses formerly recovered in base rates, including expenses for environmental reagents and emission allowances. The incremental revenue from this rider will be approximately \$13 million on an annualized basis. The order settles all issues associated with the Tax Act as it relates to the electric business by lowering the income tax component of the revenue requirement and refunding protected EDIT under allowable normalization rules and unprotected EDIT over 10 years. The order denied requests to implement riders for certain transmission costs and distribution capital investments. Duke Energy Kentucky implemented new base rates on May 1, 2018. On May 3, 2018, Duke Energy Kentucky filed an application for rehearing on certain aspects of the order; on May 23, 2018, the KPSC granted a rehearing. On October 2, 2018, the KPSC issued its rehearing order correcting certain findings in its initial order and making additional changes that are immaterial to the company's earnings.

Duke Energy Kentucky Natural Gas Base Rate Case

On August 31, 2018, Duke Energy Kentucky filed an application with the KPSC requesting an increase in natural gas base rates of approximately \$11 million, an approximate 11.1 percent average increase across all customer classes. The increase is net of approximately \$5 million in annual savings as a result of the Tax Act. The drivers for this case are capital invested since Duke Energy Kentucky's last rate case in 2009. Duke Energy Kentucky is also seeking implementation of a Weather Normalization Adjustment Mechanism, amortization of regulatory assets and to implement the impacts of the Tax Act, prospectively. On January 30, 2019, Duke Energy Kentucky entered into a settlement agreement with the Attorney General of Kentucky, the only intervenor in the case, which if approved would resolve the matter. The settlement provides for an approximate \$7 million increase and approval of the proposed Weather Normalization Mechanism. A hearing was held on February 5, 2019. A ruling is expected in late first quarter 2019. Duke Energy Kentucky cannot predict the outcome of this matter.

FERC 494 Refund of Regional Transmission Enhancement Projects

FERC Order No. 494 Settlement Agreement (FERC 494 Settlement Agreement) was entered into by most of the PJM transmission owners, including Duke Energy Kentucky, and the PJM state regulatory commissions approximately two years ago and was planned to be effective on January 1, 2016; however, it was not approved by the FERC until May 31, 2018. The FERC 494 Settlement Agreement was due to the Seventh Circuit Court of Appeals finding that the FERC had failed to adequately justify the costs that the customers in the western part of PJM were being charged for high voltage transmission projects, or Regional Transmission Expansion Plan (RTEP) projects (500 kV and above) built in the east. These costs were being allocated to all PJM customers on a load-ratio share basis but the court determined that these costs were not justifiable to customers in the west, including Duke Energy Kentucky, that did not benefit from the RTEP projects. Costs for the periods 2012 through 2015 are expected to be refunded to Duke Energy Kentucky on a monthly basis through December 2025. The refund amount for similar costs incurred beginning in 2016 through June 30, 2018, prior to the change in cost allocation by PJM was determined in the third quarter of 2018 and these amounts will be refunded over a 12-month period beginning in July 2018. These refunds, totaling approximately \$8 million for Duke Energy Kentucky have been recorded to Operation, maintenance and other on the Statements of Operations for the year ended December 31, 2018.

RTO Realignment

Duke Energy Kentucky transferred control of its transmission assets to effect a RTO realignment from MISO to PJM, effective December 31, 2011.

On December 22, 2010, the KPSC approved Duke Energy Kentucky's request to effect the RTO realignment, subject to a commitment not to seek double-recovery in a future rate case of the transmission expansion fees that may be charged by MISO and PJM in the same period or overlapping periods. Duke Energy Kentucky is currently recovering PJM transmission expansion fees through current base rates.

Upon its exit from MISO on December 31, 2011, Duke Energy Kentucky recorded a liability and expense for its exit obligation and share of MISO Transmission Expansion Planning costs, excluding MVP. This liability was recorded within Other in Current Liabilities and Other in Noncurrent Liabilities on the Balance Sheets.

The following table provides a reconciliation of the beginning and ending balance of recorded obligations related to the withdrawal from MISO.

(in thousands)	December 31, 2017	Provision / Adjustments	Cash Reductions	December 31, 2018
MISO withdrawal liability	\$ 16,366	\$ (551)	\$ (911)	\$ 14,904

3. COMMITMENTS AND CONTINGENCIES

GENERAL INSURANCE

Duke Energy Kentucky has insurance and/or reinsurance coverage either directly or through indemnification from Duke Energy's captive insurance company, Bison Insurance Company Limited, and its affiliates, consistent with companies engaged in similar commercial operations with similar type properties. Duke Energy Kentucky's coverage includes (i) commercial general liability coverage for liabilities arising to third parties for bodily injury and property damage; (ii) workers' compensation; (iii) automobile liability coverage; and (iv) property coverage for all real and personal property damage. Real and personal property damage coverage excludes electric transmission and distribution lines, but includes damages arising from boiler and machinery breakdowns, earthquakes, flood damage and extra expense, but not outage or replacement power coverage. All coverage is subject to certain deductibles or retentions, sublimits, exclusions, terms and conditions common for companies with similar types of operations. Duke Energy Kentucky self-insures its electric transmission and distribution lines against loss due to storm damage and other natural disasters.

The cost of Duke Energy Kentucky's coverage can fluctuate year to year reflecting claims history and conditions of the insurance and reinsurance markets.

In the event of a loss, terms and amounts of insurance and reinsurance available might not be adequate to cover claims and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on Duke Energy Kentucky's results of operations, cash flows or financial position. Duke Energy Kentucky is responsible to the extent losses may be excluded or exceed limits of the coverage available.

ENVIRONMENTAL

Duke Energy Kentucky is subject to federal, state, and local regulations regarding air and water quality, hazardous and solid waste disposal, and other environmental matters, including the CPP. These regulations can be changed from time to time, imposing new obligations on Duke Energy Kentucky.

On November 16, 2016, the state of Maryland filed a petition with EPA under Section 126 of the Clean Air Act alleging that 19 power plants, including one unit owned and operated by Duke Energy Kentucky, contribute to violations of EPA's NAAQS for ozone in the state of Maryland. On March 12, 2018, the state of New York filed a petition with EPA, also under Section 126 of the Clean Air Act alleging that over 60 power plants, including one unit owned and operated by Duke Energy Kentucky, contribute to violations of EPA's ozone NAAQS in the state of New York. Both Maryland and New York seek EPA orders requiring the states in which the named power plants operate impose more stringent NO_x emission limitations on the plants. On October 5, 2018, EPA published a final rule denying the Maryland petition. That same day, Maryland appealed EPA's denial of their Section 126 petition to the D.C. Circuit Court. The impact of these petitions could be more stringent requirements for the operation of NO_x emission controls at these plants. Duke Energy Kentucky cannot predict the outcome of these matters.

Remediation Activities

In addition to the AROs discussed in Note 5, Duke Energy Kentucky is responsible for environmental remediation at various sites. These include certain properties that are part of ongoing operations and sites formerly owned or used by Duke Energy Kentucky. These sites are in various stages of investigation, remediation and monitoring. Managed in conjunction with relevant federal, state and local agencies, remediation activities vary based upon site condition and location, remediation requirements, complexity and sharing of responsibility. If remediation activities involve joint and several liability provisions, strict liability, or cost recovery or contribution actions, Duke Energy Kentucky could potentially be held responsible for environmental impacts caused by other potentially responsible parties, and may also benefit from insurance policies or contractual indemnities that cover some or all cleanup costs. Liabilities are recorded when losses become probable and are reasonably estimable. The total costs that may be incurred cannot be estimated because the extent of environmental impact, allocation among potentially responsible parties, remediation alternatives and/or regulatory decisions have not yet been determined. Additional costs associated with remediation activities are likely to be incurred in the future and could be significant. Costs are typically expensed as Operation, maintenance and other on the Statements of Operations unless regulatory recovery of the costs is deemed probable.

Duke Energy Kentucky has accrued approximately \$670 thousand of probable and estimable costs related to its various environmental sites in Other within Other Noncurrent Liabilities on the Balance Sheets as of December 31, 2018 and 2017. Additional losses in excess of recorded reserves are expected to be immaterial for the stages of investigation, remediation and monitoring for the environmental sites that have been evaluated. The maximum amount of the range for all stages of Duke Energy Kentucky's environmental sites cannot be determined at this time.

LITIGATION

Duke Energy Kentucky is involved in other legal, tax and regulatory proceedings arising in the ordinary course of business, some of which involve significant amounts. Duke Energy Kentucky believes the final disposition of these proceedings will not have a material effect on its results of operations, cash flows or financial position. Duke Energy Kentucky expenses legal costs related to the defense of loss contingencies as incurred.

OTHER COMMITMENTS AND CONTINGENCIES

General

As part of its normal business, Duke Energy Kentucky is party to various financial guarantees, performance guarantees and other contractual commitments to extend guarantees of credit and other assistance to various third parties. These guarantees involve elements of performance and credit risk which are not included on the Balance Sheets. The possibility of Duke Energy Kentucky having to honor its contingencies is largely dependent upon future operations of various third parties or the occurrence of certain future events.

Purchase Obligations**Pipeline and Storage Capacity Contracts**

Duke Energy Kentucky enters into pipeline and storage capacity contracts that commit future cash flows to acquire services needed in its business. Cost arising from capacity commitments are recovered via the Gas Cost Adjustment Clause in Kentucky. The time period for fixed payments under these pipeline and storage capacity contracts is up to four years.

Certain storage and pipeline capacity contracts require the payment of demand charges that are based on rates approved by the FERC in order to maintain rights to access the natural gas storage or pipeline capacity on a firm basis during the contract term. The demand charges that are incurred in each period are recognized in the Statements of Operations as part of natural gas purchases and are included in Cost of natural gas.

The following table presents future unconditional purchase obligations under these contracts.

(in thousands)	December 31, 2018	
2019	\$	6,825
2020		4,363
2021		4,245
2022		1,260
2023		—
Thereafter		—
Total	\$	16,693

Operating and Capital Lease Commitments

Duke Energy Kentucky leases office buildings, vehicles, computer equipment and other property and equipment with various terms and expiration dates. Capitalized lease obligations are classified as Long-Term Debt on the Balance Sheets. Amortization of assets recorded under capital leases is included in Depreciation and amortization on the Statements of Operations.

Rental expense for operating leases, which is included in Operation, maintenance and other on the Statements of Operations, was \$2 million for the years ended December 31, 2018 and 2017.

The following table presents future minimum lease payments under operating leases, which at inception had a non-cancelable term of more than one year, and capital leases as of December 31, 2018.

(in thousands)	Operating Leases		Capital Leases	
2019	\$	707	\$	438
2020		666		219
2021		677		—
2022		689		—
2023		701		—
Thereafter		10,745		—
Minimum annual payments		14,185		657
Less: amount representing interest		—		(77)
Total	\$	14,185	\$	580

4. DEBT AND CREDIT FACILITIES**SUMMARY OF DEBT AND RELATED TERMS**

The following table summarizes outstanding debt.

(in thousands)	Weighted Average Interest Rate	Year Due	December 31,	
			2018	2017
Unsecured debt	4.50%	2019 - 2057	\$ 450,000	\$ 350,000
Capital leases	7.09%	2019 - 2020	580	1,466
Tax-exempt bonds ^{(a)(b)}	2.53%	2027	76,720	76,720
Money pool borrowings ^{(b)(c)}	2.79%		63,875	25,000
Unamortized debt discount and premium, net			(239)	(288)
Unamortized debt issuance costs			(1,951)	(1,718)
Total debt	4.06%		\$ 588,985	\$ 451,180
Short-term money pool borrowings			(38,875)	—
Current maturities of long-term debt ^(d)			(100,396)	(885)
Total long-term debt			\$ 449,714	\$ 450,295

(a) Includes \$27 million that is secured by a bilateral letter of credit agreement.

(b) Floating-rate debt. At December 31, 2017, the weighted average interest rate was 1.74 percent for tax-exempt bonds.

(c) Includes \$25 million classified as Long-Term Debt Payable to Affiliated Companies on the Balance Sheets.

(d) At December 31, 2018, the balance includes unsecured debt of \$100 million, maturing in October 2019, with an interest rate of 4.65 percent.

MATURITIES AND CALL OPTIONS

The following table shows the annual maturities of long-term debt for the next five years and thereafter. Amounts presented exclude short-term notes payable.

(in thousands)	December 31, 2018
2019	\$ 100,396
2020	184
2021	50,000
2022	—
2023	50,000
Thereafter	351,720
Total long-term debt, including current maturities	\$ 552,300

Duke Energy Kentucky has the ability under certain debt facilities to call and repay the obligation prior to its scheduled maturity. Therefore, the actual timing of future cash repayments could be materially different than as presented above.

SHORT-TERM OBLIGATIONS CLASSIFIED AS LONG-TERM DEBT

Tax-exempt bonds that may be put to Duke Energy Kentucky at the option of the holder and money pool borrowings, which are short-term obligations by nature, are classified as long-term due to Duke Energy Kentucky's intent and ability to utilize such borrowings as long-term financing. As Duke Energy's Master Credit Facility and Duke Energy Kentucky's other bilateral letter of credit agreements have non-cancelable terms in excess of one year as of the balance sheet date, Duke Energy Kentucky has the ability to refinance these short-term obligations on a long-term basis. See "Available Credit Facilities" below for additional information.

At December 31, 2018 and 2017, \$27 million of tax-exempt bonds and \$25 million of money pool borrowings were classified as Long-Term Debt and Long-Term Debt Payable to Affiliated Companies, respectively, on the Balance Sheets.

SUMMARY OF SIGNIFICANT DEBT ISSUANCES

Duke Energy Kentucky issued \$100 million of unsecured debentures, of which \$25 million carry a fixed interest rate of 4.01 percent and mature October 2023, \$40 million carry a fixed interest rate of 4.18 percent and mature October 2028 and \$35 million carry a fixed interest rate of 4.62 percent and mature December 2048. The first two tranches totaling \$65 million were closed and funded on October 3, 2018, and the remaining tranche of \$35 million closed in December 2018. The proceeds were used to pay down short-term debt, fund capital expenditures and for general corporate purposes.

In September 2017, Duke Energy Kentucky issued \$90 million of unsecured debentures, of which \$30 million carry a fixed interest rate of 3.35 percent and mature September 2029, \$30 million carry a fixed interest rate of 4.11 percent and mature September 2047 and \$30 million carry a fixed interest rate of 4.26 percent and mature September 2057. The debt was issued for capital expenditures, to refinance short-term debt and for general corporate purposes.

AVAILABLE CREDIT FACILITIES

In January 2018, Duke Energy extended the termination date of substantially all of its existing \$8 billion Master Credit Facility capacity from March 16, 2022, to March 16, 2023. In May 2018, Duke Energy completed the extension process with 100 percent of all commitments to the Master Credit Facility extending to March 16, 2023. Duke Energy Kentucky has borrowing capacity under the Master Credit Facility up to a specified sublimit. Duke Energy has the unilateral ability at any time to increase or decrease Duke Energy Kentucky's borrowing sublimit, subject to a maximum sublimit. The amount available to Duke Energy Kentucky under the Master Credit Facility may be reduced to backstop issuances of commercial paper, certain letters of credit and variable-rate demand tax-exempt bonds that may be put to Duke Energy Kentucky at the option of the holder. At December 31, 2018, Duke Energy Kentucky had a borrowing sublimit of \$150 million and available capacity of \$86 million under the Master Credit Facility.

Duke Energy Kentucky and Duke Energy Indiana, a wholly owned subsidiary of Duke Energy, collectively have a \$156 million bilateral letter of credit agreement. In February 2018, Duke Energy Kentucky and Duke Energy Indiana amended the bilateral letter of credit agreement to extend the termination date from February 2019 to February 2023. Duke Energy Kentucky and Duke Energy Indiana may request the issuance of letters of credit up to \$27 million and \$129 million, respectively, on their behalf to support various series of tax-exempt bonds. This credit facility may not be used for any purpose other than to support the tax-exempt bonds.

OTHER DEBT MATTERS**Money Pool**

Duke Energy Kentucky receives support for its short-term borrowing needs through participation with Duke Energy and certain of its subsidiaries in a money pool arrangement. Under this arrangement, those companies with short-term funds may provide short-term loans to affiliates participating under this arrangement. The money pool is structured such that Duke Energy Kentucky separately manages its cash needs and working capital requirements. Accordingly, there is no net settlement of receivables and payables between money pool participants. Duke Energy may loan funds to its participating subsidiaries, but may not borrow funds through the money pool.

Money pool receivable balances are reflected within Notes receivable from affiliated companies on the Balance Sheets. Money pool payable balances are reflected within either Notes payable to affiliated companies or Long-Term Debt Payable to Affiliated Companies on the Balance Sheets.

Restrictive Debt Covenants

Duke Energy Kentucky's debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio not to exceed 65 percent for each borrower. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements. As of December 31, 2018, Duke Energy Kentucky was in compliance with all covenants related to its debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

5. ASSET RETIREMENT OBLIGATIONS

Duke Energy Kentucky records an ARO when it has a legal obligation to incur retirement costs associated with the retirement of a long-lived asset and the obligation can be reasonably estimated. Certain assets have an indeterminate life, and thus the fair value of the retirement obligation is not reasonably estimable. A liability for these AROs will be recorded when a fair value is determinable.

Duke Energy Kentucky's regulated electric and regulated natural gas operations accrue costs of removal for property that does not have an associated legal retirement obligation based on regulatory orders from the KPSC. These costs of removal are recorded as a regulatory liability in accordance with regulatory accounting treatment. See Note 2 for the estimated cost of removal for assets without an associated legal retirement obligation, which are included in Regulatory liabilities on the Balance Sheets as of December 31, 2018 and 2017.

Duke Energy Kentucky is subject to state and federal regulations covering the closure of coal ash impoundments, including the EPA CCR Rule. AROs recorded on the Balance Sheets include the legal obligation for the disposal of CCR, which is based upon estimated closure costs for impacted ash impoundments. The amount recorded represents the discounted cash flows for estimated closure costs based upon either specific closure plans or the probability weightings of the potential closure methods as evaluated on a site-by-site basis. Actual costs to be incurred will be dependent upon factors that vary from site to site. The most significant factors are the method and time frame of closure at the individual sites. Closure methods considered include removing the water from ash basins, consolidating material as necessary and capping the ash with a synthetic barrier, excavating and relocating the ash to a lined structural fill or lined landfill or recycling the ash for concrete or some other beneficial use. The ultimate method and timetable for closure will be in compliance with standards set by federal and state regulations and other agreements. The ARO amount will be adjusted as additional information is gained through the closure and post-closure process, including acceptance and approval of compliance approaches, which may change management assumptions, and may result in a material change to the balance. Asset retirement costs associated with coal ash AROs at the East Bend Station are included within Property, Plant and Equipment on the Balance Sheets.

In addition to the coal ash AROs, Duke Energy Kentucky also has legal obligations related to the retirement of gas mains and asbestos remediation.

The following table presents the changes in the liability associated with AROs.

(in thousands)	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ 54,582	\$ 52,822
Accretion expense	2,065	2,044
Liabilities settled ^(a)	(4,204)	(7,435)
Liabilities incurred in the current year ^(b)	—	7,089
Revisions to estimates of cash flows ^(c)	10,383	62
Balance at end of period	\$ 62,826	\$ 54,582

(a) Settlement of liabilities primarily relate to ash basin closure costs at the East Bend Station.

(b) 2017 additional liabilities incurred primarily relate to landfill closure costs at the East Bend Station.

(c) 2018 revisions to estimates of cash flows primarily relates to increases in groundwater monitoring and post-closure maintenance estimates for closure of the East Bend Station, partially offset by revised asbestos remediation estimates.

In April 2018, the KPSC issued an order that approved the Environmental Surcharge Mechanism, which includes the recovery of costs related to ash and ash disposal. Costs incurred through April 2018 will be recovered over a 10-year period beginning in June 2018, and prudently incurred costs after April 2018 will be recovered monthly on a two-month lag. See Note 2 for additional information on the order KPSC issued in April 2018.

6. PROPERTY, PLANT AND EQUIPMENT

The following table summarizes property, plant and equipment.

(in thousands)	Estimated Useful Life (Years)	December 31,	
		2018	2017
Land		\$ 25,868	\$ 24,616
Plant ^(a)			
Electric generation, distribution and transmission	15 – 100	1,708,224	1,585,904
Natural gas transmission and distribution	12 – 50	557,214	488,871
Other buildings and improvements	35 – 90	18,284	11,958
Equipment	5 – 25	29,865	19,167
Construction in process		119,830	109,722
Other	5 – 18	58,612	51,847
Total property, plant and equipment		2,517,897	2,292,085
Accumulated depreciation and amortization ^(b)		(965,124)	(977,244)
Net property, plant and equipment ^(c)		\$ 1,552,773	\$ 1,314,841

(a) Includes capitalized lease amounts of \$20.9 million and \$26.2 million at December 31, 2018 and 2017, respectively.

(b) Includes accumulated amortization of capitalized leases of \$4.4 million and \$6.8 million at December 31, 2018 and 2017, respectively.

(c) The debt component of AFUDC totaled \$1.9 million and \$1.3 million at December 31, 2018 and 2017, respectively.

7. OTHER INCOME AND EXPENSES, NET

The components of Other Income and Expenses, net on the Statements of Operations are as follows.

(in thousands)	Years Ended December 31,	
	2018	2017
Income/(Expense):		
Interest income	\$ 1,624	\$ 1,236
AFUDC equity	3,144	3,358
Other	1,859	1,763
Other Income and Expenses, net	\$ 6,627	\$ 6,357

8. RELATED PARTY TRANSACTIONS

Duke Energy Kentucky engages in related party transactions, which are generally performed at cost and in accordance with KPSC and FERC regulations. Refer to the Balance Sheets for balances due to or from related parties. Material amounts related to transactions with related parties included in the Statements of Operations are presented in the following table.

(in thousands)	Years Ended December 31,	
	2018	2017
Corporate governance and shared service expenses ^(a)	\$ 91,003	\$ 81,815

(a) Duke Energy Kentucky is charged its proportionate share of costs, primarily related to human resources, employee benefits, information technology, legal and accounting fees, as well as other third-party costs, from an unconsolidated affiliate that is a consolidated affiliate of Duke Energy. These amounts are recorded in Operation, maintenance and other within Operating Expenses on the Statements of Operations.

In addition to the amounts presented above, Duke Energy Kentucky has other affiliate transactions, including certain indemnification coverages through Duke Energy's wholly owned captive insurance subsidiary, rental of office space, participation in a money pool arrangement with Duke Energy and certain of its subsidiaries, other operational transactions and its proportionate share of certain charged expenses. See Note 4 for more information regarding the money pool. These transactions are incurred in the ordinary course of business and are eliminated in Duke Energy's Consolidated Financial Statements.

Certain trade receivables have been sold by Duke Energy Kentucky to CRC, an unconsolidated entity formed by a subsidiary of Duke Energy. The proceeds obtained from the sales of receivables are largely cash but do include a subordinated note from CRC for a portion of the purchase price. See Note 11 for further information related to the sales of these receivables.

Intercompany Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and jurisdictional returns. Duke Energy Kentucky has a tax sharing agreement with Duke Energy for the allocation of consolidated tax liabilities and benefits. Income taxes recorded represent amounts Duke Energy Kentucky would incur as a separate C-Corporation. Duke Energy Kentucky had an intercompany tax payable balance of \$2 million at December 31, 2018 and 2017.

9. DERIVATIVES AND HEDGING**COMMODITY PRICE RISK**

Duke Energy Kentucky has limited exposure to market price changes of fuel and emission allowance costs incurred for its retail customers due to the use of cost tracking and recovery mechanisms. Duke Energy Kentucky does have exposure to the impact of market fluctuations in the prices of electricity, fuel and emission allowances associated with its generation output not utilized to serve retail operations or committed load (off-system, wholesale power sales). Duke Energy Kentucky's outstanding commodity derivatives, financial transmission rights, had a notional volume of 1,786 gigawatt-hours at December 31, 2018.

See Note 10 for additional information on the fair value of commodity derivatives.

INTEREST RATE RISK

Duke Energy Kentucky is exposed to changes in interest rates as a result of its issuance or anticipated issuance of variable-rate and fixed-rate debt. Interest rate risk is managed by limiting variable-rate exposure to a percentage of total debt and by monitoring changes in interest rates. To manage risk associated with changes in interest rates, Duke Energy Kentucky may enter into financial contracts including interest rate swaps and U.S. Treasury lock agreements. The notional amount of interest rate swaps outstanding was \$26.7 million at December 31, 2018 and 2017. Financial contracts entered into by Duke Energy Kentucky are not designated as a hedge because they are accounted for under regulatory accounting. With regulatory accounting, the mark-to-market gains or losses are deferred as regulatory liabilities or assets. Regulatory assets and regulatory liabilities are amortized consistent with the treatment of related costs in the ratemaking process. The accrual of interest on swaps is recorded as Interest Expense on the Statements of Operations.

See Note 10 for additional information on the fair value of interest rate derivatives.

CREDIT RISK

Duke Energy Kentucky analyzes the financial condition of counterparties prior to entering into agreements and establishes credit limits and monitors the appropriateness of those limits on an ongoing basis. Credit limits and collateral requirements for retail electric customers are established by the KPSC.

Duke Energy Kentucky's industry has historically operated under negotiated credit lines for physical delivery contracts. Duke Energy Kentucky may use master collateral agreements to mitigate certain credit exposures. The collateral agreements require certain counterparties to post cash or letters of credit for the amount of exposure in excess of an established threshold. The threshold amount represents an unsecured credit limit determined in accordance with the corporate credit policy. Collateral agreements also provide that the inability to post collateral is sufficient cause to terminate contracts and liquidate all positions.

Duke Energy Kentucky also obtains cash or letters of credit from customers to provide credit support outside of collateral agreements, where appropriate, based on its financial analysis of the customer and the regulatory or contractual terms and conditions applicable to each transaction.

10. FAIR VALUE MEASUREMENTS

Fair value is the exchange price to sell an asset or transfer a liability in an orderly transaction between market participants at the measurement date. The fair value definition focuses on an exit price versus the acquisition cost. Fair value measurements use market data or assumptions market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique. These inputs may be readily observable, corroborated by market data or generally unobservable. Valuation techniques maximize the use of observable inputs and minimize use of unobservable inputs. A midmarket pricing convention (the midpoint price between bid and ask prices) is permitted for use as a practical expedient. Fair value measurements are classified in three levels based on the fair value hierarchy as defined by GAAP.

Fair value accounting guidance permits entities to elect to measure certain financial instruments that are not required to be accounted for at fair value, such as equity method investments or the company's own debt, at fair value. Duke Energy Kentucky has not elected to record any of these items at fair value.

Transfers between levels represent assets or liabilities that were previously (i) categorized at a higher level for which the inputs to the estimate became less observable or (ii) classified at a lower level for which the inputs became more observable during the period. Duke Energy Kentucky's policy is to recognize transfers between levels of the fair value hierarchy at the end of the period. There were no transfers between levels during the years ended December 31, 2018 and 2017.

Commodity derivatives

If forward price curves are not observable for the full term of the contract and the unobservable period had more than an insignificant impact on the valuation, the commodity derivative is classified as Level 3. The valuation technique and unobservable input for the financial transmission rights is regional transmission organization auction pricing and FTR price - per megawatt-hour, respectively.

Interest rate derivatives

Most over-the-counter interest rate contract derivatives are valued using financial models that utilize observable inputs for similar instruments and are classified as Level 2. Inputs include forward interest rate curves, notional amounts, interest rates and credit quality of the counterparties.

QUANTITATIVE DISCLOSURES

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Balance Sheets. Derivative amounts in the table below exclude cash collateral.

(in thousands)	December 31, 2018		
	Total Fair		
	Value	Level 2	Level 3
Derivative assets ^(a)	\$ 6,056	\$ —	\$ 6,056
Derivative liabilities ^(b)	(4,487)	(4,487)	—
Net assets (liabilities)	\$ 1,569	\$ (4,487)	\$ 6,056

(in thousands)	December 31, 2017		
	Total Fair		
	Value	Level 2	Level 3
Derivative assets ^(a)	\$ 1,444	\$ —	\$ 1,444
Derivative liabilities ^(b)	(5,367)	(5,367)	—
Net (liabilities) assets	\$ (3,923)	\$ (5,367)	\$ 1,444

(a) Included in Other within Current Assets and Other within Other Noncurrent Assets on the Balance Sheets. The amounts classified as Level 3 relate to financial transmission rights.

(b) Included in Other within Current Liabilities and Other within Other Noncurrent Liabilities on the Balance Sheets. The amounts classified as Level 2 relate to interest rate swaps.

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value on a recurring basis where the determination of fair value includes significant unobservable inputs (Level 3).

(in thousands)	Derivatives (net)	
	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ 1,444	\$ 4,916
Purchases, sales, issuances and settlements:		
Purchases	6,855	3,343
Settlements	(4,131)	(4,135)
Total gains (losses) included on the Balance Sheets as regulatory assets or liabilities	1,888	(2,680)
Balance at end of period	\$ 6,056	\$ 1,444

OTHER FAIR VALUE DISCLOSURES

The fair value of long-term debt, including current maturities, is summarized in the following table. Judgment is required in interpreting market data to develop the estimates of fair value. Accordingly, the estimates determined are not necessarily indicative of the amounts Duke Energy Kentucky could have settled in current markets. The fair value of long-term debt is determined using Level 2 measurements.

(in thousands)	December 31, 2018		December 31, 2017	
	Book value	Fair value	Book value	Fair value
Long-Term debt, including current maturities	\$ 550,110	\$ 553,922	\$ 451,180	\$ 475,973

At both December 31, 2018 and December 31, 2017, the fair value of cash and cash equivalents, accounts and notes receivable, and accounts and notes payable are not materially different from their carrying amounts because of the short-term nature of these instruments and/or because the stated rates approximate market rates.

11. VARIABLE INTEREST ENTITIES

A VIE is an entity that is evaluated for consolidation using more than a simple analysis of voting control. The analysis to determine whether an entity is a VIE considers contracts with an entity, credit support for an entity, the adequacy of the equity investment of an entity, and the relationship of voting power to the amount of equity invested in an entity. This analysis is performed either upon the creation of a legal entity or upon the occurrence of an event requiring reevaluation, such as a significant change in an entity's assets or activities. A qualitative analysis of control determines the party that consolidates a VIE. This assessment is based on (i) what party has the power to direct the activities of the VIE that most significantly impact its economic performance and (ii) what party has rights to receive benefits or is obligated to absorb losses that could potentially be significant to the VIE. The analysis of the party that consolidates a VIE is a continual reassessment.

Cinergy Receivables Company

CRC is a bankruptcy remote, special purpose entity that is an affiliate of Duke Energy Kentucky. As discussed below, Duke Energy Kentucky does not consolidate CRC as it is not the primary beneficiary. On a revolving basis, CRC buys certain accounts receivable arising from the sale of electricity, natural gas and related services from Duke Energy Kentucky. CRC borrows amounts under a credit facility to buy the receivables from Duke Energy Kentucky. Borrowing availability from the credit facility is limited to the amount of qualified receivables sold to CRC. The sole source of funds to satisfy the related debt obligation is cash collections from the receivables.

The proceeds Duke Energy Kentucky receives from the sale of receivables to CRC are approximately 75 percent cash and 25 percent in the form of a subordinated note from CRC. The subordinated note is a retained interest in the receivables sold. Duke Energy Kentucky had receivables of \$23.1 million and \$19.7 million from CRC at December 31, 2018 and December 31, 2017, respectively. These balances are included in Receivables from affiliated companies on the Balance Sheets and reflect Duke Energy Kentucky's retained interest in receivables sold to CRC.

CRC is considered a VIE because (i) equity capitalization is insufficient to support its operations, (ii) power to direct the activities that most significantly impact economic performance of the entity are not performed by the equity holder and (iii) deficiencies in net worth of CRC are funded by Duke Energy. The most significant activities that impact the economic performance of CRC are decisions made to manage delinquent receivables. Duke Energy is considered the primary beneficiary and consolidates CRC as it makes these decisions. Duke Energy Kentucky does not consolidate CRC.

The subordinated note held by Duke Energy Kentucky is stated at fair value. Carrying values of retained interests are determined by allocating carrying value of the receivables between assets sold and interests retained based on relative fair value. The allocated basis of the subordinated note is not materially different than its face value because (i) the receivables generally turnover in less than two months, (ii) credit losses are reasonably predictable due to the broad customer base and lack of significant concentration and (iii) the equity in CRC is subordinate to all retained interests and thus would absorb losses first. The hypothetical effect on fair value of the retained interests assuming both a 10 percent and a 20 percent unfavorable variation in credit losses or discount rates is not material due to the short turnover of receivables and historically low credit loss history. Interest accrues to Duke Energy Kentucky on the retained interests using the acceptable yield method. This method generally approximates the stated rate on the note since the allocated basis and the face value are nearly equivalent. An impairment charge is recorded against the carrying value of both retained interests and purchased beneficial interest whenever it is determined that an other-than-temporary impairment has occurred. Duke Energy Kentucky's maximum exposure to loss does not exceed the carrying value.

Key assumptions used in estimating fair value are detailed in the following table.

	2018	2017
Anticipated credit loss ratio	0.4%	0.5%
Discount rate	3.0%	2.1%
Receivables turnover rate	11.5%	11.4%

The following table presents gross and net receivables sold.

(in thousands)	December 31, 2018	December 31, 2017
Receivables sold	\$ 66,308	\$ 59,074
Less: Retained interests	23,070	19,736
Net receivables sold	\$ 43,238	\$ 39,338

The following table shows sales and cash flows related to receivables sold.

(in thousands)	Years Ended December 31,	
	2018	2017
Sales		
Receivables sold	\$ 478,134	\$ 417,779
Loss recognized on sale	2,290	1,704
Cash flows		
Cash proceeds from receivables sold	\$ 472,511	\$ 414,729
Collection fees received	239	209
Return received on retained interests	1,541	783

Cash flows from the sale of receivables are reflected within Cash Flows from Operating Activities on the Statements of Cash Flows.

Collection fees received in connection with the servicing of transferred accounts receivable are included in Operation, maintenance and other on the Statements of Operations. The loss recognized on sales of receivables is calculated monthly by multiplying receivables sold during the month by the required discount. The required discount is derived monthly utilizing a three-year weighted average formula that considers charge-off history, late charge history and turnover history on the sold receivables, as well as a component for the time value of money. The discount rate, or component for the time value of money, is the prior month-end LIBOR plus a fixed rate of 1.00 percent.

12. REVENUE

As described in Note 1, Duke Energy Kentucky adopted Revenue from Contracts with Customers effective January 1, 2018, using the modified retrospective method of adoption, which does not require restatement of prior year reported results. No cumulative effect adjustment was recorded as the vast majority of Duke Energy Kentucky's revenues are at-will and without a defined contractual term. Additionally, comparative disclosures for 2018 operating results with the previous revenue recognition rules are not applicable as Duke Energy Kentucky's revenue recognition has not materially changed as a result of the new standard.

Duke Energy Kentucky recognizes revenue consistent with amounts billed under tariff offerings or at contractually agreed upon rates based on actual physical delivery of electric or natural gas service, including estimated volumes delivered when billings have not yet occurred. As such, the majority of Duke Energy Kentucky's revenues have fixed pricing based on the contractual terms of the published tariffs, with variability in expected cash flows attributable to the customer's volumetric demand and ultimate quantities of energy or natural gas supplied and used during the billing period. The stand-alone selling price of related sales are designed to support recovery of prudently incurred costs and an appropriate return on invested assets and are primarily governed by published tariff rates or contractual agreements approved by relevant regulatory bodies. Certain excise taxes and franchise fees levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis as part of revenues. Duke Energy Kentucky elects to account for all other taxes net of revenues.

Performance obligations are satisfied over time as energy or natural gas is delivered and consumed with billings generally occurring monthly and related payments due within 30 days, depending on regulatory requirements. In no event does the timing between payment and delivery of the goods and services exceed one year. Using this output method for revenue recognition provides a faithful depiction of the transfer of electric and natural gas service as customers obtain control of the commodity and benefit from its use at delivery. Additionally, Duke Energy Kentucky has an enforceable right to consideration for energy or natural gas delivered at any discrete point in time, and will recognize revenue at an amount that reflects the consideration to which Duke Energy Kentucky is entitled for the energy or natural gas delivered.

As described above, the majority of Duke Energy Kentucky's tariff revenues are at-will and, as such, related contracts with customers have an expected duration of one year or less and will not have future performance obligations for disclosure.

Duke Energy Kentucky earns substantially all of its revenues through the sale of electricity and natural gas.

Electricity Sales

Electric sales revenues are earned primarily through retail and wholesale electric service through the generation, transmission, distribution and sale of electricity. Duke Energy Kentucky generally provides retail electric service customers with their full electric load requirements and sells wholesale block sales of electricity into the market.

Retail electric service is generally marketed throughout Duke Energy Kentucky's electric service territory through standard service offers. The standard service offers are through tariffs determined by the KPSC. Each tariff, which is assigned to customers based on customer class, has multiple components such as an energy charge, customer charge, demand charge and applicable riders. Duke Energy Kentucky considers each of these components to be aggregated into a single performance obligation for providing electric service. Electricity is considered a single performance obligation satisfied over time consistent with the series guidance and is provided and consumed over the billing period, generally one month. Retail electric service is typically provided to at-will customers who can cancel service at any time, without a substantive penalty. Additionally, Duke Energy Kentucky adheres to applicable regulatory requirements to ensure the collectability of amounts billed and appropriate mitigating procedures are followed when necessary. As such, revenue from contracts with customers is equivalent to the electricity supplied and billed in that period (including unbilled estimates).

Wholesale electric service is provided through block sales of electricity. Revenues for block sales are recognized monthly as energy is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates.

Natural Gas Sales

Natural gas sales revenues are earned through retail natural gas service through the transportation, distribution and sale of natural gas. Duke Energy Kentucky generally provides natural gas service customers with all natural gas load requirements. Additionally, while natural gas can be stored, substantially all natural gas provided by Duke Energy Kentucky is consumed by customers simultaneously with receipt of delivery.

Retail natural gas service is marketed throughout Duke Energy Kentucky's natural gas service territory using published tariff rates. The tariff rates are established by the KPSC. Each tariff, which is assigned to customers based on customer class, has multiple components, such as a commodity charge, customer or monthly charge and transportation costs. Duke Energy Kentucky considers each of these components to be aggregated into a single performance obligation for providing natural gas service. For contracts where Duke Energy Kentucky provides all of the customer's natural gas needs, the delivery of natural gas is considered a single performance obligation satisfied over time, and revenue is recognized monthly based on billings and unbilled estimates as service is provided and the commodity is consumed over the billing period. Additionally, natural gas service is typically at-will and customers can cancel service at any time, without a substantive penalty. Duke Energy Kentucky also adheres to applicable regulatory requirements to ensure the collectability of amounts billed and receivable and appropriate mitigating procedures are followed when necessary.

Disaggregated Revenues

For electric and natural gas sales, revenue by customer class is most meaningful to Duke Energy Kentucky as each respective customer class collectively represents unique customer expectations of service, generally has different energy and demand requirements and operates under tailored, regulatory approved pricing structures. Additionally, each customer class is impacted differently by weather and a variety of economic factors including the level of population growth, economic investment, employment levels and regulatory activities. As such, analyzing revenues disaggregated by customer class allows Duke Energy Kentucky to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers.

Disaggregated revenues are presented as follows:

(in thousands)	Year Ended
By market or type of customer	December 31, 2018
Electricity Sales	
Residential	\$ 142,113
General	145,904
Industrial	58,210
Wholesale ^(a)	11,566
Other revenues	7,998
Total Electricity Sales revenue from contracts with customers	\$ 365,791
Natural Gas Sales	
Residential	\$ 66,699
Commercial	28,580
Industrial	4,329
Other revenues	2,446
Total Natural Gas Sales revenue from contracts with customers	\$ 102,054
Total revenue from contracts with customers	\$ 467,845
Other revenue sources ^(b)	15,210
Total revenues	\$ 483,055

(a) Duke Energy Kentucky nets wholesale electric sales and purchases on an hourly basis. As such, the net position may result in fluctuations between positive and negative net revenues at the end of a reporting period.

(b) Other revenue sources includes revenues from derivatives, leases and alternative revenue programs that are not considered revenues from contracts with customers.

IMPACT OF WEATHER AND THE TIMING OF BILLING PERIODS

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions. Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling-degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating-degree day and each degree of temperature above the base temperature counts as one cooling-degree day.

The estimated impact of weather on earnings for electricity sales is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions, such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Natural gas costs and revenues are influenced by seasonal patterns due to peak natural gas sales occurring during the winter months as a result of space heating requirements. Residential customers are the most impacted by weather.

UNBILLED REVENUE

Unbilled revenues are recognized by applying customer billing rates to the estimated volumes of energy or natural gas delivered but not yet billed. Unbilled revenues can vary significantly from period to period as a result of seasonality, weather, customer usage patterns, customer mix, average price in effect for customer classes, timing of rendering customer bills and meter reading schedules, and the impact of weather normalization or margin decoupling mechanisms. Receivables on the Balance Sheets include amounts related to unbilled wholesale revenues of \$390 thousand and \$516 thousand at December 31, 2018 and 2017, respectively.

Duke Energy Kentucky sells nearly all of its retail accounts receivable, including receivables for unbilled revenues to CRC on a revolving basis. As discussed further in Note 8, Duke Energy Kentucky accounts for these transfers of receivables to CRC as sales. Accordingly, the receivables sold are not reflected on the Balance Sheets. Receivables for unbilled revenues included in the sales of accounts receivable to CRC were \$24 million and \$25 million at December 31, 2018 and 2017, respectively.

13. EMPLOYEE BENEFIT PLANS

DEFINED BENEFIT RETIREMENT PLANS

Duke Energy Kentucky participates in qualified and non-qualified defined benefit retirement plans and other post-retirement benefit plans sponsored by Duke Energy. Duke Energy allocates pension and other post-retirement obligations and costs related to these plans to Duke Energy Kentucky. The plans cover most employees using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage of current eligible earnings based on age and/or years of service and interest credits. Certain employees are covered under plans that use a final average earnings formula. Under these average earnings formulas, a plan participant accumulates a retirement benefit equal to the sum of percentages of their (i) highest three-year or four-year average earnings, (ii) highest three-year or four-year average earnings in excess of covered compensation per year of participation (maximum of 35 years), and/or (iii) highest three-year average earnings times years of participation in excess of 35 years. Duke Energy also maintains, and Duke Energy Kentucky participates in, non-qualified, non-contributory defined benefit retirement plans which cover certain executives. As of January 1, 2014, the qualified and non-qualified non-contributory defined benefit plans are closed to new participants.

Duke Energy approved plan amendments to restructure its qualified non-contributory defined benefit retirement plans, effective January 1, 2018. The restructuring involved (i) the spin-off of the majority of inactive participants from two plans into a separate inactive plan and (ii) the merger of the active participant portions of such plans. Benefits offered to the plan participants remain unchanged. Actuarial gains and losses associated with the inactive plan will be amortized over the remaining life expectancy of the inactive participants.

Duke Energy uses a December 31 measurement date for its defined benefit retirement plan assets and obligations.

Duke Energy's policy is to fund amounts on an actuarial basis to provide assets sufficient to meet benefit payments to be paid to plan participants. Actual contributions for Duke Energy Kentucky were \$72 thousand and \$1,324 thousand for the years ended December 31, 2018 and 2017, respectively. Duke Energy Kentucky does not anticipate making any contributions in 2019.

Net periodic benefit costs disclosed in the tables below represent the cost of the respective plan for the periods presented prior to capitalization of amounts reflected as Net property, plant and equipment, on the Balance Sheets. Only the service cost component of net periodic benefit costs is eligible to be capitalized. The remaining non-capitalized portions of net periodic benefit costs are classified as either: (i) service cost, which is recorded in Operations, maintenance and other on the Statements of Operations; or as (ii) components of non-service cost, which is recorded in Other income and expenses, net, on the Statements of Operations. Amounts presented in the tables below represent the amounts of pension and other post-retirement benefit cost allocated by Duke Energy for employees of Duke Energy Kentucky. Additionally, Duke Energy Kentucky is allocated its proportionate share of pension and other post-retirement benefit cost for employees of Duke Energy's shared services affiliate that provides support to Duke Energy Kentucky. These allocated amounts are included in the governance and shared services costs discussed in Note 8.

QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in thousands)	Years Ended December 31,	
	2018	2017
Service cost	\$ 1,488	\$ 1,451
Interest cost on projected benefit obligation	4,134	4,274
Expected return on plan assets	(6,473)	(6,290)
Amortization of prior service credit	(100)	(95)
Amortization of actuarial loss	1,957	1,912
Net periodic pension costs	\$ 1,006	\$ 1,252

Amounts Recognized in Regulatory Assets

(in thousands)	December 31,	
	2018	2017
Regulatory assets, net (decrease) increase	\$ (2,652)	\$ 3,340

Reconciliation of Funded Status to Net Amount Recognized

(in thousands)	Years Ended December 31,	
	2018	2017
Change in Projected Benefit Obligation		
Obligation at prior measurement date	\$ 116,977	\$ 106,067
Service cost	1,387	1,360
Interest cost	4,134	4,274
Actuarial (gains) losses	(11,107)	10,369
Transfers ^(a)	—	1,586
Benefits paid	(7,996)	(6,679)
Obligation at measurement date	\$ 103,395	\$ 116,977
Accumulated Benefit Obligation at measurement date	\$ 101,000	\$ 113,557
Change in Fair Value of Plan Assets		
Plan assets at prior measurement date	\$ 106,157	\$ 98,252
Actual return on plan assets	(3,941)	11,674
Benefits paid	(7,996)	(6,679)
Employer contributions	72	1,324
Transfers ^(a)	—	1,586
Plan assets at measurement date	\$ 94,292	\$ 106,157
Funded status of plan	\$ (9,103)	\$ (10,820)

(a) Transfers represents net amounts associated with plan participants that have moved to/from other Duke Energy subsidiaries.

Amounts Recognized in the Balance Sheets

(in thousands)	December 31,	
	2018	2017
Prefunded pension ^(a)	\$ 7,330	\$ 1,184
Noncurrent pension liability ^(b)	16,433	12,004
Net liability recognized	\$ (9,103)	\$ (10,820)
Regulatory assets	\$ 29,647	\$ 32,299
Amounts to be reported in net periodic pension expense in the next year		
Unrecognized net actuarial loss	\$ 875	\$ 1,664
Unrecognized prior service credit	(100)	(100)

(a) Included in Other within Investments and Other Assets on the Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Balance Sheets.

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in thousands)	December 31,	
	2018	2017
Projected benefit obligation	\$ 40,901	\$ 102,755
Accumulated benefit obligation	38,506	99,335
Fair value of plan assets	24,468	90,750

Assumptions Used for Pension Benefits Accounting

	December 31,	
	2018	2017
Benefit Obligations		
Discount rate	4.30%	3.60%
Salary increase	3.50%	3.50%
Net Periodic Benefit Cost		
Discount rate	3.60%	4.10%
Salary increase	3.50%	4.40%
Expected long-term rate of return on plan assets	6.50%	6.50%

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for the projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

NON-QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in thousands)	Years Ended December 31,	
	2018	2017
Interest cost on projected benefit obligation	\$ 5	\$ 6
Amortization of actuarial loss	4	4
Net periodic pension costs	\$ 9	\$ 10

Amounts Recognized in Regulatory Assets

(in thousands)	December 31,	
	2018	2017
Regulatory assets, net (decrease) increase	\$ (10)	\$ 1

Reconciliation of Funded Status to Net Amount Recognized

(in thousands)	Years Ended December 31,	
	2018	2017
Change in Projected Benefit Obligation		
Obligation at prior measurement date	\$ 141	\$ 140
Interest cost	5	6
Actuarial (gains) losses	(6)	6
Benefits paid	(11)	(11)
Obligation at measurement date	\$ 129	\$ 141
Accumulated Benefit Obligation at measurement date	\$ 129	\$ 141
Change in Fair Value of Plan Assets		
Benefits paid	\$ (11)	\$ (11)
Employer contributions	11	11
Plan assets at measurement date	\$ —	\$ —

Amounts Recognized in the Balance Sheets

(in thousands)	December 31,	
	2018	2017
Current pension liability ^(a)	\$ 10	\$ 10
Noncurrent pension liability ^(b)	119	131
Total accrued pension liability	\$ 129	\$ 141
Regulatory assets	\$ 42	52
Amounts to be recognized in net periodic pension expense in the next year		
Unrecognized net actuarial loss	\$ 3	4

- (a) Included in Other within Current Liabilities on the Balance Sheets.
(b) Included in Accrued pension and other post-retirement benefit costs on the Balance Sheets.

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in thousands)	December 31,	
	2018	2017
Projected benefit obligation	\$ 129	\$ 141
Accumulated benefit obligation	129	141

Assumptions Used for Pension Benefits Accounting

	December 31,	
	2018	2017
Benefit Obligations		
Discount rate	4.30%	3.60%
Salary increase	3.50%	3.50%
Net Periodic Benefit Cost		
Discount rate	3.60%	4.10%
Salary increase	3.50%	4.40%

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for the projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

OTHER POST-RETIREMENT BENEFIT PLANS

Duke Energy provides, and Duke Energy Kentucky participates in, some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans. The health care benefits include medical, dental, and prescription drug coverage and are subject to certain limitations, such as deductibles and co-payments.

Duke Energy did not make any pre-funding contributions to its other post-retirement benefit plans during the years ended December 31, 2018 and 2017.

Components of Net Periodic Other Post-Retirement Benefit Costs

(in thousands)	Years Ended December 31,	
	2018	2017
Service cost	\$ 202	\$ 82
Interest cost on projected benefit obligation	210	254
Expected return on plan assets	(69)	(78)
Amortization of prior service credit	(236)	(184)
Amortization of actuarial loss (gain)	286	(144)
Curtailment credit	—	(614)
Net periodic post-retirement pension costs	\$ 393	\$ (684)

Amounts Recognized in Regulatory Assets and Regulatory Liabilities

(in thousands)	December 31,	
	2018	2017
Regulatory assets, net decrease	\$ (255)	\$ (280)
Regulatory liabilities, net increase (decrease)	373	(717)

Reconciliation of Funded Status to Accrued Other Post-Retirement Benefit Costs

(in thousands)	Years Ended December 31,	
	2018	2017
Change in Projected Benefit Obligation		
Accumulated post-retirement benefit obligation at prior measurement date	\$ 6,052	\$ 6,556
Service cost	202	82
Interest cost	210	254
Plan participants' contributions	211	193
Actuarial (gains) losses	(699)	197
Transfers ^(a)	—	85
Plan amendments	—	(642)
Benefits paid	(622)	(673)
Accrued retiree drug subsidy	203	—
Accumulated post-retirement benefit obligation at measurement date	\$ 5,557	\$ 6,052
Change in Fair Value of Plan Assets		
Plan assets at prior measurement date	\$ 1,433	\$ 1,519
Actual return on plan assets	(52)	160
Plan participants' contributions	211	193
Benefits paid	(622)	(673)
Transfers ^(a)	—	36
Employer contributions	382	198
Plan assets at measurement date	\$ 1,352	\$ 1,433
Funded status of plan	\$ (4,205)	\$ (4,619)

(a) Transfers represents net amounts associated with plan participants that have moved to/from other Duke Energy subsidiaries.

Amounts Recognized in the Balance Sheets

(in thousands)	December 31,	
	2018	2017
Current post-retirement liability ^(a)	\$ 162	\$ 159
Noncurrent post-retirement liability ^(b)	4,043	4,460
Total accrued post-retirement liability	\$ 4,205	\$ 4,619
Regulatory assets	\$ 2,075	\$ 2,330
Regulatory liabilities	\$ 5,206	\$ 4,833
Amounts to be recognized in net periodic pension expense in the next year		
Unrecognized net actuarial loss	\$ 15	\$ 31
Unrecognized prior service credit	\$ (236)	\$ (236)

(a) Included in Other within Current Liabilities on the Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Balance Sheets.

Assumptions Used for Other Post-Retirement Benefits Accounting

	December 31,	
	2018	2017
Benefit Obligations		
Discount rate	4.30%	3.60%
Net Periodic Benefit Cost		
Discount rate	3.60%	4.10%
Expected long-term rate of return on plan assets	6.50%	6.50%

The discount rate used to determine the current year other post-retirement benefits obligation and following year's other post-retirement benefits expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for the projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

Assumed Health Care Cost Trend Rate

	December 31,	
	2018	2017
Health care cost trend rate assumed for next year	6.50%	7.00%
Rate to which the cost trend is assumed to decline (the ultimate trend rate)	4.75%	4.75%
Year that the rate reaches the ultimate trend rate	2024	2024

Expected Benefit Payments

The following table presents Duke Energy's expected benefit payments to participants on behalf of Duke Energy Kentucky in its qualified, non-qualified and other post-retirement benefit plans over the next 10 years. These benefit payments reflect expected future service, as appropriate.

(in thousands)	Qualified	Non-Qualified	Other Post-	Total
	Plans	Plans	Retirement Plans	
Years ending December 31,				
2019	\$ 6,640	\$ 11	\$ 939	\$ 7,590
2020	8,144	11	735	8,890
2021	8,710	11	655	9,376
2022	8,310	10	630	8,950
2023	7,983	10	584	8,577
2024-2028	37,732	50	2,179	39,961

MASTER RETIREMENT TRUST

The assets for the Duke Energy Kentucky plans discussed above are derived from the Master Trust that is held by Duke Energy and, as such, Duke Energy Kentucky is allocated its proportionate share of assets discussed below. Assets for both the qualified pension and other post-retirement benefits are maintained in the Master Trust. Duke Energy also invests other post-retirement assets in Voluntary Employees' Beneficiary Association trusts. The investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants. As of December 31, 2018, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.85 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their high expected return. Debt securities are primarily held to hedge the qualified pension plan liability. Real assets, return seeking fixed income, hedge funds and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers or investments.

Effective January 1, 2019, the target asset allocation for the Duke Energy Retirement Master Trust is 58 percent liability hedging assets and 42 percent return-seeking assets. Duke Energy periodically reviews its asset allocation targets, and over time, as the funded status of the benefit plans increase, the level of asset risk relative to plan liabilities may be reduced to better manage Duke Energy's benefit plan liabilities and reduce funded status volatility.

The following table presents target and actual asset allocations for the Master Trust at December 31, 2018 and 2017.

Asset Category	Target Allocation	Actual Allocation at	
		December 31,	
		2018	2017
U.S. equity securities	10%	11%	11%
Non-U.S. equity securities	8%	8%	8%
Global equity securities	10%	10%	10%
Global private equity securities	3%	2%	2%
Debt securities	63%	63%	63%
Hedge funds	2%	2%	2%
Real estate and cash	2%	2%	2%
Other global securities	2%	2%	2%
Total	100%	100%	100%

EMPLOYEE SAVINGS PLAN

Duke Energy Kentucky also participates in employee savings plans sponsored by Duke Energy. Most employees participate in a matching contribution formula where Duke Energy provides a matching contribution generally equal to 100 percent of employee before-tax and Roth 401(k) contributions and, as applicable, after-tax contributions of up to 6 percent of eligible pay per period.

For new and rehired non-union and certain unionized employees who are not eligible to participate in Duke Energy's defined benefit plans, an additional employer contribution of 4 percent of eligible pay per pay period, which is subject to a three-year vesting schedule, is provided to the employee's savings plan account.

Duke Energy Kentucky's expense related to its proportionate share of pretax employer contributions and the additional 4 percent employer contribution was \$1,181 thousand and \$1,035 thousand for the years ended December 31, 2018 and 2017, respectively.

14. INCOME TAXES

Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35 to 21 percent, limits interest deductions outside of regulated utility operations, requires the normalization of excess deferred taxes associated with property under the average rate assumption method as a prerequisite to qualifying for accelerated depreciation and repealed the federal manufacturing deduction.

On December 22, 2017, the SEC staff issued SAB 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act, which provides guidance on accounting for the Tax Act's impact. SAB 118 provides a measurement period, which in no case should extend beyond one year from the Tax Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Act under ASC Topic 740. In accordance with SAB 118, a company must reflect the income tax effects of the Tax Act in the reporting period in which the accounting under ASC Topic 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete, a company can determine a reasonable estimate for those effects and record a provisional estimate in the financial statements in the first reporting period in which a reasonable estimate can be determined.

As of December 31, 2018, the accounting for the effects of the Tax Act is complete. During the year ended December 31, 2018, Duke Energy Kentucky recorded the following measurement period adjustments in accordance with SAB 118:

- Additional tax expense of \$2.4 million related to the completion of the analysis of Duke Energy Kentucky's existing regulatory liability related to deferred taxes.
- The majority of Duke Energy Kentucky's operations are regulated and it is expected that they will ultimately pass on the savings associated with the amount representing the remeasurement of deferred tax balances related to regulated operations to customers. For Duke Energy Kentucky's regulated operations, where the reduction is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. During 2018, Duke Energy Kentucky recorded an additional regulatory liability of \$7.6 million, representing the revaluation of those deferred tax balances.

INCOME TAX EXPENSE

Components of Income Tax Expense (Benefit)

(in thousands)	Years Ended December 31,	
	2018	2017
Current income taxes		
Federal	\$ (15,545)	\$ (13,442)
State	(1,794)	(87)
Total current income taxes	(17,339)	(13,529)
Deferred income taxes		
Federal	26,832	9,746
State	4,059	2,709
Total deferred income taxes	30,891	12,455
Investment tax credit amortization	(78)	(87)
Total income tax expense (benefit) included in Statements of Operations	\$ 13,474	\$ (1,161)

Statutory Rate Reconciliation

The following table presents a reconciliation of income tax expense at the U.S. federal statutory tax rate to actual tax expense.

(in thousands)	Years Ended December 31,	
	2018	2017
Income tax expense, computed at the statutory rate of 21 percent in 2018 and 35 percent in 2017	\$ 13,289	\$ 20,383
State income tax, net of federal income tax effect	1,702	1,705
Amortization of excess deferred income tax	(2,626)	—
Tax Credits	(478)	(747)
Tax Act	2,381	(21,276)
Other items, net	(794)	(1,226)
Total income tax expense (benefit)	\$ 13,474	\$ (1,161)
Effective tax rate ^(a)	21.3%	(2.0)%

(a) The increase in the effective tax rate was primarily due to the prior year revaluation of deferred tax assets and liabilities as a result of the Tax Act.

DEFERRED TAXES

Net Deferred Income Tax Liability Components

(in thousands)	Years Ended December 31,	
	2018	2017
Deferred credits and other liabilities	\$ 150	\$ 38
Tax credits and NOL carryforwards	11,913	4,059
Pension, post-retirement and other employee benefits	4,491	4,970
Regulatory liabilities and deferred credits	9,655	7,104
Investments and other liabilities	824	718
Other	1,056	581
Total deferred income tax assets	28,089	17,470
Accelerated depreciation rates	(242,807)	(203,907)
Total deferred income tax liabilities	(242,807)	(203,907)
Net deferred income tax liabilities	\$ (214,718)	\$ (186,437)

The following table presents the expiration of tax credits and NOL carryforwards.

(in thousands)	December 31, 2018	
	Amount	Expiration Year
Investment tax credits	\$ 4,346	2024 — 2038
Federal NOL carryforwards ^(a)	7,532	2037 — Indefinite
State NOL carryforwards and credits	35	2037
Total tax credits and NOL carryforwards	\$ 11,913	

(a) Indefinite carryforward for Federal NOLs generated in tax years beginning after December 31, 2017.

UNRECOGNIZED TAX BENEFITS

The following table presents changes to unrecognized tax benefits.

(in thousands)	Years Ended December 31,	
	2018	2017
Unrecognized tax benefits – January 1	\$ 143	\$ —
Unrecognized tax benefits increases		
Gross increases – tax positions in prior periods	—	143
Gross increases – current period tax positions	50	—
Total changes	50	143
Unrecognized tax benefits – December 31	\$ 193	\$ 143

OTHER TAX MATTERS

Duke Energy Kentucky recognized no interest income, interest expense or penalties related to income taxes on the Statements of Operations in 2018 or 2017. As of December 31, 2018 and 2017, no amounts were recognized on the Balance Sheets for interest or penalties related to income taxes.

Duke Energy Kentucky is no longer subject to U.S. federal examination for years before 2015. With few exceptions, Duke Energy Kentucky is no longer subject to state, local or non-U.S. income tax examinations by tax authorities for years before 2014.

15. SUBSEQUENT EVENTS

For information on subsequent events related to the adoption of the new lease accounting standard and regulatory matters, see Notes 1 and 2.