

KyPSC Case No. 2020-00371
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STAFF-DR-01-001

REQUEST:

Refer to the Application, paragraph 15. For each program listed, explain whether the program has been reinstated since suspending due to the COVID-19 pandemic and what steps Duke Kentucky has taken to ensure COVID-19 protocols are in place.

RESPONSE:

Program 1: Residential Smart \$aver[®] Energy Efficient Residences Program:

The Residential Smart Saver – HVAC program that falls under “Program 1: Residential Smart \$aver[®] Energy Efficient Residences Program” did not suspend during the COVID-19 pandemic. The program continued to accept, process and fulfill rebate applications for qualifying equipment and services on behalf of customers. Rebate applications are submitted online by the trade ally contractors, and rebate rewards are mailed directly to the customer without any face-to-face interaction between Duke Energy/fulfillment vendor and customers. The program did suspend customer marketing campaigns from late March through July 2020. Program personnel did suspend, and continues to suspend, in-home customer inspections and in-person meetings with trade ally contractors. During this time, program communications and meetings are held via teleconference or through online platform, as well as email to provide support and assistance. The Company developed Customer Engagement Protocol document and trained program personnel in the proper use

of Personal Protective Equipment. In addition, the program communicated these Customer Engagement Protocols with trade ally contractors, and COVID-19 messaging to customers.

PERSON RESPONSIBLE: Mark Otersen

Program 2: Residential Smart Saver® Energy Efficient Products Program:

The Free LED program that falls under “Program 2: Residential Smart Saver® Energy Efficient Products Program” was never suspended during the COVID-19 pandemic. The program continued to operate with shipments being delivered directly to customer homes without any face-to-face contact between Duke Energy/fulfillment vendor and customers.

The program did discontinue as planned, unrelated to the COVID-19 pandemic, on 6/30/2020 as a result of potential efficiency standards for general service bulbs that may be imposed as a part of the Energy Independence and Security Act (EISA). Although, there is still uncertainty as to how and when this legislation will be imposed, Duke Energy moved forward with its sunseting strategy.

The Save Energy and Water Program that falls under “Program 2: Residential Smart Saver® Energy Efficient Products Program” was not suspended during the COVID-19 pandemic. Direct mail and email marketing were temporarily suspended in March while Duke Energy Kentucky sent COVID-19 messaging to the customer base. The program continued to ship Program kits directly to customer homes without any face-to-face contact between Duke Energy/fulfillment vendor and customers.

The Multifamily Program that falls under “Program 2: Residential Smart Saver® Energy Efficient Products Program” was suspended in March 2020 during the COVID-19

pandemic. At the end of 2020, the Program was still suspended as a safety precaution for both Duke Energy Kentucky customers and Program vendor staff.

PERSON RESPONSIBLE: Greg Schielke and Greg Simmons

Program 3: Residential Energy Assessments Program (Residential Home Energy House Call):

The Residential Energy Assessments Program was suspended from mid-March to the first of July and then again for selected periods after the Thanksgiving and before and after the Christmas and New Year holidays during the COVID-19 pandemic. The suspension period in the early part of 2020 were due to the need to develop safety protocols and acquire PPE needed to continue program operations. The suspensions during the Thanksgiving, Christmas and New Year holidays are in response to a general increase in COVID19 cases in the Duke Energy jurisdictions and due to an expected increase in travel by customers.

Energy Specialists are required to notify Program Vendor management if they have been exposed to anyone that has tested positive for COVID19 or has exhibited any symptoms. This notification may result in an employee being quarantined and referred to their Primary Care Provider for follow-up and any required testing. Energy Specialists perform a daily health self-assessment which includes a temperature check and reporting any symptoms. The Program Vendor reviews this information and decides if any employees must be removed from the field as a precaution.

Customers are screened prior to and on the day of the appointment to determine if the customer has COVID symptoms or has been exposed to anyone with COVID. If the customer passes all screening questions, the Energy Specialist will continue with the home

audit. Upon arrival, the Energy Specialist will don a mask, goggles, fresh clean gloves, and shoe covers before encountering the customer. At the door, the Energy Specialist will perform a visual evaluation of the customer to determine if the customer is exhibiting symptoms. During the audit, customers are encouraged to wear masks and asked to maintain a minimum of 6 feet of separation with the Energy Specialist. At the end of the audit, the Energy Specialist emails the audit results to the customer. Before re-entering the vehicle, the auditor disposes of gloves and shoe covers and sterilizes all materials taken into the home.

Energy Specialists are required to notify Program Vendor management if they have been exposed to someone that has tested positive for COVID.

PERSON RESPONSIBLE: Greg Simmons

Program 4: Low Income Services Program:

The Weatherization and Refrigerator Replacement programs were reinstated. The local agency Duke Energy partners with for the program implemented that technicians wear masks and follow all social distancing requirements.

The Payment Plus program was reinstated on 11/11/20. The original program was set up to handle 100 customers in a class twice per year. Multiple smaller class sizes are being utilized to maintain social distancing requirements. Participants are required to wear masks and follow all social distancing requirements.

PERSON RESPONSIBLE: Chad Lynch

Program 5: Residential Direct Load Control- Power Manager® Program:

Power Manager was suspended and reinstated due to COVID-19 pandemic. Duke Energy Kentucky Power Manager program is a contactless program; however, Duke's vision is a relentless drive to protect the safety of our employees, communities and environment. As part of our response to the COVID-19 outbreak, everyone is being asked to practice risk mitigation and prevention techniques that mitigate the spread of the virus. The best way to prevent infection is to avoid exposures. Social distance remains the primary and most effective defense against the spread of COVID-19 and must be practiced whenever possible, even if you're wearing a face covering.

PERSON RESPONSIBLE: Kimberly Blakeney

Program 6: Smart \$aver® Prescriptive Program and Program 7: Smart \$aver®

Custom Program:

The Non-Residential Smart \$aver program does not require in-person contact to process rebate applications (through paper applications nor the online application platform), so the program was never fully suspended due to the COVID-19 pandemic. Program employees are able to process rebate applications while working from home and continue to do so currently. However, the program did suspend all in-person activities due to COVID-19, unless requested by the customer. If the customer requests an onsite visit, they are required to meet Duke Energy COVID 19 protocols which include but are not limited to: use of PPE equipment; mask, gloves, hand sanitizer, and confirmation of no known COVID cases or exposure on the customer's sight within 24 hours of the visit. The Non-Residential Smart

Saver program continues to conduct in-person program outreach in this reactive phase only.
All proactive outreach remains virtual.

PERSON RESPONSIBLE: Nate Lewis

Program 8: Peak Load Manager (Rider PLM) - PowerShare® Program:

The PowerShare® Program does not require in-person contact however Duke Energy Kentucky did work to implement corporate COVID-19 engagement protocols for all customer/contract/vendor interactions. The program has been reinstated and is actively operating with respect to corporate COVID protocols the company has put in place minimizing any potential employee, contractor, and customer contact.

PERSON RESPONSIBLE: Heather Evans

Program 9: Low Income Neighborhood Program:

The Low-Income Neighborhood Program is still suspended due to the COVID-19 pandemic. This program is scheduled to relaunch March 1, 2021. The program originally focused on door to door canvassing for marketing. With the relaunch, marketing of the program will focus on targeted mailings and phone call campaigns with a customer scheduling an appointment. No door to door canvassing will be utilized. Also, the relaunch will focus on single family homes only. The program will be touchless for the customer and no materials will be left behind after completion of a customer appointment. Only one technician will be at the customer's home and will don all proper PPE, as well as follow social distancing requirements. Educational documents will be emailed to customer. If customer does not have access to email, then the documents will be mailed. The original

program also requires furnace filters be left with the customer upon completion of work. Under the relaunch, the furnace filters will be delivered to the customer at a later date.

PERSON RESPONSIBLE: Chad Lynch

Program 10: My Home Energy Report Program:

My Home Energy Report (MyHer) was not shut down and due to its no-touch design, there are not additional protocols in place for customers.

PERSON RESPONSIBLE: Tara Bolen

Program 11: Small Business Energy Saver Program:

Small Business Energy Saver was reinstated. The program has put into place safety training for all Duke Energy and implementation vendor employees that covers safety protocols required to complete their jobs and PPE required for different situations and task. In addition, the implementation vendor has deployed a daily health check app that requires each employee to submit a daily health status to determine their fitness for work. The health check requires each employee to verify they do not have a fever, are not experiencing any other COVID-19 symptoms and have not been exposed to anyone with COVID-19. Finally, the implementation vendor is tracking any customer interactions incase an employee does later test positive for COVID-19.

Program 12: Non-Residential Pay for Performance:

The Company did not market the program due to the high success of our Prescriptive and Custom programs. COVID measures were not applicable

PERSON RESPONSIBLE: Trisha Haemmerle

Program 13: Peak Time Rebate Pilot Program:

The Peak Time Rebate Pilot Program does not require in-person contact however Duke Energy Kentucky did work to implement corporate COVID-19 engagement protocols for all customer/contract/vendor interactions.

PERSON RESPONSIBLE: Bruce Sailors

Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020

STAFF-DR-01-002

REQUEST:

Refer to the Application, paragraph 16, Summary of Load Impacts, July 2019-June 2020, and to Case No. 2019-00406,¹ Application, page 6, Summary of Load Impacts July 2018-June 2019.

- a. For the Residential Programs,
 - 1) Explain what contributed to the increase in energy, or kWh, impacts.
 - 2) Explain what contributed to the decrease in demand, or kW, impacts.
- b. For the Non-Residential Programs,
 - 1) Explain what contributed to the decrease in energy, or kWh, impacts.
 - 2) Explain what contributed to the decrease in demand, or kW, impacts.

RESPONSE:

- a.
 - 1) The increase in energy or kWh impacts for Residential Programs is driven by increased participation in the My Home Energy Report and Residential Smart Saver programs.
 - 2) There was not a decrease in demand or kW overall for Residential Programs. The current Application, paragraph 16, Summary of Load Impacts, July 2019-June 2020 reports kW impacts of 14,298 for Residential Programs. Case No. 2019-00406,

¹ Case No. 2019-00406, *Electronic Annual Cost Recovery Filing for Demand Side Management by Duke Energy Kentucky, Inc.* (Ky. PSC Nov. 15, 2019).

Application, page 6, summary of Load Impacts July 2018-June 2019 reported kW impacts of 13,879 kW for Residential Programs.

b. 1) The decrease in energy, or kWh impacts for Non-Residential Programs is due to decreased participation in the Smart Saver Custom program.

2) The decrease in demand, or kW is driven by decreased participation in the Smart Saver Custom and PowerShare programs.

PERSON RESPONSIBLE: Julie Hollingsworth

Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020

STAFF-DR-01-003

REQUEST:

Refer to the Application, paragraph 29, which states that 6,117 bulbs were sold equaling 535 orders. Also, refer to Case No. 2019-00406, Application, paragraph 29, which states that 60,351 bulbs were sold equaling 5,458 orders. Explain in detail the reasons for the large decrease in bulb orders.

RESPONSE:

It appears numbers provided for fiscal year 2019 were inadvertently submitted as a partial year update representing only the first half of 2020. The fiscal year participation for July 2019 – June 2020 is 28,783. Of the 28,783 bulbs, 27,586 of these represent incentivized orders while 1,197 represent non-incentivized orders.

The contributing factors to the decrease include:

- 1) In 2020, COVID messaging took prioritization impacting planned outreach beginning March.
- 2) Platform enhancements additionally contributed as project work minimized marketing during the upgrades to the store March through June.

PERSON RESPONSIBLE: Shannon Gardner

**Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020**

STAFF-DR-01-004

REQUEST:

Refer to the Application, paragraph 37. The Save Energy and Water Kit (SEWK) program is budgeted at 8,304 measures; however, more than that have been issued. Explain whether Duke Kentucky plans to increase the number of budgeted measures.

RESPONSE:

No. The Program is budgeted for 6,204 measures for fiscal 2020-2021. The Program will work within the allotted amount of Program costs to achieve the filed goals. In fiscal 2019-2020, the filed Program costs allowed for increased Marketing which drove additional Participation.

PERSON RESPONSIBLE: Greg Simmons

**Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020**

STAFF-DR-01-005

REQUEST:

Refer to the Application, paragraph 41.

- a. Explain in detail the meaning of “additional” in the last sentence in which Duke Kentucky states that 1,350 additional LED bulbs and 63 additional bathroom aerators were installed.
- b. Explain whether there were other measures installed prior to those stated but within the fiscal year of July 1, 2019, through June 30, 2020.

RESPONSE:

- a. The additional LED bulbs and bathroom aerators refers to LED bulbs and bathroom aerators installed beyond the quantities included in the Program kit. The Program kit included 2 A-19 LED bulbs and 1 bathroom aerator.
- b. No other measures were installed for customers during the time period other than those in the Program Kit and the additional measures.

PERSON RESPONSIBLE: Greg Simmons

**Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020**

STAFF-DR-01-006

REQUEST:

Refer to the Application, paragraph 43. Duke Kentucky states that the program is structured so that homes needing the most work, and having the highest use per square foot, receives the most funding. Explain whether the tier structure gives households incentives to use more energy.

RESPONSE:

The tier structure does not give households incentives to use more energy since it is only utilized internally by Duke Energy and the program vendor. Households are not typically aware of the tier structure. Households are notified of qualifying measure installs based on an energy audit completed by the program vendor.

PERSON RESPONSIBLE: Chad Lynch

Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020

STAFF-DR-01-007

REQUEST:

Refer to the Application, paragraph 47. The paragraph states in part, “a household could receive up to a total of \$500 towards their arrearage. This allows for approximately 200 homes to participate per year.”

- a. Explain how many low-income customers there are in the Low income Assistance program currently.
- b. Explain how the 200 household program participation limit was derived.
- c. Provide the forecasted number of low-income customers who will be qualified for this program in 2021. If this number is projected to be greater than 200, explain how Duke Kentucky selects 200 participants among these low-income customers.

RESPONSE:

- a. For the 2020-2021 program year, 46 eligible customers have participated in the Payment Plus program since 11/11/20 when the program was relaunched.
- b. The 200-participant limit was selected to be able to create a budget. Also, the program was modified last year to remove the minimum \$300 arrearage balance to be eligible and adjusted the income qualified at less than 150% of Federal Poverty Level. Now a customer only needs to have an arrearage balance and have an income qualified at less than 200% of the Federal Poverty Level which will increase participation.

- c. It is projected that for the program year 2020-2021 that 120 participants will participate in the program.

PERSON RESPONSIBLE: Chad Lynch

Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020

STAFF-DR-01-008

REQUEST:

Refer to the Application, paragraph 50. Explain whether Duke Kentucky has conducted any studies on the impact of suspending energy education classes due to COVID-19. Clearly explain the impact to show the importance of these classes to the customers and to Duke Kentucky.

RESPONSE:

No studies on the impact of suspending the energy education classes due to COVID-19 was conducted. The Payment Plus program was relaunched on 11/11/20. Since the relaunch on 11/11/20, 46 customers have participated in the program.

These classes are important to a customer because they educate the customer about:

- a. How to read Customer's utility bills,
- b. Significance of turning down the thermostat,
- c. Importance of cleaning/replacing furnace filters,
- d. Fireplace tips and water heating tips,
- e. How behavior and habits affect energy use,
- f. Low cost and no cost actions to improve energy use,
- g. Duke Weatherization services,
- h. Significance of tracking spending,
- i. Flexible and fixed expenses,
- j. Balancing a checkbook,
- k. Setting financial goals for the future,
- l. Importance of paying the utility bill, and
- m. Other social services available.

These classes are important to Duke Energy Kentucky, because it gives the Company the opportunity to engage with our customers and provide educational services for customers

to better understand their energy usage. Also, if a customer can change behaviors to improve their energy usage, they will lower their energy bill and more likely be able to pay their bill to avoid arrearage balances.

PERSON RESPONSIBLE: Chad Lynch

Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020

STAFF-DR-01-009

REQUEST:

Refer to the Application, paragraph 110. Provide any updates that Duke Kentucky may have regarding the cost-effective scores.

RESPONSE:

The Company has secured the cost reduction in contract services related to the implementation of technology enhancements for processing, validating, and fulfilling of rebate applications for HVAC related measures within the Residential Smart \$aver[®] program. In addition, the Company has undertaken an evaluation to update the incremental participant cost to reflect current market information. The inclusion of these updates in program operating efficiencies and incremental participant cost dramatically improve the cost-effective scores. The results are shown below:

DEK: Residential Smart \$aver - HVAC related measures	Updated Cost-Effectiveness Scores 1/2021			
	UCT_Cost Based Norm	TRC_Cost Based Norm	RIM (Net Fuel)_Cost Based Norm	Participan t Test
Heat Pump Water Heater	1.75	1.23	0.63	2.84
Pool Pump	2.80	2.20	0.99	3.35
Smart Saver - Attic Insul & Air Sealing - Non-Referred	2.94	1.70	0.95	2.56
Smart Saver - Attic Insul & Air Sealing - Referred	3.08	1.69	0.97	2.55
Smart Saver - Central Air Conditioner Tier 2 - Non-Referred	0.82	0.69	0.56	1.38
Smart Saver - Central Air Conditioner Tier 2 - Referred	0.90	0.71	0.59	1.38
Smart Saver - Central Air Conditioner Tier 3 - Non-Referred	0.80	0.50	0.57	0.86
Smart Saver - Central Air Conditioner Tier 3 - Referred	0.89	0.51	0.61	0.86
Smart Saver - Duct Sealing - Non-Referred	4.15	1.70	1.63	1.42
Smart Saver - Duct Sealing - Referred	4.70	1.76	1.71	1.42
Smart Saver - Heat Pump Tier 2 - Non-Referred	1.06	0.64	0.58	1.32
Smart Saver - Heat Pump Tier 2 - Referred	1.24	0.68	0.63	1.32
Smart Saver - Heat Pump Tier 3 - Non-Referred	0.60	0.30	0.44	0.62
Smart Saver - Heat Pump Tier 3 - Referred	0.68	0.31	0.48	0.63
Smart Thermostat - Non-Referred	1.07	1.31	0.46	5.62
Smart Thermostat - Referred	1.10	1.34	0.46	5.63
Total All Measures	1.11	0.86	0.59	1.83

The other side of the equation is the benefits from the avoided cost resulting from the impacts of energy (kWh) and demand (kW) savings. The updated cost-effectiveness scores above are based on targeted energy and demand savings from an HVAC Impact Analysis study conducted in 2015 by a third-party consultant as part of the Company's filing in 2016 introducing the tiered incentive level for HVAC equipment. EM&V reports undertaken since that time in other Duke Energy jurisdictions have produced significantly higher energy and demand savings impacts. The Company believes similar results would be realized for Duke Energy Kentucky, which would favorably position the cost-effectiveness scores. Therefore, the Company requests the continuation of these measures that address the largest sources of energy consumption in residential homes pending the completion of an EM&V program evaluation.

PERSON RESPONSIBLE: Mark Otersen

**Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020**

STAFF-DR-01-010

REQUEST:

Refer to the Application, Appendix B. Provide a copy of this exhibit in Excel spreadsheet format with all formulas intact and unprotected and with all columns and rows accessible.

RESPONSE:

Please see STAFF-DR-01-010 Attachment.

PERSON RESPONSIBLE: Julie Hollingsworth

Kentucky DSM Rider

Comparison of Revenue Requirement to Rider Recovery

Residential Programs	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Projected Program Costs 7/2019 to 6/2020 (A)	Projected Lost Revenues 7/2019 to 6/2020 (A)	Projected Shared Savings 7/2019 to 6/2020 (A)	Program Expenditures 7/2019 to 6/2020 (B)	Program Expenditures (C) Gas	Electric	Lost Revenues 7/2019 to 6/2020 (B)	Shared Savings 7/2019 to 6/2020 (B)	2019 Reconciliation		Rider Collection (F) Gas	Electric	(Over)/Under Gas (G)	Collection Electric (H)
Low Income Neighborhood	\$ 371,468	\$ 7,935	\$ (15,844)	\$ 158,232	\$ -	\$ 158,232	\$ 3,394	\$ (7,678)						
Low Income Services	\$ 810,628	\$ 11,128	\$ (30,069)	\$ 477,566	\$ 275,989	\$ 201,577	\$ 4,095	\$ (28,151)						
My Home Energy Report	\$ 165,696	\$ 161,739	\$ 13,511	\$ 82,028	\$ -	\$ 82,028	\$ 34,406	\$ 707						
Residential Energy Assessments	\$ 326,678	\$ 15,180	\$ 7,262	\$ 152,247	\$ -	\$ 152,247	\$ 12,090	\$ 6,203						
Residential Smart Saver®	\$ 1,949,221	\$ 260,300	\$ 252,080	\$ 2,064,345	\$ -	\$ 2,064,345	\$ 178,042	\$ 195,043						
Power Manager®	\$ 564,560	\$ -	\$ 131,418	\$ 607,753	\$ -	\$ 607,753	\$ -	\$ 117,092						
Peak Time Rebate Program	\$ 207,736	\$ -	\$ -	\$ 36,811	\$ -	\$ 36,811	\$ -	\$ -						
Revenues collected														
Total	\$ 4,395,987	\$ 456,282	\$ 358,358	\$ 3,578,982	\$ 275,989	\$ 3,302,993	\$ 232,028	\$ 283,216	\$ 1,746,882	\$ (7,212,847)	\$ (509,633)	\$ (3,272,047)	\$ 2,532,504	\$ (122,563)

(A) Amounts identified in report filed in Case No. 2018-00370

(B) Actual program expenditures, lost revenues (for this period and from prior period DSM measure installations), and shared savings for the period July 1, 2019 through June 30, 2020.

(C) Allocation of program expenditures to gas and electric in accordance with the Commission's Order in Case No. 2014-00388.

(D) Recovery allowed in accordance with the Commission's Order in Case No. 2012-00085.

(E) Recovery allowed in accordance with the Commission's Order in Case No. 2012-00085.

(F) Revenues collected through the DSM Rider between July 1, 2019 and June 30, 2020.

(G) Column (5) + Column (9) - Column(11).

(H) Column (6) + Column (7) + Column (8) + Column (10) - Column(12).

Commercial Programs	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Projected Program Costs 7/2019 to 6/2020 (A)	Projected Lost Revenues 7/2019 to 6/2020 (A)	Projected Shared Savings 7/2019 to 6/2020 (A)	Program Expenditures 7/2019 to 6/2020 (B)	Lost Revenues 7/2019 to 6/2020 (B)	Shared Savings 7/2019 to 6/2020 (B)	2019 Reconciliation (C)	Rider Collection (D)	(Over)/Under Collection (E)
Small Business Energy Saver	\$ 874,529	\$ 36,499	\$ 116,303	\$ 460,326	\$ 94,779	\$ 69,968			
Smart Saver® Custom	\$ 675,415	\$ 36,816	\$ 155,383	\$ 397,763	\$ 190,461	\$ 125,576			
Smart Saver® Prescriptive	\$ 1,676,125	\$ 60,956	\$ 520,952	\$ 1,141,244	\$ 154,998	\$ 452,467			
Power Manager® for Business	\$ -	\$ -	\$ -	\$ 1,283	\$ 80	\$ 545			
Total	\$ 3,226,069	\$ 134,271	\$ 792,638	\$ 2,000,615	\$ 440,319	\$ 648,555	\$ 340,779	\$ 8,702,093	\$ (5,271,825)
PowerShare®	\$ 908,290	\$ -	\$ 153,191	\$ 650,303	\$ -	\$ 139,905	\$ 304,370	\$ 1,514,890	\$ (420,313)

(A) Amounts identified in report filed in Case No. 2018-00370

(B) Actual program expenditures, lost revenues (for this period and from prior period DSM measure installations), and shared savings for the period July 1, 2019 through June 30, 2020.

(C) Recovery allowed in accordance with the Commission's Order in Case No. 2012-00085.

(D) Revenues collected through the DSM Rider between July 1, 2019 and June 30, 2020.

(E) Column (4) + Column (5) + Column (6) + Column (7) - Column (8)

2021-2022 Projected Program Costs, Lost Revenues, and Shared Savings

Residential Program Summary (A)

	Residential Program Summary (A)				Allocation of Costs (B)			Budget (Costs, Lost Revenues, & Shared Savings)		
	<u>Costs</u>	<u>Lost Revenues</u>	<u>Shared Savings</u>	<u>Total</u>	<u>Electric</u>	<u>Gas</u>	<u>Electric Costs</u>	<u>Electric</u>	<u>Gas Costs</u>	
Low Income Neighborhood	\$ 334,354	\$ 15,147	\$ (12,075)	\$ 337,426	100.0%	0.0%	\$ 334,354	\$ 337,426	\$ -	
Low Income Services	\$ 674,774	\$ 13,372	\$ (23,004)	\$ 665,141	57.7%	42.3%	\$ 389,359	\$ 379,726	\$ 285,415	
My Home Energy Report	\$ 92,858	\$ 59,707	\$ 4,925	\$ 157,491	100.0%	0.0%	\$ 92,858	\$ 157,491	\$ -	
Residential Energy Assessments	\$ 259,935	\$ 20,469	\$ 6,026	\$ 286,429	100.0%	0.0%	\$ 259,935	\$ 286,429	\$ -	
Residential Smart \$aver®	\$ 1,009,464	\$ 137,430	\$ 36,691	\$ 1,183,586	100.0%	0.0%	\$ 1,009,464	\$ 1,183,586	\$ -	
Power Manager®	\$ 702,947	\$ -	\$ 113,199	\$ 816,146	100.0%	0.0%	\$ 702,947	\$ 816,146	\$ -	
Peak Time Rebate Program	\$ 197,549	\$ -	\$ -	\$ 197,549	100.0%	0.0%	\$ 197,549	\$ 197,549	\$ -	
Total Costs, Net Lost Revenues, Shared Savings	\$ 3,271,881	\$ 246,125	\$ 125,762	\$ 3,643,768			\$ 2,986,466	\$ 3,358,353	\$ 285,415	

NonResidential Program Summary (A)

	NonResidential Program Summary (A)				Allocation of Costs (B)			Budget (Costs, Lost Revenues, & Shared Savings)		
	<u>Costs</u>	<u>Lost Revenues</u>	<u>Shared Savings</u>	<u>Total</u>	<u>Electric</u>	<u>Gas</u>	<u>Electric Costs</u>	<u>Electric</u>	<u>Gas</u>	
Small Business Energy Saver	\$ 827,238	\$ 40,699	\$ 105,787	\$ 973,725	100.0%	0.0%	\$ 827,238	\$ 973,725	NA	
Smart \$aver® Custom	\$ 938,180	\$ 78,053	\$ 233,546	\$ 1,249,779	100.0%	0.0%	\$ 938,180	\$ 1,249,779	NA	
Smart \$aver® Prescriptive (C)	\$ 504,975	\$ 43,088	\$ 145,368	\$ 693,431	100.0%	0.0%	\$ 504,975	\$ 693,431	NA	
PowerShare®	\$ 857,738	\$ -	\$ 107,428	\$ 965,166	100.0%	0.0%	\$ 857,738	\$ 965,166	NA	
Total Costs, Net Lost Revenues, Shared Savings	\$ 3,128,132	\$ 161,841	\$ 592,128	\$ 3,882,101			\$ 3,128,132	\$ 3,882,101	NA	
Total Program	\$ 6,400,013	\$ 407,966	\$ 717,890	\$ 7,525,869						

(A) Costs, Lost Revenues (for this period and from prior period DSM measure installations), and Shared Savings for Year 9 of portfolio.

(B) Allocation of program expenditures to gas and electric in accordance with the Commission's Order in Case No. 2014-00388.

(C) Smart \$aver® Prescriptive consists of the following technologies: Energy Efficient Food Service Projects, HVAC, Lighting, IT, Pumps and Motors, and Process Equipment.

Duke Energy Kentucky
Demand Side Management Cost Recovery Rider (DSMR)
Summary of Calculations for Programs

July 2020 to June 2021

	Program Costs (A)
<u>Electric Rider DSM</u>	
Residential Rate RS	\$ 3,358,353
Distribution Level Rates Part A DS, DP, DT, GS-FL, EH & SP	\$ 2,916,935
Transmission Level Rates & Distribution Level Rates Part B	\$ 965,166
<u>Gas Rider DSM</u>	
Residential Rate RS	\$ 285,415

(A) See Appendix B, page 2 of 7

Duke Energy Kentucky
Demand Side Management Cost Recovery Rider (DSMR)
Summary of Billing Determinants

Year	2021
Projected Annual Electric Sales kWh	
Rate RS	1,487,109,845
Rates DS, DP, DT, GS-FL, EH, & SP	2,237,356,418
Rates DS, DP, DT, GS-FL, EH, SP, & TT	2,475,033,418
Projected Annual Gas Sales CCF	
Rate RS	62,283,830

Duke Energy Kentucky
Demand Side Management Cost Recovery Rider (DSMR)
Summary of Calculations

July 2019 to June 2020

Rate Schedule Riders	True-Up Amount (A)	Expected Program Costs (B)	Total DSM Revenue Requirements	Estimated Billing Determinants (C)	DSM Cost Recovery Rider (DSMR)
<u>Electric Rider DSM</u>					
Residential Rate RS	\$ (124,291)	\$ 3,358,353	\$ 3,234,062	1,487,109,845 kWh	\$ 0.002175 \$/kWh
Distribution Level Rates Part A DS, DP, DT, GS-FL, EH & SP	\$ (5,346,158)	\$ 2,916,935	\$ (2,429,222)	2,237,356,418 kWh	\$ (0.001086) \$/kWh
Transmission Level Rates & Distribution Level Rates Part B TT	\$ (426,239)	\$ 965,166	\$ 538,927	2,475,033,418 kWh	\$ 0.000218 \$/kWh
Distribution Level Rates Total DS, DP, DT, GS-FL, EH & SP					\$ (0.000868) \$/kWh
<u>Gas Rider DSM</u>					
Residential Rate RS	\$ 2,568,212	\$ 285,415	\$ 2,853,627	62,283,830 CCF	\$ 0.045817 \$/CCF
Total Rider Recovery			\$ 4,197,393		

(A) (Over)/Under of Appendix B page 1 multiplied by the average three-month commercial paper rate for 2019 to include interest on over or under-recovery in accordance with the Commission's order in Case No. 95-312. Value is:
 (B) Appendix B, page 2.
 (C) Appendix B, page 4.

Allocation Factors based on July 2019-
 June 2020

Summary of Load Impacts July 2019 Through June 2020 (1)

	<u>kWh</u>	<u>% of Total Res Sales</u>	<u>ccf</u>	<u>% of Total Res Sales</u>	<u>Elec % of Total Sales</u>	<u>% of Gas</u>	<u>% of Total Sales</u>
Residential Programs							
Low Income Neighborhood	138,758	0.0092%	-	0.0000%	100%		0%
Low Income Services	122,143	0.0081%	6,549	0.0111%	42%		58%
My Home Energy Report	1,596,695	0.1061%	-	0.0000%	100%		0%
Residential Energy Assessments	285,139	0.0190%	-	0.0000%	100%		0%
Residential Smart \$aver®	6,640,873	0.4414%	-	0.0000%	100%		0%
Power Manager®	-	0.0000%	-		100%		0%
Total Residential	8,783,608	0.5838%	6,549	0.0111%			
Total Residential (Rate RS) Sales For July 2019 Through June 2020	1,504,643,154	100%	58,919,207	100%			

(1) Load Impacts Net of Free Riders at Meter

Summary of Load Impacts July 2021 Through June 2022 (1)

Allocation Factors Projected

Residential Programs	kWh	% of Total Res Sales	ccf	% of Total Res Sales	Elec % of Total	% of	Gas % of Total	% of
					Sales	Sales	Sales	Sales
Low Income Neighborhood	224,406	0.0151%	-	0.0000%		100%		0%
Low Income Services	255,140	0.0172%	7,833	0.0126%		58%		42%
My Home Energy Report	1,338,472	0.0900%	-	0.0000%		100%		0%
Residential Energy Assessments	384,320	0.0258%	-	0.0000%		100%		0%
Residential Smart \$aver®	2,038,692	0.1371%	-	0.0000%		100%		0%
Power Manager®	-	0.0000%	-	0.0000%		100%		0%
Total Residential	4,241,029	0.2852%	7,833	0.0126%				
Total Residential (Rate RS) Sales Projected	1,487,109,845	100%	62,283,830	100%				

(1)Load Impacts Net of Free Riders at Meter

Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020

STAFF-DR-01-011

REQUEST:

Refer to the Application, Appendix B, page 1 of 7. Also, refer to Case No. 2019-00406, Appendix B, page 2 of 7. For each of the following programs, explain why the projected program costs, low revenues, and shared savings have changed:

- a. Low Income Neighborhood.
- b. Low Income Services.
- c. My Home Energy Report.
- d. Residential Energy Assessments.
- e. Residential Smart Saver.
- f. Power Manager.
- g. Small Business Energy Saver.
- h. Smart Saver Custom Smart Saver Prescriptive.
- i. PowerShare.

RESPONSE:

Case No. 2019-0406 Appendix B, page 2 of 7 includes projected program costs, lost revenues, and shared savings for the July 2020 - June 2021 fiscal year. The current Application, Appendix B, page 1 of 7 projected program costs, lost revenue, and shared savings were filed in Case No. 2018-00370 (Appendix B - page 2 of 7) and amended as necessary per the order from Case No. 2019-00277 (Appendix B - page 2 of 7).

PERSON RESPONSIBLE: Julie Hollingsworth

Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020

STAFF-DR-01-012

REQUEST:

Explain whether Duke Kentucky has evaluated additional low-income DSM programs, and if so, provide a list of programs evaluated and reasons why Duke Kentucky has not submitted the programs for approval.

RESPONSE:

Duke Energy Kentucky is currently evaluating modifications to the existing Low-Income Neighborhood Program. The modifications would include the following additional deeper measures based on energy usage per square footage of home:

- Attic Insulation
- Duct Sealing
- Air Sealing
- Smart Thermostats

Duke Energy Kentucky has not submitted these modifications for approval because costs and cost effectiveness is still being evaluated internally. Also, program implementation is still being developed, since this work would require a separate contractor to revisit the home to complete the work.

PERSON RESPONSIBLE: Chad Lynch

Duke Energy Kentucky
Case No. 2020-00371
Staff First Set Data Requests
Date Received: December 22, 2020

STAFF-DR-01-013

REQUEST:

In Case No. 2019-00193,¹ Big Rivers Electric Cooperation (BREC) received approval to create a pilot DSM program to provide weatherization assistance to low-income residents for weatherization related measures that otherwise would not be completed due to limitations on other funding to correct residential health and safety issues. BREC's program provides \$1,500 to local Community Action Agencies that provide weatherization assistance to low-income residential customers of BREC's member distribution cooperatives pursuant to the Federal Department of Energy's Weatherization Assistance Program. Explain whether Duke Kentucky has evaluated such a program.

RESPONSE:

Duke Energy Kentucky has not evaluated a program that focuses on health and safety issues.

PERSON RESPONSIBLE: Chad Lynch

¹ Case No. 2019-00193, *Demand-Side Management Filing of Big Rivers Electric Corporation to Implement a Low-Income Weatherization Support Program* (Ky. PSC No. 13, 2019).