

RECEIVED

AUG 11 2021

PUBLIC SERVICE
COMMISSION

To: Commonwealth of Kentucky
Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, Kentucky 40602

From: Joseph J. Oka
42 Ross Avenue
Fort Mitchell, KY 41017

August 9, 2021

Dear Honorable Commissioners,

I am tendering with this letter my Formal Complaint against Duke Energy Kentucky.

As instructed by Rosemary Tutt via a phone conversation on August 4th, 2021, I am submitting a single paper copy sent via regular mail.

Thank you in advance for your consideration.

If you have any questions or concerns please feel free to contact me a [REDACTED] or email [REDACTED]

If you need an electronic version please reach out to me.

Sincerely,



Joseph J. Oka

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the matter of:

JOSEPH J. OKA)
_____))
(Your Full Name))
COMPLAINANT)
VS.)
DUKE ENERGY KENTUCKY)
_____))
(Name of Utility))
DEFENDANT)

COMPLAINT

The complaint of JOSEPH J. OKA respectfully shows:
(Your Full Name)

(a) JOSEPH J. OKA
(Your Full Name)

42 Ross Avenue, Fort Mitchell, KY 41017
(Your Address)

(b) DUKE ENERGY KENTUCKY
(Name of Utility)

See following page for three addresses for Duke
(Address of Utility)

(c) That: See attached pages for complaint
(Describe here, attaching additional sheets if necessary,

the specific act, fully and clearly, or facts that are the reason

and basis for the complaint.)

Continued on Next Page

Formal Complaint

JOSEPH J. OKA vs. DUKE ENERGY KENTUCKY

Page 2 of 2

see attached pages

Wherefore, complainant asks See attached pages (Specifically state the relief desired.)

Dated at Fort Mitchell, Kentucky, this 9th day (Your City)

of August, 2021 (Month)

Handwritten signature of Joseph J. Oka over a line labeled (Your Signature*)

(Name and address of attorney, if any)

Date

*Complaints by corporations or associations, or any other organization having the right to file a complaint, must be signed by its attorney and show his post office address. No oral or unsigned complaints will be entertained or acted upon by the commission.

Factual Background

I, Joseph Oka, reside at 42 Ross Avenue, Fort Mitchell, KY. I am a Duke customer. I have resided at this address for 13 years since 2008.

December 2019 - I applied for interconnection and net metering with Duke Energy Kentucky.

January 2020 - I received approval from Duke to interconnect a 24.14 KW photovoltaic (PV) system.

March 2020 - A seventy-one (71) panel, 24.14KW photovoltaic system was fully installed and operational. Duke installed a bi-directional meter that reads in two directions the energy coming and going and displays the net balance. With this meter a meter reading with a negative number indicates that I made more energy than I used and is read as 0 kWh on bills. A positive number meter reading indicates that I used more energy from the grid than I made. My monthly meter reading was usually a negative number, meaning my system made more energy than my house used. My meter identifying number was 331452121.

Duke bill dated 1/28/2021 (See EXHIBIT 1) is an example of my bills using the standard bi-directional meter. This bill has a graphical presentation labeled “electrical usage history” that shows that I made more energy than I use since the installation of the PV system.

Winter/Spring 2020-2021- Duke began to circulate a letter to eligible customer generators informing them that their older bi-directional meters would be swapped out for new AMI “smart meters” and that all accounts would remain the same in addition to greater transparency. (See EXHIBIT 2)

Duke bill dated 2/24/2021 (See EXHIBIT 3) is an example of a confusing Duke bill that appears to be during Duke’s transition from their system of giving proper one-to-one (1:1) kilowatt-hour denominated energy credit provided for electricity fed into the grid to a new system of “Net Metering Adjustment.” Note the strange \$295.42 Net Metering Adjustment in the Billing Summary and the correct (1:1) kWh credit given in the “current electric usage for meter number 331452121”

April 2021- My home received a new AMI “smart meter” with identifying number 337388417. I carried a credit of 3029 kWh to the new meter.

Duke bill dated 4/27/2021 (See EXHIBIT 4) is a bill using both the old and the new AMI meters under the new billing scheme. Note that the “electric usage history” graph has been removed and does not appear on all subsequent bills. This bill shows the old and

the new meter readings. The readings for new meter number 337388417 does not show the credit for the 3029 kWh transferred from the old meter 331452121.

Duke bill dated 5/25/2021 (See EXHIBIT 5) is the first bill completely under the new billing scheme and new meter. Note that the bill does not show my accumulated excess energy credit for energy fed back to Duke.

Latest Duke bills dated 6/24/2021 (EXHIBIT 6) & 7/28/21 (EXHIBIT 7) are entered to establish in Complaint 1 that the new "Net Metering Adjustment" has been in use since 2/24/2021 until the present.

CURRENT TO THIS FILING:

August 5th, 2021- For the June 22 to July 22, 2021 billing period Duke reported to me over the phone that I drew 875 kWh from them and delivered 2209 kWh to them; a net of 1344 kWh in energy credit.

August 5th, 2021- Duke reported to me over the phone that my total credit surplus is 8017 kWh. 8017kWh will power my home for several months.

(c) That:

Complaint I

That Duke Energy Kentucky is not giving me, an eligible customer-generator with Advanced Metering Infrastructure (AMI) meter (also referred to as “smart meters”), the proper (1:1) kilowatt-hour denominated energy credit as prescribed by KRS 278.466 section 6. (ATTACHMENT 1 is KRS 278.465-466)

KRS 278.466 section 6 states:

“ For an eligible electric generating facility in service prior to the effective date of the initial net metering order by the commission in accordance with subsection (3) of this section, the net metering tariff provisions in place when the eligible customer-generator began taking net metering service, including the one-to-one (1:1) kilowatt-hour denominated energy credit provided for electricity fed into the grid, shall remain in effect at those premises for a twenty-five (25) year period, regardless of whether the premises are sold or conveyed during that twenty-five (25) year period.”

Below is the pertinent portion of my previously submitted electric bill (EXHIBIT 1).

This bill, dated 1/28/2021, covers service for December 2, 2020 to January 23, 2021.

This bill is demonstrative of billing before the new AMI meters. Note, that if I fed back more energy than I used, the “Energy used” portion of the bill would always read 0kWh.

Note further, that the only charges in the “Billing details-Electric” are the connection charge of \$12.90 and the Environmental Surplus Mechanism Rider (ESM) of \$0.83 based on the revenue of the \$12.90 connection charge.

Note the absence of a Demand Side Management Cost Recovery Program Rider (DSM) or an Electric Fuel Adjustment tariff.

Current electric usage for meter number 331452121	
Actual reading on Jan 22	0
Previous reading on Dec 21	0
Energy used	0 kWh
kWh Usage	0



A kilowatt-hour (kWh) is a measure of the energy used by a 1,000-watt appliance in one hour. A 10-watt LED lightbulb would take 100 hours to use 1 kWh.

Current gas usage for meter number 001120452	
Actual reading on Jan 23	204
Previous reading on Dec 21	195
Gas used	9 CCF



One centum cubic foot (CCF) is the amount of gas in a 100-cubic-foot space. If you have a standard oven, it would take about 20 hours to use 1 CCF of gas.

Billing details - Electric

Meter - 331452121	
Rate RS - Residential Service	
Customer Charge	\$12.90
Environmental Surcharge Mechanism Rider (ESM)	0.83
Total Charges	\$13.73

Your current rate is Residential Service (RS).

For a complete listing of all Kentucky rates and riders, visit duke-energy.com/rates

Contrast the above bill with the pertinent portion of bill dated 6/24/2021 (EXHIBIT 6) received after the installation of the new AMI meters.

Note the following on this bill starting from top to bottom:

In the "Billing Summary" the appearance of a credit (highlighted in yellow) called the "Net Metering Adjustment," denominated in dollars.



duke-energy.com
1.800.544.6900

Your Energy Bill

page 1 of 4

Service address
JOSEPH J OKA
42 BOSS
FORT MITCHELL KY 41017

Bill date Jun 24, 2021
For service May 21 - Jun 22
32 days

Account number 2370-3665-020

Billing summary

Previous amount due	\$40.13
Payment received Jun 16	-40.13
Current Gas Charges	21.52
Current Electric Charges	89.89
Net Metering Adj	-75.93
Tax Adjustment	-2.35
Tax Adjustment	-2.28
Taxes	6.80
Total amount due Jul 16	\$37.65



Thank you for your payment.

Know what's below. Call before you dig. Always call 811 before you dig. It's the law. Making this free call at least two full business days before you dig gets utility lines marked and helps protect you from injury and expense. Call 811 or visit kentucky811.org.

Net Metering Applicable.

In the "Your Usage Snapshot – continued" section (below) appears the "Energy used" (highlighted in yellow) showing 844 kWh used. HOWEVER, this is a deceptive label. This is the number of kWh I drew from Duke WITHOUT receiving proper credit for the kWh my system sent back to Duke. This is where I am not receiving the (1:1) kWh ratio as prescribed by KRS. The label is deceptive because at first glance it appears that I drew more energy from the grid than I used, but this is not the case. Duke then goes on to charge tariffs and fees based on this uncredited 844 kWh.



duke-energy.com
1.800.544.6900

page 3 of 4

Account number 2370-3665-020

Your usage snapshot – continued

Current electric usage for meter number 337388417	
Actual reading on Jun 22	1964
Previous reading on May 21	- 1120
Energy used	844 kWh
kWh Usage	844



A kilowatt hour (kWh) is a measure of the energy used by a 1,000-watt appliance in one hour. A 10-watt LED lightbulb would take 100 hours to use 1 kWh.

Below In the "Billing Details-Electric" portion Duke applies DSM and the Electric Fuel Adjustment tariff to the 844 kWh. It appears that ESM is applied to theoretical revenue of

\$89.89. I do not know with certainty how ESM is calculated, but it should be based on actual revenue collected, not an uncollected charge. Note that my ESM charges went from 83 cents (See EXHIBIT1) before AMI to \$6.80 afterwards, an eight fold increase. Through all this non-transparent billing, I somehow receive the “Net Metering Adjustment” denominated in dollars. I am still not able to determine how it is calculated. Note also, nowhere on the bill is a section showing my credits for kWh fed back to Duke. As of this filing, Duke has/is continuing this billing practice. (See EXHIBITS 6 &7)

Billing details - Electric

Meter - 337388417		Your current rate is Residential Service (RS).
Rate RS - Residential Service		For a complete listing of all Kentucky rates and riders, visit duke-energy.com/rates
Customer Charge	\$12.90	
Energy Chrg		
844 kWh @ \$0.079431	67.04	
Demand Side Management Cost Recovery Program Rider (DSM)		
844 kWh @ \$0.002175	1.84	
Off-System Sales Profit Sharing Mechanism Rider (PSM)		
844 kWh @ \$-0.000475	-0.40	
Elec Fuel Adjustment		
844 kWh @ \$0.001965	1.66	
Environmental Surcharge Mechanism Rider (ESM)	6.85	
Total Charges	\$89.89	

Complaint II

That Duke Energy Kentucky knowingly made this change in billing in disregard and violation of KRS 278.466 sections 2 and 3. The Spirit of these sections reminds Duke that any change in additional metering capabilities must still yield the same result as when the single bi directional meter was installed.

KRS 278.466 Section 2 states:

“Each retail electric supplier serving a customer with eligible electric generating facilities shall use a standard kilowatt-hour meter capable of registering the flow of electricity in two (2) directions. Any additional meter, meters, or distribution upgrades needed to monitor the flow in each direction shall be installed at the customer-generator’s

expense. If additional meters are installed, the net metering calculation shall yield the same result as when a single meter is used.”

In this case, the new AMI meters, were installed by Duke at their expense. The AMI meters were touted to the customer as having additional metering capabilities that would create transparency; however, they are not being used as the underlined section above states. They are not yielding the same result as a single bi-directional meter that can run forward or backwards. Duke is using this meter to charge me extra tariffs based on energy drawn from the grid without giving the proper (1:1) kWh denominated credit to me.

KRS 278.466 Section 3 directs Duke as follows:

“A retail electric supplier serving an eligible customer-generator shall compensate that customer for all electricity produced by the customer's eligible electric generating facility that flows to the retail electric supplier, as measured by the standard kilowatt-hour metering prescribed in subsection (2) of this section. The rate to be used for such compensation shall be set by the commission using the ratemaking processes under this chapter during a proceeding initiated by a retail electric supplier or generation and transmission cooperative on behalf of one (1) or more retail electric suppliers.

Evidence that this is a willful change in billing is Duke's response to my informal complaint. Duke's response was sent to the PSC, not me. (See EXHIBIT 8) The letter from the PSC, dated July 6, 2021, contains Dukes response, dated May 27, 2021. In their response, Duke says I have a 3,029 kWh credit and that I drew 403 kWh from them and was credited in dollars, not kilowatt-hours:

“...we credited 403 kWh at \$33.41+ \$1.03 Beechwood School Tax + \$1.00 Fort Mitchell Franchise Fee totaling \$35.44. So for April, with his credits, Mr. Oka paid \$11.93 for having service with us. The rest of it was credit.”

By their own admission, I was not credited in kilowatt-hours, but the 403 kWh were converted to a dollars; $403\text{kWh} = \$33.41$. Nowhere does Duke show how they calculate 403kWh to equal \$33.41. If I was properly credited 403 kWh for what I fed back to the grid then the net amount of usage would be zero kWh.

Additionally, I dispute Duke in their May 27th response to the PSC. Duke wrote that my electric charges for April were \$11.93; this amount is even below the normal monthly connection fee of \$12.90. Examining the bill (EXHIBIT 4) one will see the actual amount I paid for electricity was \$13.96. The point is that Duke does not demonstrate how it comes up with the "Net Metering Adjustment" in dollars.

Complaint III

That Duke Energy Kentucky, under their new AMI billing scheme is illicitly "Double Dipping," on my PV system that feeds back more electricity to the grid than I receive. Under Duke's new billing scheme they charge me DSM, Electric Fuel Adjustment tariff and extra ESM, for energy drawn from the grid even though I run a surplus of credits. Duke then sells the energy my system feeds back to the grid and charges the new recipient of that energy, the same tariffs. In other words, Duke is receiving excess energy essentially for free, charging the customer-generator who produced the excess energy and the customer who received the energy DSM, Electric Fuel Adjustment Tariff and ESM. Duke does not pay Fuel Costs for this energy, but charges it coming and going. I am not able to charge Duke my costs of taxes, insurance, interest and maintenance associated with owning my PV system. This problem all stems from Duke not giving the proper kWh denominated credit.

Complaint IV

That Duke Energy Kentucky, by changing their billing to not give the proper one-to-one (1:1) kilowatt-hour denominated energy credit provided for electricity fed into the grid, knowingly failed to adhere to the ratemaking process as prescribed by KRS 278.466 section 3. That by giving a “Net Metering Adjustment” in dollars, not kilowatt-hours, Duke has essentially redefined the meaning and value of net metering without PSC approval. (Reference KRS 278.466 section 3 above in Complaint 2)

Complaint V

That Duke Energy Kentucky did not leave my rates the same as stated in the letter sent to eligible customer-generators. (EXHIBIT2) See portion of Duke’s letter below. Duke states that their “energy rates would remain the same.” This is not true. My rates have changed from kWh denominated credits to dollar denominated credits. This is a subversion of the rate making process. Duke, by changing the value of energy that my PV system delivers to the grid, has created de facto time of day charging since I draw most grid energy at night. Another way to look at this is, without PSC approval, Duke decided on its own to pay me a “wholesale-like” price for surplus energy supplied to the grid and then to resell it at full retail price.

New smart meter with more capabilities.

Dear <First Name, Last Name>,

We are upgrading your net meter with better, two-way communication. Currently your meter technology only allows your meter to roll forward or roll backward, but the new meter will reflect two distinct line items on your bill:

1. Your current electric charges in each billing period (see line A)
2. Your net metering adjustment in each billing period expressed as a bill credit (see line B)

Your account, energy rate and other terms will all remain the same. Once your new meter is installed, your future bills will more clearly illustrate your energy consumption, production and any bill credits applied to your account.

We hope you enjoy this new feature and the transparency into your monthly energy use. If you have any questions, please call us at 800.521.2232.

Sincerely,
Duke Energy

An example of your future bill.

Billing summary	
Previous amount due	\$48.31
Payments received Jul 15	-10.82
Current Electric Charges	65.12
Net Metering Adj	-52.12
Taxes	1.14
Total amount due Aug 27	115.00

Complaint VI

That Duke's letter to eligible customer-generators (EXHIBIT 2, see portion above) informing them of the new AMI meters stated that "once your new meter is installed, your future bills will more clearly illustrate your energy consumption, production and any bill credits applied to your account." The new bill does not show any production values or the balance of building kWh credits. I must call Duke on the phone to get this information.

Complaint VII

That Duke Energy Kentucky violated their Net Metering tariff. (EXHIBIT 9) Page 1&2

“Metering and Billing” paragraphs are provided below. Note the second to last sentence in the Metering section:

“In method (2) or (3), subtracting one register or meter reading from the other register or meter reading will yield the same result as if method (1) were used.”

Method (1) requires the net amount of kWh to be held in one register. Duke’s current methodology does not follow these rules; there should be no difference with the new “smart meters” as when the older bi-directional meters were still in use.

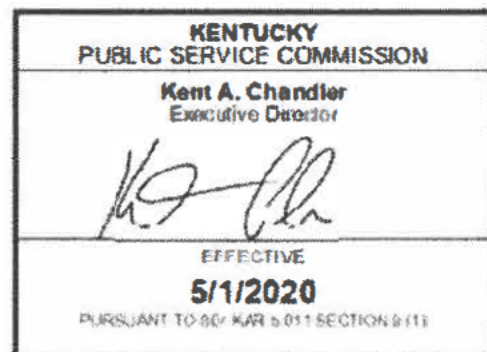
METERING

The Company shall provide net metering services, without any cost to the Customer for metering equipment, through a standard kilowatt-hour metering system capable of measuring the flow of electricity in two (2) directions. This provision does not relieve Customer of his or her responsibility to pay metering costs embedded in the utility’s Commission-approved base rates.

The standard kilo-watt-hour metering system shall use one of the following methods, as determined solely by the Company:

- (1) A single standard kilowatt-hour meter capable of measuring the flow of electricity in two (2) directions and registering the net amount in one register.

Issued by authority of an Order of the Kentucky Public Service
Commission dated April 21, 2020 in Case No. 2019-00471.
Issued: May 1, 2020
Effective: May 1, 2020
Issued by Amy B. Spiller, President /s/ Amy B. Spiller



Additionally, Duke is not following the Billing Paragraph (below), second to last sentence, by not giving me; a customer that generates more electricity than I draw a credit difference in kWh.

Duke Energy Kentucky, Inc.
1262 Cox Road
Erlanger, KY 41018

KY.P.S.C. Electric No. 2
Sixth Revised Sheet No. 89
Cancels and Supersedes
Fifth Revised Sheet No. 89
Page 2 of 9

METERING (Contd.)

- (2) A single standard kilowatt-hour meter capable of measuring the flow of electricity in two (2) directions and registering the amount of flow in each direction in two separate registers, one measuring the flow of electricity from the Company to the Customer and the other measuring the flow of electricity from the Customer to the Company.
- (3) If method (1) or (2) is not feasible, two standard kilowatt-hour meters may be used, one measuring the flow of electricity from the Company to the Customer and the other measuring the flow of electricity from the Customer to the Company.

In method (2) or (3), subtracting one register or meter reading from the other register or meter reading will yield the same result as if method (1) were used.

Any additional meter, meters, or distribution upgrades needed to monitor the flow in each direction shall be installed at the Customer's expense.

BILLING

The measurement of net electricity supplied by the Company and delivered to the Company shall be calculated in the following manner. The Company shall measure the difference between the amount of electricity delivered by the Company to the Customer and the amount of electricity generated by the Customer and delivered to the Company during the billing period, in accordance with one of the methods listed under "METERING". If the kWh delivered by the Company to the Customer exceeds the kWh delivered by the Customer to the Company during the billing period, the Customer shall be billed for the kWh difference. If the kWh generated by the Customer and delivered to the Company exceeds the kWh supplied by the Company to the Customer during the billing period, the Customer shall be credited in the next billing cycle for the kWh difference. Any unused credit when the Customer closes his account will be granted to the Company.

Bill charges and credits will be in accordance with the same standard tariff that would apply if the Customer were not a customer-generator. If time-of-use metering is used, the electricity fed back to the electric grid by the Customer shall be net-metered and accounted for at the specific time it is fed back to the electric grid in accordance with the time-of-use billing agreement currently in place.

Net metering credits are not transferable between customers or locations.

Complaint VIII

That if Duke's new billing practices are allowed to continue they adversely affect the breakeven pay off formula for my investment in solar energy. Duke extends my breakeven point further into the future by lowering the value of the energy my system feeds into the grid. If this is occurring to similarly situated customers it could affect

whether or not they deem solar worth investing in. This in turn could negatively impact Kentucky's burgeoning solar industry and jobs.

Complaint IX

That Duke Energy Kentucky would not respond to my emails. (EXHIBIT 8) The letter from PSC dated July 6, 2021 that the PSC sent to me contains the first and only response from Duke that I have seen. Duke did not send the response contained in that letter to my home address.

Duke supervisors/managers will not return phone calls. I called multiple times. I could only talk to the very nice, front line worker taking my call; unfortunately these workers could not resolve my issues. These hard workers assured me that a supervisor would call me back to address my issues or respond to my email within 10 business days. I received neither a phone call nor an email response.

WHEREFORE, the Complainant asks for the following remedies and relief:

1. That the Commission will be an advocate on my behalf as this challenge meets an army of Duke's professional lawyers.
2. An Order from the Commission requiring Duke to abide by its own tariffs, riders and KRS to give me, an eligible customer-generator, the proper one-to-one (1:1) kilowatt-hour denominated energy credit provided for electricity fed back to the grid and that my bill reflect this as when the simple, bi-directional meter was

used. And that the Commission monitors and enforces this return to previous policy.

3. An Order from the Commission prohibiting Duke from charging DSM and the Electric Fuel Adjustment tariff on energy used by me when my kWh credit is equal to or greater than what I have used.
4. An Order from the Commission prohibiting Duke from charging ESM on theoretical or uncollected revenue. That ESM be reflective of actual electric charge revenue collected, not on an electric charge before proper kWh credits are given.
5. An Order from the Commission requiring Duke to show on my bill the amount of energy delivered to Duke by my PV system in kWh, not a "Net Metering Adjustment" in dollars.
6. An Order from the Commission requiring Duke to refund to me all monies, plus interest, from the improper application of the one-to-one (1:1) kilowatt-hour denominated energy credit for all months that it has occurred. These returned monies are to include: DSM, ESM, Electric fuel adjustment and all applicable fees, tariffs, charges and interest, etc. AND that the Commission audits the return of these funds requiring Duke to have a "look back" audit of my bills since the new meter was installed.
7. An Order from the Commission requiring Duke to show on my bill the amount of accumulated unused energy credit in kWh.
8. That if I do not prevail with the Commission in the above remedies and reliefs numbered 2, 3 & 4, I respectfully request an Order from the Commission giving

me the option to reinstall an older bi-directional meter without installation charges or continuing monthly meter fees. (I was told by the AMI meter installer that to keep the old style meter I would have to pay a monthly fee.)

9. That the “electrical history usage” graph be restored to future bills.
10. I respectfully request that the Commission open any investigation(s) that the Commission deems appropriate or advisable to determine if Duke is engaging in activity that adversely affects other similarly situated customers.
11. I respectfully request that the Commission open any investigation(s) they deem appropriate to determine whether Duke should be penalized per applicable laws for subverting the rate making process and pushing beyond their statutory limits, causing a ratepayer to have to police Duke’s actions.
12. That the Commission audit Duke’s response times to customer complaints.
13. I respectfully request all other relief that I am entitled.

Dated at Fort Mitchell, Kentucky, this 9th day of August, 2021

A handwritten signature in black ink, appearing to read "Joseph J. Ora", written over a horizontal line.

9 August 2021.

ATTACHMENT 1

KRS 278.465 through 278.466

278.465 Definitions for KRS 278.465 to 278.468.

As used in KRS 278.465 to 278.468:

- (1) "Eligible customer-generator" means a customer of a retail electric supplier who owns and operates an electric generating facility that is located on the customer's premises, for the primary purpose of supplying all or part of the customer's own electricity requirements;
- (2) "Eligible electric generating facility" means an electric generating facility that:
 - (a) Is connected in parallel with the electric distribution system;
 - (b) Generates electricity using:
 1. Solar energy;
 2. Wind energy;
 3. Biomass or biogas energy; or
 4. Hydro energy; and
 - (c) Has a rated capacity of not greater than forty-five (45) kilowatts;
- (3) "Kilowatt hour" means a measure of electricity defined as a unit of work of energy, measured as one (1) kilowatt of power expended for one (1) hour; and
- (4) "Net metering" means the difference between the:
 - (a) Dollar value of all electricity generated by an eligible customer-generator that is fed back to the electric grid over a billing period and priced as prescribed in KRS 278.466; and
 - (b) Dollar value of all electricity consumed by the eligible customer-generator over the same billing period and priced using the applicable tariff of the retail electric supplier.

Effective: January 1, 2020

History: Amended 2019 Ky. Acts ch. 101, sec. 1, effective January 1, 2020. -- Amended 2008 Ky. Acts ch. 138, sec. 1, effective July 15, 2008. -- Created 2004 Ky. Acts ch. 193, sec. 1, effective July 13, 2004.

278.466 Availability of net metering -- Type, expense, and installation of meter -- Compensation to eligible customer-generators for electricity fed back into grid -- Commission to set compensation rate -- Excess generation credits nonrefundable -- Twenty-five year cap on preexisting net metering tariff provisions -- Safety and power quality standards -- Transferability of installation at same premises.

- (1) Each retail electric supplier shall make net metering available to any eligible customer-generator that the supplier currently serves or solicits for service. If the cumulative generating capacity of net metering systems reaches one percent (1%) of a supplier's single hour peak load during a calendar year, the supplier shall have no further obligation to offer net metering to any new customer-generator at any subsequent time.
- (2) Each retail electric supplier serving a customer with eligible electric generating facilities shall use a standard kilowatt-hour meter capable of registering the flow of electricity in two (2) directions. Any additional meter, meters, or distribution upgrades needed to monitor the flow in each direction shall be installed at the customer-generator's expense. If additional meters are installed, the net metering calculation shall yield the same result as when a single meter is used.
- (3) A retail electric supplier serving an eligible customer-generator shall compensate that customer for all electricity produced by the customer's eligible electric generating facility that flows to the retail electric supplier, as measured by the standard kilowatt-hour metering prescribed in subsection (2) of this section. The rate to be used for such compensation shall be set by the commission using the ratemaking processes under this chapter during a proceeding initiated by a retail electric supplier or generation and transmission cooperative on behalf of one (1) or more retail electric suppliers.
- (4) Each billing period, compensation provided to an eligible customer-generator shall be in the form of a dollar-denominated bill credit. If an eligible customer-generator's bill credit exceeds the amount to be billed to the customer in a billing period, the amount of the credit in excess of the customer's bill shall carry forward to the customer's next bill. Excess bill credits shall not be transferable between customers or premises. If an eligible customer-generator closes his or her account, no cash refund for accumulated credits shall be paid.
- (5) Using the ratemaking process provided by this chapter, each retail electric supplier shall be entitled to implement rates to recover from its eligible customer-generators all costs necessary to serve its eligible customer-generators, including but not limited to fixed and demand-based costs, without regard for the rate structure for customers who are not eligible customer-generators.
- (6) For an eligible electric generating facility in service prior to the effective date of the initial net metering order by the commission in accordance with subsection (3) of this section, the net metering tariff provisions in place when the eligible customer-generator began taking net metering service, including the one-to-one (1:1) kilowatt-hour denominated energy credit provided for electricity fed into the grid, shall remain in effect at those premises for a twenty-five (25) year period, regardless

of whether the premises are sold or conveyed during that twenty-five (25) year period. For any eligible customer-generator to whom this subsection applies, each net metering contract or tariff under which the customer takes service shall be identical, with respect to energy rates, rate structure, and monthly charges, to the contract or tariff to which the same customer would be assigned if the customer were not an eligible customer-generator.

- (7) Electric generating systems and interconnecting equipment used by eligible customer-generators shall meet all applicable safety and power quality standards established by the National Electrical Code (NEC), Institute of Electrical and Electronics Engineers (IEEE), and accredited testing laboratories such as Underwriters Laboratories.
- (8) An eligible customer-generator installation is transferable to other persons at the same premises upon notification to the retail electric supplier and verification that the installation is in compliance with the applicable safety and power quality standards in KRS 278.467 and in subsection (7) of this section.
- (9) Any upgrade of the interconnection between the retail electric supplier and the customer-generator that is required by commission-approved tariffs for the purpose of allowing net metering shall be made at the expense of the customer-generator.

Effective: January 1, 2020

History: Amended 2019 Ky. Acts ch. 101, sec. 2, effective January 1, 2020. -- Amended 2008 Ky. Acts ch. 138, sec. 2, effective July 15, 2008. -- Created 2004 Ky. Acts ch. 193, sec. 2, effective July 13, 2004.

EXHIBIT ONE
DUKE BILL 1/28/2021



duke-energy.com
1.800.544.6900

Your Energy Bill

page 1 of 4

Service address
JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Bill date Jan 28, 2021
For service Dec 21 - Jan 23
33 days

Account number [REDACTED]

Billing summary

Previous amount due	\$40.12
Payment received Jan 20	-40.12
Current Gas Charges	25.14
Current Electric Charges	13.73
Taxes	2.36
Total amount due Feb 19	\$41.23



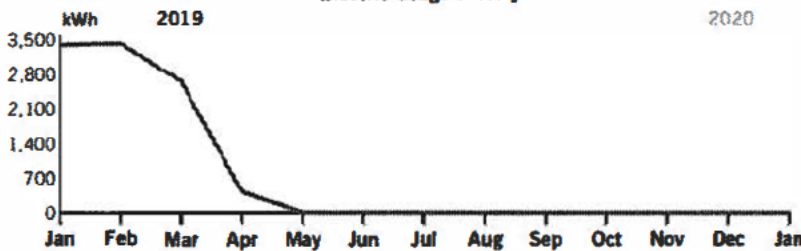
Thank you for your payment.

Cold temperatures mean higher bills because your heating system uses more energy to maintain the same temperature. Keeping your thermostat on the lowest comfortable setting means less work for your system and more savings for you.

Net Metering Applicable.

Your usage snapshot

Electric usage history



	Current Month	Jan 2019	12-Month Usage	Avg Monthly Usage
Electric (kWh)	0	3,355	6,434	536

12-month usage based on most recent history

Mail your payment at least 7 days before the due date or pay instantly at duke-energy.com/billing. Late payments are subject to a 5% late charge.

Please return this portion with your payment. Thank you for your business.



Duke Energy Return Mail
PO Box 1090
Charlotte, NC 28201-1090

Account number [REDACTED]

Amount due

\$41.23
by Feb 19

After Feb 19, the amount due will increase to \$43.17.

\$ _____ \$ _____
Add here, to help others with a contribution to WinterCare. **Amount enclosed**

JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Duke Energy Payment Processing
PO Box 1326
Charlotte, NC 28201 1326





We're here for you

Report an emergency

Electric/Gas outage		duke-energy.com/outages
	Electric	800.543.5599
	Gas	800.634.4300

Convenient ways to pay your bill

Online	duke-energy.com/billing
Automatically from your bank account	duke-energy.com/autodraft
Speedpay (fee applies)	duke-energy.com/pay-now 800.544.6900
By mail payable to Duke Energy	P.O. Box 1326 Charlotte, NC 28201-1326
In person	duke-energy.com/location

Help managing your account (not applicable for all customers)

Register for free paperless billing	duke-energy.com/paperless
Home	duke-energy.com/manage-home
Business	duke-energy.com/manage-bus

Correspond with Duke Energy

P.O. Box 1326
Charlotte, NC 28201

Contact Duke Energy

Online	duke-energy.com
Call (Monday - Friday, 7 a.m. to 7 p.m.)	800.544.6900
For hearing impaired TDD/TTY	800.648.6056 or 711

Request the condensed or detailed bill format

Call (7a.m. to 7 p.m.) 800.544.6900

Important to know

Your next meter reading: Feb 22

Please be sure we can safely access your meter for actual readings. Don't worry if your digital meter flashes eights from time to time. That's a normal part of the energy measuring process.

Your electric service may be disconnected if your payment is past due

If payment for your electric service is past due, we may begin disconnection procedures. If your service is disconnected because of a missed payment, you must pay your past-due balance in full, plus a reconnection fee, before your service will be reconnected. The reconnection fee is \$5.88 for electric service that may be reconnected remotely, \$60 for electric service that is not eligible to be reconnected remotely, \$125 for electric service that was disconnected at the pole and \$75 for gas service. There is an additional fee of \$40 to reconnect electric service after normal business hours if not eligible to be reconnected remotely. A security deposit may also be required.

Electric service does not depend on payment for other products or services

Non payment for non-regulated products or services (such as surge protection or equipment service contracts) may result in removal from the program but will not result in disconnection of electric service.

When you pay by check

We may process the payment as a regular check or convert it into a one-time electronic check payment.

Para nuestros clientes que hablan Español

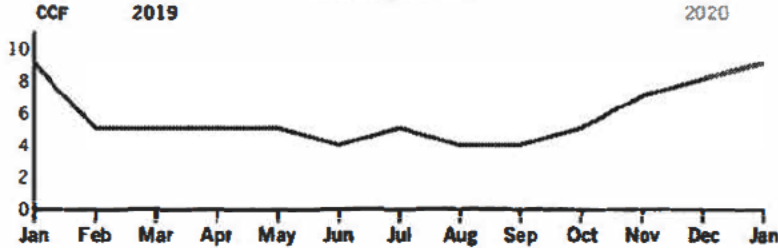
Representantes bilingües están disponibles para asistirle de lunes a viernes de 7 a.m. a 7 p.m. Para obtener más información o reportar problemas con su servicio eléctrico, favor de llamar al 800.544.6900.



Account number [REDACTED]

Your usage snapshot - continued

Gas usage history



	Current Month	Jan 2019	12-Month Usage	Avg Monthly Usage
Gas (CCF)	9	9	66	6

12-month usage based on most recent history

Current electric usage for meter number 331452121

Actual reading on Jan 22	0
Previous reading on Dec 21	- 0
Energy used	0 kWh
kWh Usage	0



A kilowatt-hour (kWh) is a measure of the energy used by a 1,000-watt appliance in one hour. A 10-watt LED lightbulb would take 100 hours to use 1 kWh.

Current gas usage for meter number 001120452

Actual reading on Jan 23	204
Previous reading on Dec 21	- 195
Gas used	9 CCF



One centum cubic foot (CCF) is the amount of gas in a 100-cubic-foot space. If you have a standard oven, it would take about 20 hours to use 1 CCF of gas.

Billing details - Electric

Meter - 331452121	
Rate RS - Residential Service	
Customer Charge	\$12.90
Environmental Surcharge Mechanism Rider (ESM)	0.83
Total Charges	\$13.73

Your current rate is Residential Service (RS).

For a complete listing of all Kentucky rates and riders, visit duke-energy.com/rates

Billing details - Gas

Meter - 1120452	
Rate RS - Residential Service	
Customer Charge	\$16.80
Gas Delivery Charge	
9 CCF @ \$0.4692	4.22
Gas DSM Rider	
9 CCF @ \$0.030735	0.28

Your current rate is Residential Service (RS).



duke-energy.com
1.800.544.6900

Account [REDACTED]

Billing details - Gas continued

Gas Cost Recovery	
9 CCF @ \$0.3868	3.48
Gas WNA Rider	
9 CCF @ \$0.040533	0.36
Total Charges	\$25.14

Billing details - Taxes

Franchise Fee-Fort Mitchell	\$1.16
Rate Incr for School Tax	1.20
Total Taxes	\$2.36

EXHIBIT 2
AMI LETTER FROM DUKE

<Date TBD>

<Recipient's Full Name>
<Recipient's Address>
<City, State, Zip>

New smart meter with more capabilities.

Dear <First Name, Last Name>,

We are upgrading your net meter with better, two-way communication. Currently your meter technology only allows your meter to roll forward or roll backward, but the new meter will reflect two distinct line items on your bill:

1. Your current electric charges in each billing period (see line A)
2. Your net metering adjustment in each billing period expressed as a bill credit (see line B)

Your account, energy rates and other terms will all remain the same. Once your new meter is installed, your future bills will more clearly illustrate your energy consumption, production and any bill credit applied to your account.

We hope you enjoy this new feature and the transparency into your monthly energy use. If you have any questions, please call us at 800.521.2232.

Sincerely,
Duke Energy

An example of your future bill.

Billing summary	
Present amount due	\$40.31
Payment received for 10	-49.22
Current Electric Charge	44.12
Net Metering Adj	-52.17
Taxes	1.14
Total amount due Aug 11	\$15.28

EXHIBIT 3

DUKE BILL 2/24/2021



duke-energy.com
1.800.544.6900

Your Energy Bill

Service address
JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Bill date Feb 24, 2021
For service Jan 22 - Feb 22
31 days

Account number [REDACTED]

Billing summary

Previous amount due	\$41.23
Payment received Feb 19	-41.23
Current Gas Charges	22.38
Current Electric Charges	14.37
Net Metering Adj	295.42
Net Metering Adj	-295.42
Taxes	2.23
Total amount due Mar 18	\$38.98



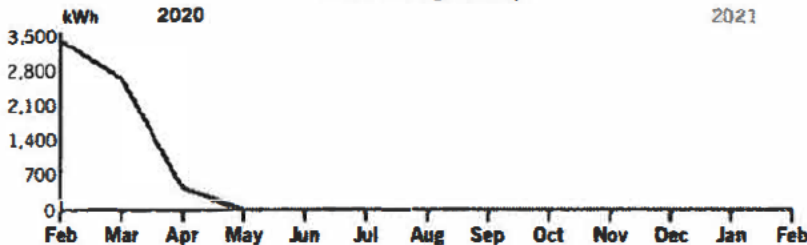
Thank you for your payment.

Duke Energy does not maintain customers' natural gas piping after or downstream of the meter. You should maintain such piping by periodically inspecting for leaks. If the piping is metal, you should also check for signs of corrosion. You should repair such piping if leaks or corrosion are discovered. For assistance locating, inspecting or repairing buried piping, please contact a licensed heating/plumbing contractor. You should always call 811 prior to digging. Once your lines are marked, always dig by hand if digging near natural gas piping.

Net Metering Applicable.

Your usage snapshot

Electric usage history



	Current Month	Feb 2020	12 Month Usage	Avg Monthly Usage
Electric (kWh)	0	3,386	3,048	254

12 month usage based on most recent history

Mail your payment at least 7 days before the due date or pay instantly at duke-energy.com/billing. Late payments are subject to a 5% late charge.

Please return this portion with your payment. Thank you for your business



Duke Energy Return Mail
PO Box 1090
Charlotte, NC 28201-1090

Account number [REDACTED]

Amount due

\$38.98
by Mar 18

After Mar 18, the amount due will increase to \$40.93.

\$ _____ \$ _____
Add here, to help others with a contribution to WinterCare. **Amount enclosed**

JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Duke Energy Payment Processing
PO Box 1326
Charlotte, NC 28201-1326



We're here for you

Report an emergency

Electric/Gas outage		duke-energy.com/outages
	Electric	800.543.5599
	Gas	800.634.4300

Convenient ways to pay your bill

Online	duke-energy.com/billing
Automatically from your bank account	duke-energy.com/autodraft
Speedpay (fee applies)	duke-energy.com/pay-now 800.544.6900
By mail payable to Duke Energy	P.O. Box 1326 Charlotte, NC 28201-1326
In person	duke-energy.com/location

Help managing your account (not applicable for all customers)

Register for free paperless billing	duke-energy.com/paperless
Home	duke-energy.com/manage-home
Business	duke-energy.com/manage-bus

Correspond with Duke Energy

P.O. Box 1326
Charlotte, NC 28201

Contact Duke Energy

Online	duke-energy.com
Call (Monday - Friday, 7 a.m. to 7 p.m.)	800.544.6900
For hearing impaired TDD/TTY	800.648.6056 or 711

Request the condensed or detailed bill format

Call (7a.m. to 7 p.m.) 800.544.6900

Important to know

Your next meter reading: Mar 23

Please be sure we can safely access your meter for actual readings. Don't worry if your digital meter flashes eights from time to time. That's a normal part of the energy measuring process.

Your electric service may be disconnected if your payment is past due

If payment for your electric service is past due, we may begin disconnection procedures. If your service is disconnected because of a missed payment, you must pay your past-due balance in full, plus a reconnection fee, before your service will be reconnected. The reconnection fee is \$5.88 for electric service that may be reconnected remotely, \$60 for electric service that is not eligible to be reconnected remotely, \$125 for electric service that was disconnected at the pole and \$75 for gas service. There is an additional fee of \$40 to reconnect electric service after normal business hours if not eligible to be reconnected remotely. A security deposit may also be required.

Electric service does not depend on payment for other products or services

Non-payment for non-regulated products or services (such as surge protection or equipment service contracts) may result in removal from the program but will not result in disconnection of electric service.

When you pay by check

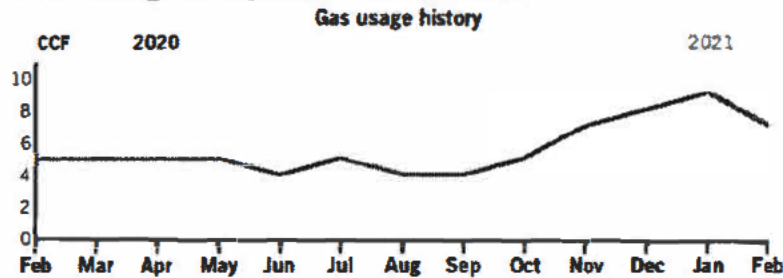
We may process the payment as a regular check or convert it into a one-time electronic check payment.

Para nuestros clientes que hablan Español

Representantes bilingües están disponibles para asistirle de lunes a viernes de 7 a.m. - 7 p.m. Para obtener más información o reportar problemas con su servicio eléctrico, favor de llamar al 800.544.6900.



Your usage snapshot - continued



	Current Month	Feb 2020	12-Month Usage	Avg Monthly Usage
Gas (CCF)	7	5	68	6

12 month usage based on most recent history

Current electric usage for meter number 331452121

Actual reading on Feb 22	0
Previous reading on Jan 22	- 0
Energy used	0 kWh
kWh Usage	0



A kilowatt-hour (kWh) is a measure of the energy used by a 1,000-watt appliance in one hour. A 10 watt LED lightbulb would take 100 hours to use 1 kWh.

Current gas usage for meter number 001120452

Actual reading on Feb 22	211
Previous reading on Jan 23	- 204
Gas used	7 CCF



One centum cubic foot (CCF) is the amount of gas in a 100-cubic-foot space. If you have a standard oven, it would take about 20 hours to use 1 CCF of gas.

Billing details - Electric

Meter - 331452121

Rate RS - Residential Service	
Customer Charge	\$12.90
Environmental Surcharge Mechanism Rider (ESM)	1.47
Total Charges	\$14.37

Your current rate is Residential Service (RS).

For a complete listing of all Kentucky rates and riders, visit duke-energy.com/rates

Billing details - Gas

Meter - 1120452

Rate RS - Residential Service	
Customer Charge	\$16.80
Gas Delivery Charge	
7 CCF @ \$0.4692	3.28
Gas DSM Rider	
7 CCF @ \$0.030735	0.22

Your current rate is Residential Service (RS).



duke-energy.com
1.800.544.6900

Account number [REDACTED]

Billing details - Gas continued

Gas Cost Recovery	
7 CCF @ \$0.3868	2.71
Gas WNA Rider	
7 CCF @ \$-0.090381	-0.63
Total Charges	\$22.38

Billing details - Taxes

Franchise Fee-Fort Mitchell	\$1.10
Rate Incr for School Tax	1.13
Total Taxes	\$2.23

EXHIBIT 4
DUKE BILL 4/27/2021



duke-energy.com
1.800.544.6900

Your Energy Bill

Service address JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Bill date Apr 27, 2021
For service Mar 23 - Apr 22
30 days

Account number [REDACTED]

Billing summary

Previous amount due	\$41.79
Payment received Apr 27	-41.79
Current Gas Charges	21.15
Current Electric Charges	47.37
Net Metering Adj	-33.41
Tax Adjustment	-1.03
Tax Adjustment	-1.00
Taxes	4.16
Total amount due May 19	\$37.24



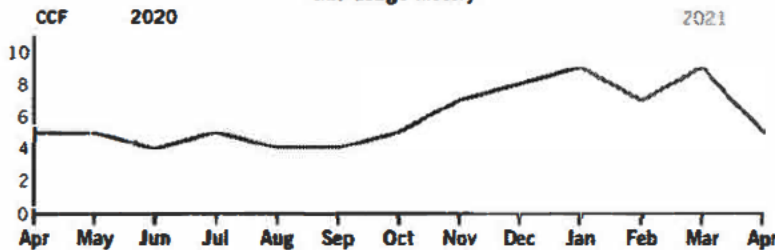
Thank you for your payment.

Know what's below. Call before you dig. Always call 811 before you dig, it's the law. Making this free call at least two full business days before you dig gets utility lines marked and helps protect you from injury and expense. Call 811 or visit kentucky811.org. Penalties may apply for not calling. Visit www.duke-energy.com/call811 for more info.

Net Metering Applicable.

Your usage snapshot

Gas usage history



	Current Month	Apr 2020	12-Month Usage	Avg Monthly Usage
Gas (CCF)	5	5	72	6

12-month usage based on most recent history

Mail your payment at least 7 days before the due date or pay instantly at duke-energy.com/billing. Late payments are subject to a 5% late charge.

Please return this portion with your payment. Thank you for your business.



Duke Energy Return Mail
PO Box 1090
Charlotte, NC 28201-1090

Account number [REDACTED]

\$37.24
by May 19

After May 19, the amount due will increase to \$39.10.

\$ _____ \$ _____
Add here, to help others with a contribution to WinterCare. **Amount enclosed**

JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Duke Energy Payment Processing
PO Box 1326
Charlotte, NC 28201-1326





We're here for you

Report an emergency

Electric/Gas outage		duke-energy.com/outages
	Electric	800.543.5599
	Gas	800.634.4300

Convenient ways to pay your bill

Online	duke-energy.com/billing
Automatically from your bank account	duke-energy.com/autodraft
Speedpay (fee applies)	duke-energy.com/pay-now 800.544.6900
By mail payable to Duke Energy	P.O. Box 1326 Charlotte, NC 28201-1326
In person	duke-energy.com/location

Help managing your account (not applicable for all customers)

Register for free paperless billing	duke-energy.com/paperless
Home	duke-energy.com/manage-home
Business	duke-energy.com/manage-bus

Correspond with Duke Energy

P.O. Box 1326
Charlotte, NC 28201

Contact Duke Energy

Online	duke-energy.com
Call (Monday - Friday, 7 a.m. to 7 p.m.)	800.544.6900
For hearing impaired TDD/TTY	800.648.6056 or 711

Request the condensed or detailed bill format

Call (7a.m. to 7 p.m.) 800.544.6900

Important to know**Your next meter reading: May 21**

Please be sure we can safely access your meter for actual readings. Don't worry if your digital meter flashes eights from time to time. That's a normal part of the energy measuring process.

Your electric service may be disconnected if your payment is past due

If payment for your electric service is past due, we may begin disconnection procedures. If your service is disconnected because of a missed payment, you must pay your past-due balance in full, plus a reconnection fee, before your service will be reconnected. The reconnection fee is \$5.88 for electric service that may be reconnected remotely, \$60 for electric service that is not eligible to be reconnected remotely, \$125 for electric service that was disconnected at the pole and \$75 for gas service. There is an additional fee of \$40 to reconnect electric service after normal business hours if not eligible to be reconnected remotely. A security deposit may also be required.

Electric service does not depend on payment for other products or services

Non payment for non-regulated products or services (such as surge protection or equipment service contracts) may result in removal from the program but will not result in disconnection of electric service.

When you pay by check

We may process the payment as a regular check or convert it into a one-time electronic check payment.

Para nuestros clientes que hablan Español

Representantes bilingües están disponibles para asistirle de lunes a viernes de 7 a.m. - 7 p.m. Para obtener más información o reportar problemas con su servicio eléctrico, favor de llamar al 800.544.6900.



Your usage snapshot - continued

Current electric usage for meter number 331452121	
Actual reading on Apr 9	0
Previous reading on Mar 23	- 0
Energy used	0 kWh
kWh Usage	0



A kilowatt-hour (kWh) is a measure of the energy used by a 1,000-watt appliance in one hour. A 10-watt LED lightbulb would take 100 hours to use 1 kWh.

Current electric usage for meter number 337388417*	
Actual reading on Apr 22	403
Previous reading on Apr 9	- 0
Energy used	403 kWh
kWh Usage	403

* Meter Charge

Current gas usage for meter number 001120452	
Actual reading on Apr 22	225
Previous reading on Mar 23	220
Gas used	5 CCF



One centum cubic foot (CCF) is the amount of gas in a 100-cubic-foot space. If you have a standard oven, it would take about 20 hours to use 1 CCF of gas.

Billing details - Electric

Meter - 331452121	
Meter - 337388417*	
Rate RS - Residential Service	
Customer Charge	\$12.90
Energy Chrg	
403 kWh @ \$0.079431	32.01
Demand Side Management Cost Recovery Program Rider (DSM)	
403 kWh @ \$-0.002863	-1.15
Off-System Sales Profit Sharing Mechanism Rider (PSM)	
403 kWh @ \$-0.001122	-0.45
Elec Fuel Adjustment	
403 kWh @ \$0.001158	0.47
Environmental Surcharge Mechanism Rider (ESM)	3.59
Total Charges	\$47.37

Your current rate is Residential Service (RS).

For a complete listing of all Kentucky rates and riders, visit duke-energy.com/rates

Billing details - Gas

Meter - 1120452	
Rate RS - Residential Service	

Your current rate is Residential Service (RS).



duke-energy.com
1.800.544.6900

Account number [REDACTED]

Billing details - Gas continued

Customer Charge	\$16.80
Gas Delivery Charge	
5 CCF @ \$0.4692	2.35
Gas DSM Rider	
5 CCF @ \$0.030735	0.15
Gas Cost Recovery	
5 CCF @ \$0.3551	1.78
Gas WNA Rider	
5 CCF @ \$0.014304	0.07
Total Charges	\$21.15

Billing details - Taxes

Franchise Fee-Fort Mitchell	\$2.05
Rate Incr for School Tax	2.11
Total Taxes	\$4.16

EXHIBIT 5
DUKE BILL 5/25/2021



duke-energy.com
1.800.544.6900

Your Energy Bill

Service address

JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Bill date May 25, 2021
For service Apr 22 - May 21
29 days

Account number [REDACTED]

Billing summary

Previous amount due	\$37.24
Payment received May 19	-37.24
Current Gas Charges	23.76
Current Electric Charges	78.55
Net Metering Adj	-64.48
Tax Adjustment	-1.99
Tax Adjustment	-1.94
Taxes	6.23
Total amount due Jun 16	\$40.13



Thank you for your payment.

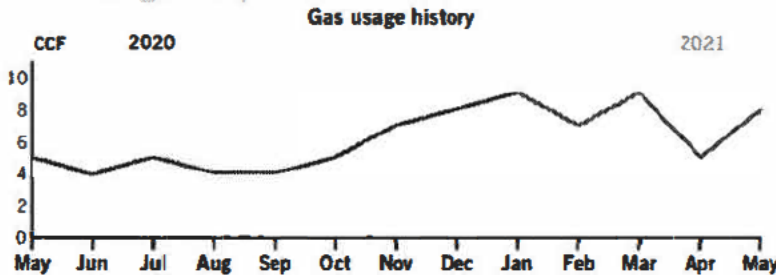
Important power line safety reminder. Stay away from power lines. Do not work near overhead lines. Always assume that downed lines are energized and dangerous. Report downed power lines to Duke Energy immediately by calling 1-800-543-5599.

Energy theft affects all of us - driving up energy costs and increasing the risk to public safety. You can help by reporting suspicious activity. Call 1-800-544-6900 or complete an energy theft form at duke-energy.com, under the customer service link.

Duke Energy does not maintain customers' natural gas piping after or downstream of the meter. You should maintain such piping by periodically inspecting for leaks. If the piping is metal, you should also check for signs of corrosion. You should repair such piping if leaks or corrosion are discovered. For assistance locating, inspecting or repairing buried piping, please contact a licensed heating/plumbing contractor. You should always call 811 prior to digging. Once your lines are marked, always dig by hand if digging near natural gas piping.

Net Metering Applicable.

Your usage snapshot



	Current Month	May 2020	12-Month Usage	Avg Monthly Usage
Gas (CCF)	8	5	75	6

12-month usage based on most recent history

Mail your payment at least 7 days before the due date or pay instantly at duke-energy.com/billing. Late payments are subject to a 5% late charge.

Please return this portion with your payment. Thank you for your business.



Duke Energy Return Mail
PO Box 1090
Charlotte, NC 28201-1090

Account number [REDACTED]

\$40.13
by Jun 16

After Jun 16, the amount due will increase to \$42.14.

\$ _____

Add here, to help others with a contribution to WinterCare.

\$ _____

Amount enclosed

JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Duke Energy Payment Processing
PO Box 1326
Charlotte, NC 28201-1326





We're here for you

Report an emergency

Electric/Gas outage		duke-energy.com/outages
	Electric	800.543.5599
	Gas	800.634.4300

Convenient ways to pay your bill

Online	duke-energy.com/billing
Automatically from your bank account	duke-energy.com/autodraft
Speedpay (fee applies)	duke-energy.com/pay-now 800.544.6900
By mail payable to Duke Energy	P.O. Box 1326 Charlotte, NC 28201-1326
In person	duke-energy.com/location

Help managing your account (not applicable for all customers)

Register for free paperless billing	duke-energy.com/paperless
Home	duke-energy.com/manage-home
Business	duke-energy.com/manage-bus

Correspond with Duke Energy

P.O. Box 1326
Charlotte, NC 28201

Contact Duke Energy

Online	duke-energy.com
Call (Monday - Friday, 7 a.m. to 7 p.m.)	800.544.6900
For hearing impaired TDD/TTY	800.648.6056 or 711

Request the condensed or detailed bill format

Call (7a.m. to 7 p.m.) 800.544.6900

Important to know

Your next meter reading: Jun 22

Please be sure we can safely access your meter for actual readings. Don't worry if your digital meter flashes eights from time to time. That's a normal part of the energy measuring process.

Your electric service may be disconnected if your payment is past due

If payment for your electric service is past due, we may begin disconnection procedures. If your service is disconnected because of a missed payment, you must pay your past due balance in full, plus a reconnection fee, before your service will be reconnected. The reconnection fee is \$5.88 for electric service that may be reconnected remotely, \$60 for electric service that is not eligible to be reconnected remotely, \$125 for electric service that was disconnected at the pole and \$75 for gas service. There is an additional fee of \$40 to reconnect electric service after normal business hours if not eligible to be reconnected remotely. A security deposit may also be required.

Electric service does not depend on payment for other products or services

Non-payment for non-regulated products or services (such as surge protection or equipment service contracts) may result in removal from the program but will not result in disconnection of electric service.

When you pay by check

We may process the payment as a regular check or convert it into a one-time electronic check payment.

Para nuestros clientes que hablan Español

Representantes bilingües están disponibles para asistirle de lunes a viernes de 7 a.m. - 7 p.m. Para obtener más información o reportar problemas con su servicio eléctrico, favor de llamar al 800.544.6900.



Your usage snapshot - continued

Current electric usage for meter number 337388417	
Actual reading on May 21	1120
Previous reading on Apr 22	- 403
<hr/>	
Energy used	717 kWh
kWh Usage	717



A kilowatt-hour (kWh) is a measure of the energy used by a 1,000-watt appliance in one hour. A 10-watt LED lightbulb would take 100 hours to use 1 kWh.

Current gas usage for meter number 001120452	
Actual reading on May 21	233
Previous reading on Apr 22	- 225
<hr/>	
Gas used	8 CCF



One centum cubic foot (CCF) is the amount of gas in a 100-cubic-foot space. If you have a standard oven, it would take about 20 hours to use 1 CCF of gas.

Billing details - Electric

Meter - 337388417	
Rate RS - Residential Service	
Customer Charge	\$12.90
Energy Chrg	
717 kWh @ \$0.079431	56.95
Demand Side Management Cost Recovery Program Rider (DSM)	
717 kWh @ \$0.002175	1.56
Off-System Sales Profit Sharing Mechanism Rider (PSM)	
717 kWh @ \$-0.001122	-0.80
Elec Fuel Adjustment	
717 kWh @ \$0.001963	1.41
Environmental Surcharge Mechanism Rider (ESM)	6.53
Total Charges	\$78.55

Your current rate is Residential Service (RS).
For a complete listing of all Kentucky rates and riders, visit duke-energy.com/rates

Billing details - Gas

Meter - 1120452	
Rate RS - Residential Service	
Customer Charge	\$16.80
Gas Delivery Charge	
8 CCF @ \$0.4692	3.75
Gas DSM Rider	
8 CCF @ \$0.045817	0.37
Gas Cost Recovery	
8 CCF @ \$0.3551	2.84

Your current rate is Residential Service (RS).



duke-energy.com
1.800.544.6900

Account number [REDACTED]

Billing details - Gas continued

Total Charges	\$23.76
----------------------	----------------

Billing details - Taxes

Franchise Fee-Fort Mitchell	\$3.07
Rate Incr for School Tax	3.16
Total Taxes	\$6.23

EXHIBIT 6

DUKE BILL 6/24/2021



duke-energy.com
1.800.544.6900

Your Energy Bill

page 1 of 4

Service address
JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Bill date Jun 24, 2021
For service May 21 - Jun 22
32 days

Account number [REDACTED]

Billing summary

Previous amount due	\$40.13
<i>Payment received Jun 16</i>	-40.13
Current Gas Charges	21.52
Current Electric Charges	89.89
Net Metering Adj	-75.93
Tax Adjustment	-2.35
Tax Adjustment	-2.28
Taxes	6.80
Total amount due Jul 16	\$37.65



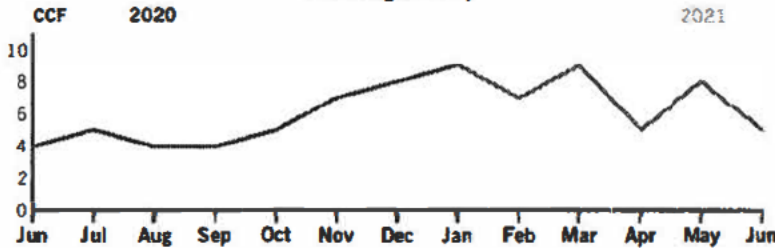
Thank you for your payment.

Know what's below. Call before you dig. Always call 811 before you dig, it's the law. Making this free call at least two full business days before you dig gets utility lines marked and helps protect you from injury and expense. Call 811 or visit kentucky811.org.

Net Metering Applicable.

Your usage snapshot

Gas usage history



	Current Month	Jun 2020	12-Month Usage	Avg Monthly Usage
Gas (CCF)	5	4	76	6

12-month usage based on most recent history

Mail your payment at least 7 days before the due date or pay instantly at duke-energy.com/billing. Late payments are subject to a 5% late charge.

Please return this portion with your payment. Thank you for your business.



Duke Energy Return Mail
PO Box 1090
Charlotte, NC 28201-1090

Account number
[REDACTED]

Amount due

\$37.65
by Jul 16

After Jul 16, the amount due will increase to \$39.53.

\$ _____ \$ _____
Add here, to help others with a contribution to WinterCare. **Amount enclosed**

JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Duke Energy Payment Processing
PO Box 1326
Charlotte, NC 28201-1326





We're here for you

Report an emergency

Electric/Gas outage		duke-energy.com/outages
	Electric	800.543.5599
	Gas	800.634.4300

Convenient ways to pay your bill

Online	duke-energy.com/billing
Automatically from your bank account	duke-energy.com/autodraft
Speedpay (fee applies)	duke-energy.com/pay-now 800.544.6900
By mail payable to Duke Energy	P.O. Box 1326 Charlotte, NC 28201-1326
In person	duke-energy.com/location

Help managing your account (not applicable for all customers)

Register for free paperless billing	duke-energy.com/paperless
Home	duke-energy.com/manage-home
Business	duke-energy.com/manage bus

Correspond with Duke Energy

P.O. Box 1326
Charlotte, NC 28201

Contact Duke Energy

Online	duke-energy.com
Call (Monday - Friday, 7 a.m. to 7 p.m.)	800.544.6900
For hearing impaired TDD/TTY	800.648.6056 or 711

Request the condensed or detailed bill format

Call (7a.m. to 7 p.m.) 800.544.6900

Important to know

Your next meter reading: Jul 22

Please be sure we can safely access your meter for actual readings. Don't worry if your digital meter flashes eights from time to time. That's a normal part of the energy measuring process.

Your electric service may be disconnected if your payment is past due

If payment for your electric service is past due, we may begin disconnection procedures. If your service is disconnected because of a missed payment, you must pay your past-due balance in full, plus a reconnection fee, before your service will be reconnected. The reconnection fee is \$5.88 for electric service that may be reconnected remotely, \$60 for electric service that is not eligible to be reconnected remotely, \$125 for electric service that was disconnected at the pole and \$75 for gas service. There is an additional fee of \$40 to reconnect electric service after normal business hours if not eligible to be reconnected remotely. A security deposit may also be required.

Electric service does not depend on payment for other products or services

Non-payment for non-regulated products or services (such as surge protection or equipment service contracts) may result in removal from the program but will not result in disconnection of electric service.

When you pay by check

We may process the payment as a regular check or convert it into a one time electronic check payment.

Para nuestros clientes que hablan Español

Representantes bilingües están disponibles para asistirle de lunes a viernes de 7 a.m. - 7 p.m. Para obtener más información o reportar problemas con su servicio eléctrico, favor de llamar al 800.544.6900.



Your usage snapshot - continued

Current electric usage for meter number 337388417	
Actual reading on Jun 22	1964
Previous reading on May 21	- 1120
Energy used	844 kWh
kWh Usage	844



A kilowatt-hour (kWh) is a measure of the energy used by a 1,000-watt appliance in one hour. A 10-watt LED lightbulb would take 100 hours to use 1 kWh.

Current gas usage for meter number 001120452	
Actual reading on Jun 22	238
Previous reading on May 21	- 233
Gas used	5 CCF



One centum cubic foot (CCF) is the amount of gas in a 100-cubic-foot space. If you have a standard oven, it would take about 20 hours to use 1 CCF of gas.

Billing details - Electric

Meter - 337388417	
Rate RS - Residential Service	
Customer Charge	\$12.90
Energy Chrg	
844 kWh @ \$0.079431	67.04
Demand Side Management Cost Recovery Program Rider (DSM)	
844 kWh @ \$0.002175	1.84
Off-System Sales Profit Sharing Mechanism Rider (PSM)	
844 kWh @ \$-0.000475	-0.40
Elec Fuel Adjustment	
844 kWh @ \$0.001965	1.66
Environmental Surcharge Mechanism Rider (ESM)	6.85
Total Charges	\$89.89

Your current rate is Residential Service (RS).

For a complete listing of all Kentucky rates and riders, visit duke-energy.com/rates

Billing details - Gas

Meter - 1120452	
Rate RS - Residential Service	
Customer Charge	\$16.80
Gas Delivery Charge	
5 CCF @ \$0.4692	2.35
Gas DSM Rider	
5 CCF @ \$0.045817	0.23
Gas Cost Recovery	
5 CCF @ \$0.4283	2.14

Your current rate is Residential Service (RS).



duke-energy.com
1.800.544.6900

Account number [REDACTED]

Billing details - Gas continued

Total Charges	\$21.52
----------------------	----------------

Billing details - Taxes

Franchise Fee-Fort Mitchell	\$3.35
Rate Incr for School Tax	3.45
Total Taxes	\$6.80

EXHIBIT 7

DUKE BILL 7/28/2021



duke-energy.com
1.800.544.6900

Your Energy Bill

page 1 of 4

Service address
JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Bill date Jul 28, 2021
For service Jun 22 - Jul 22
30 days

Account number [REDACTED]

Billing summary

Previous amount due	\$37.65
<i>Payment received Jul 16</i>	-37.65
Current Gas Charges	19.63
Current Electric Charges	94.55
Net Metering Adj	-80.49
Tax Adjustment	-2.49
Tax Adjustment	-2.42
Taxes	6.96
Total amount due Aug 19	\$35.74



Thank you for your payment.

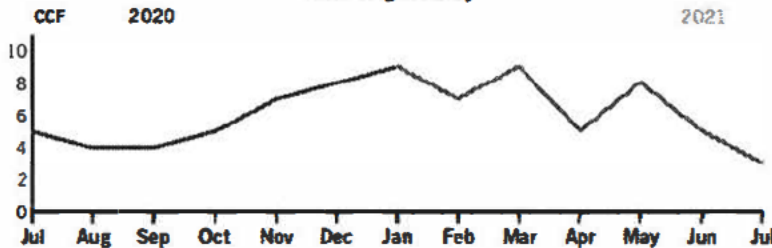
Do you or someone you know need help with energy bills or other essentials as a result of the pandemic? Help is available through new and existing federal assistance programs for those that qualify. Visit 211.org or dial 2-1-1 to get started.

Summer weather can mean higher temperatures and higher energy usage. Get tons of ideas to help you cool down your summer energy bill at duke-energy.com/SummerHeat.

Net Metering Applicable.

Your usage snapshot

Gas usage history



	Current Month	Jul 2020	12-Month Usage	Avg Monthly Usage
Gas (CCF)	3	5	74	6

12-month usage based on most recent history

Mail your payment at least 7 days before the due date or pay instantly at duke-energy.com/billing. Late payments are subject to a 5% late charge.

Please return this portion with your payment. Thank you for your business.



Duke Energy Return Mail
PO Box 1090
Charlotte, NC 28201-1090



\$35.74
by Aug 19

After Aug 19, the amount due will increase to \$37.53.

\$ _____
Add here, to help others with a contribution to WinterCare.

\$ _____
Amount enclosed

JOSEPH J OKA
42 ROSS
FORT MITCHELL KY 41017

Duke Energy Payment Processing
PO Box 1326
Charlotte, NC 28201-1326





We're here for you

Report an emergency

Electric/Gas outage		duke-energy.com/outages
	Electric	800.543.5599
	Gas	800.634.4300

Convenient ways to pay your bill

Online	duke-energy.com/billing
Automatically from your bank account	duke-energy.com/autodraft
Speedpay (fee applies)	duke-energy.com/pay-now 800.544.6900
By mail payable to Duke Energy	P.O. Box 1326 Charlotte, NC 28201-1326
In person	duke-energy.com/location

Help managing your account (not applicable for all customers)

Register for free paperless billing	duke-energy.com/paperless
Home	duke-energy.com/manage-home
Business	duke-energy.com/manage-bus

Correspond with Duke Energy

P.O. Box 1326
Charlotte, NC 28201

Contact Duke Energy

Online	duke-energy.com
Call (Monday - Friday, 7 a.m. to 7 p.m.)	800.544.6900
For hearing impaired TDD/TTY	800.648.6056 or 711
International	1.407.629.1010

Request the condensed or detailed bill format

Call (7a.m. to 7 p.m.) 800.544.6900

Important to know

Your next meter reading: Aug 20

Please be sure we can safely access your meter for actual readings. Don't worry if your digital meter flashes eight times from time to time. That's a normal part of the energy measuring process.

Your electric service may be disconnected if your payment is past due

If payment for your electric service is past due, we may begin disconnection procedures. If your service is disconnected because of a missed payment, you must pay your past-due balance in full, plus a reconnection fee, before your service will be reconnected. The reconnection fee is \$5.88 for electric service that may be reconnected remotely, \$60 for electric service that is not eligible to be reconnected remotely, \$125 for electric service that was disconnected at the pole and \$75 for gas service. There is an additional fee of \$40 to reconnect electric service after normal business hours if not eligible to be reconnected remotely. A security deposit may also be required.

Electric service does not depend on payment for other products or services

Non payment for non-regulated products or services (such as surge protection or equipment service contracts) may result in removal from the program but will not result in disconnection of electric service.

When you pay by check

We may process the payment as a regular check or convert it into a one-time electronic check payment.

Para nuestros clientes que hablan Español

Representantes bilingües están disponibles para asistirle de lunes a viernes de 7 a.m. - 7 p.m. Para obtener más información o reportar problemas con su servicio eléctrico, favor de llamar al 800.544.6900.



Your usage snapshot - continued

Current electric usage for meter number 337388417	
Actual reading on Jul 22	2839
Previous reading on Jun 22	- 1964
Energy used	875 kWh
kWh Usage	875



A kilowatt-hour (kWh) is a measure of the energy used by a 1,000-watt appliance in one hour. A 10-watt LED lightbulb would take 100 hours to use 1 kWh.

Current gas usage for meter number 001120452	
Actual reading on Jul 22	241
Previous reading on Jun 22	- 238
Gas used	3 CCF



One centum cubic foot (CCF) is the amount of gas in a 100-cubic-foot space. If you have a standard oven, it would take about 20 hours to use 1 CCF of gas.

Billing details - Electric

Meter - 337388417	
Rate RS - Residential Service	
Customer Charge	\$12.90
Energy Chrg	
875 kWh @ \$0.079431	69.50
Demand Side Management Cost Recovery Program Rider (DSM)	
875 kWh @ \$0.002175	1.90
Off-System Sales Profit Sharing Mechanism Rider (PSM)	
875 kWh @ \$-0.000475	-0.42
Elec Fuel Adjustment	
875 kWh @ \$0.003264	2.86
Environmental Surcharge Mechanism Rider (ESM)	7.81
Total Charges	\$94.55

Your current rate is Residential Service (RS).

For a complete listing of all Kentucky rates and riders, visit duke-energy.com/rates

Billing details - Gas

Meter - 1120452	
Rate RS - Residential Service	
Customer Charge	\$16.80
Gas Delivery Charge	
3 CCF @ \$0.4692	1.41
Gas DSM Rider	
3 CCF @ \$0.045817	0.14
Gas Cost Recovery	
3 CCF @ \$0.4283	1.28

Your current rate is Residential Service (RS).



duke-energy.com
1.800.544.6900

Account number [REDACTED]

Billing details - Gas continued

Total Charges	\$19.63
----------------------	----------------

Billing details - Taxes

Franchise Fee-Fort Mitchell	\$3.43
Rate Incr for School Tax	3.53
Total Taxes	\$6.96

EXHIBIT 8
LETTER FROM PSC 7/6/2021



Andy Beshear
Governor

Rebecca W. Goodman
Secretary
Energy and Environment Cabinet

Commonwealth of Kentucky
Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, Kentucky 40602-0615
Telephone: (502) 564-3940
Fax: (502) 564-3460
psc.ky.gov

Michael J. Schmitt
Chairman

Kent A. Chandler
Vice Chairman

Talina R. Mathews
Commissioner

July 6, 2021

Joseph Oka
42 Ross Ave.
Fort Mitchell, KY 41017

Receipt of Letter regarding Duke Energy

Dear Mr. Oka:

The Kentucky Public Service Commission is in receipt of your correspondence regarding the new billing under the new "smart" meter. In reviewing the information provided it was found that the Consumer Service branch did have an informal complaint regarding the same matter. Duke responded to the Consumer Service branch with the following response on May 27, 2021:

RE: *Joseph Oka*
42 Ross
Fort Mitchell, KY, 41017

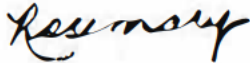
I reviewed the above address for Joseph Oka. The gas and electric service has been in his name at this location since 2/7/2008. I forwarded Mr. Oka's comments to our Net Metering Specialists, which they provided the following information:

Just like other jurisdictions, currently the Midwest has been going through meter updates to AMI meters. With these change outs, there has been an update to the bill where it does show a bit different in the format, but the customer is still receiving credits for excess generation that is sent back to the grid. After reviewing Mr. Oka's account, the billing is accurate. Duke Energy did transfer his carry over credits from the Bi-Directional to the MDM account, which was -3,029 kWh. When a customer is a KY Bi-Directional Net Metering Customer, Duke Energy only gives the KW credits. When the MDM Meters, Duke Energy only credits the customer up to what we delivered to them. So for Mr. Oka's April amount, Duke Energy delivered 403 kWh, and we credited 403 kWh at \$33.41 + \$1.03 Beechwood School Tax + \$1.00 Fort Mitchell Franchise Fee

totaling \$35.44. So for April, with his credits, Mr. Oka paid \$11.93 for having service with us. The rest of it was credit. Following response with Duke to contact you as well.

The correspondence has been reviewed by the Legal Department and feel the next step would be for this to become a formal complaint. There are forms that would need to be filled out by you and returned to the PSC, so the process can begin, those forms are included in this letter. Since the PSC already has the correspondence it will not be necessary to send again. The return address is Kentucky Public Service Commission, 211 Sower Blvd., Frankfort, KY 40601. If you have any questions please feel free to contact me at 502-782-2576.

Sincerely,



Rosemary Tutt
Kentucky Public Service Commission
Consumer Service Branch Manager
502-782-2576

EXHIBIT 9

DUKE NET METER RIDER PAGES 1 & 2 OF 9

RIDER NM
NET METERING RIDER

AVAILABILITY

Net Metering is available to eligible customer-generators in the Company's service territory, upon request, and on a first-come, first-served basis up to a cumulative capacity of 1% of the Company's single hour peak load in Kentucky during the previous year. If the cumulative generating capacity of net metering systems reaches one percent (1%) of the Company's single hour peak load during the previous year, upon Commission approval, the Company's obligation to offer net metering to a new customer-generator may be limited. An eligible customer-generator shall mean a retail electric customer of the Company with a generating facility that:

- (1) Generates electricity using solar energy, wind energy, biomass or biogas energy, or hydro energy;
- (2) Has a rated capacity of not greater than fortyfive (45) kilowatts;
- (3) Is located on the customer's premises;
- (4) Is owned and operated by the customer;
- (5) Is connected in parallel with the Company's electric distribution system; and
- (6) Has the primary purpose of supplying all or part of the customer's own electricity requirements.

At its sole discretion, the Company may provide Net Metering to other customer-generators not meeting all the conditions listed above on a case-by-case basis.

The term "Customer" hereinafter shall refer to any customer requesting or receiving Net Metering services under this tariff.

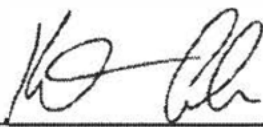
METERING

The Company shall provide net metering services, without any cost to the Customer for metering equipment, through a standard kilowatt-hour metering system capable of measuring the flow of electricity in two (2) directions. This provision does not relieve Customer of his or her responsibility to pay metering costs embedded in the utility's Commission-approved base rates.

The standard kilo-watt-hour metering system shall use one of the following methods, as determined solely by the Company:

- (1) A single standard kilowatt-hour meter capable of measuring the flow of electricity in two (2) directions and registering the net amount in one register.

Issued by authority of an Order of the Kentucky Public Service
Commission dated April 27, 2020 in Case No. 2019-00271.
Issued: May 1, 2020
Effective: May 1, 2020
Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KENTUCKY PUBLIC SERVICE COMMISSION
Kent A. Chandler Executive Director

EFFECTIVE 5/1/2020 PURSUANT TO 807 KAR 5.011 SECTION 9(1)

METERING (Contd.)

- (2) A single standard kilowatt-hour meter capable of measuring the flow of electricity in two (2) directions and registering the amount of flow in each direction in two separate registers, one measuring the flow of electricity from the Company to the Customer and the other measuring the flow of electricity from the Customer to the Company.
- (3) If method (1) or (2) is not feasible, two standard kilowatt-hour meters may be used, one measuring the flow of electricity from the Company to the Customer and the other measuring the flow of electricity from the Customer to the Company.

In method (2) or (3), subtracting one register or meter reading from the other register or meter reading will yield the same result as if method (1) were used.

Any additional meter, meters, or distribution upgrades needed to monitor the flow in each direction shall be installed at the Customer's expense.

BILLING

The measurement of net electricity supplied by the Company and delivered to the Company shall be calculated in the following manner. The Company shall measure the difference between the amount of electricity delivered by the Company to the Customer and the amount of electricity generated by the Customer and delivered to the Company during the billing period, in accordance with one of the methods listed under "METERING". If the kWh delivered by the Company to the Customer exceeds the kWh delivered by the Customer to the Company during the billing period, the Customer shall be billed for the kWh difference. If the kWh generated by the Customer and delivered to the Company exceeds the kWh supplied by the Company to the Customer during the billing period, the Customer shall be credited in the next billing cycle for the kWh difference. Any unused credit when the Customer closes his account will be granted to the Company.

Bill charges and credits will be in accordance with the same standard tariff that would apply if the Customer were not a customer-generator. If time-of-use metering is used, the electricity fed back to the electric grid by the Customer shall be net-metered and accounted for at the specific time it is fed back to the electric grid in accordance with the time-of-use billing agreement currently in place.

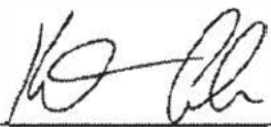
Net metering credits are not transferable between customers or locations.

APPLICATION AND APPROVAL PROCESS

The Customer shall submit an Application for Interconnection and Net Metering ("Application") and receive approval from the Company prior to connecting the generator facility to the Company's system.

Applications will be submitted by the Customer and reviewed and processed by the Company according to either Level 1 or Level 2 processes defined below.

Issued by authority of an Order of the Kentucky Public Service Commission dated April 27, 2020 in Case No. 2019-00271.
Issued: May 1, 2020
Effective: May 1, 2020
Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KENTUCKY PUBLIC SERVICE COMMISSION
Kent A. Chandler Executive Director

EFFECTIVE 5/1/2020 PURSUANT TO 807 KAR 6 011 SECTION 9 (1)

Duke Energy Kentucky, Inc.
1262 Cox Road
Erlanger, KY 41018

KY.P.S.C. Electric No. 2
Sixth Revised Sheet No. 89
Cancels and Supersedes
Fifth Revised Sheet No. 89
Page 3 of 9

APPLICATION AND APPROVAL PROCESS (Contd.)

The Company may reject an Application for violations of any code, standard, or regulation related to reliability or safety; however, the Company will work with the Customer to resolve those issues to the extent practicable.

Customers may contact the Company to check on status of an Application or with questions prior to submitting an Application. Company contact information can be found on the Application form.

Application forms along with instructions on how to submit an application are available on the Company's website.

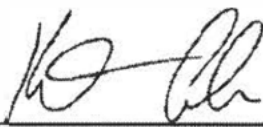
LEVEL 1

A Level 1 Application shall be used if the generating facility is inverter based and is certified by a nationally recognized testing laboratory to meet the requirements of Underwriters Laboratories Standard 1741 "Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources" (UL 1741).

The Company will approve the Level 1 Application if the generating facility also meets all of the following conditions:

- (1) For interconnection to a radial distribution circuit, the aggregated generation on the circuit, including the proposed generating facility, will not exceed 15% of the Line Section's most recent annual one hour peak load. A line section is the smallest part of the primary distribution system the generating facility could remain connected to after operation of any sectionalizing devices.
- (2) If the proposed generating facility is to be interconnected on a single-phase shared secondary, the aggregate generation capacity on the shared secondary, including the proposed generating facility, will not exceed the smaller of 20 kVA or the nameplate rating of the transformer.
- (3) If the proposed generating facility is single-phase and is to be interconnected on a center tap neutral of a 240 volt service, its addition shall not create an imbalance between the two sides of the 240 volt service of more than 20% of the nameplate rating of the service transformer.
- (4) If the generating facility is to be connected to three-phase, three wire primary utility distribution lines, the generator shall appear as a phase-to-phase connection at the primary utility distribution line.
- (5) If the generating facility is to be connected to three-phase, four wire primary utility distribution lines, the generator shall appear to the primary utility distribution line as an effectively grounded source.

Issued by authority of an Order of the Kentucky Public Service Commission dated April 27, 2020 in Case No. 2019-00271.
Issued: May 1, 2020
Effective: May 1, 2020
Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KENTUCKY PUBLIC SERVICE COMMISSION
Kent A. Chandler Executive Director

EFFECTIVE 5/1/2020 PURSUANT TO 807 KAR 6.011 SECTION 9(1)

LEVEL 1 (Contd.)

- (6) The interconnection will not be on an area or spot network¹.
- (7) The Company does not identify any violations of any applicable provisions of IEEE 1547, "Standard for Interconnecting Distributed Resources with Electric Power Systems".
- (8) No construction of facilities by the Company on its own system will be required to accommodate the generating facility

If the generating facility does not meet all of the above listed criteria, the Company, in its sole discretion, may either: 1.) approve the generating facility under the Level 1 Application if the Company determines that the generating facility can be safely and reliably connected to the Company's system; or 2) deny the application as submitted under the Level 1 Application.

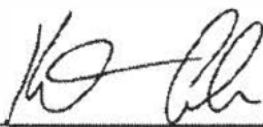
The Company shall notify the customer within 20 business days whether the application is approved or denied, based on the criteria provided in this section.

If the application lacks complete information, the Company shall notify the Customer that additional information is required, including a list of such additional information. The time between notification and receipt of required additional information will add to the time to process the application.

The Customer shall be notified whether the application is approved in writing. The approval will be conditioned upon successful completion of an initial installation inspection and witness test if required by the Company. The Company's written approval will indicate if an inspection and witness test are required. If an inspection and witness test are required, the Customer shall notify the Company within 3 business days of completion of the generating facility installation and schedule an inspection and witness test with the Company to occur within 10 business days of completion of the generator facility installation or as otherwise agreed to by the Company and the Customer. If an inspection and witness test is required, the Customer may not operate the generating facility (except for operational testing not to exceed two hours) until successful completion of such inspection and witness test. If the installation fails the inspection or witness test due to non-compliance with any provision in the Application and Company approval, the Customer shall not operate the generating facility until any and all non-compliance is corrected and re-inspected by the Company.

¹Area and spot networks are systems where multiple transformers are interconnected on the secondary side and multiple primary voltage circuits are used to feed the transformers. A spot network is typically used to serve a single building and the transformers are all in one location. An area network typically serves multiple customers with secondary conductors covering multiple city blocks and with transformers at various locations

Issued by authority of an Order of the Kentucky Public Service Commission dated April 27, 2020 in Case No. 2019-00271.
Issued: May 1, 2020
Effective: May 1, 2020
Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KENTUCKY PUBLIC SERVICE COMMISSION
Kent A. Chandler Executive Director

EFFECTIVE 5/1/2020 PURSUANT TO 807 KAR 6.011 SECTION 9 (1)

LEVEL 1 (Contd.)

If the Application is denied, the Company will supply the Customer with reasons for denial. The Customer may resubmit under Level 2 if appropriate.

LEVEL 2

A Level 2 Application is required under any of the following:

- (1) The generating facility is not inverter based;
- (2) The generating facility uses equipment that is not certified by a nationally recognized testing laboratory to meet the requirements of UL 1741; or
- (3) The generating facility does not meet one or more of the additional conditions under Level 1.

The Company will approve the Level 2 application if the generating facility meets the Company's technical interconnection requirements, which are based on IEEE 1547. The Company's technical interconnection requirements are available on the Company's website or upon request.

The Company will process the Level 2 Application within 30 business days of receipt of a complete application. Within that time the Company will respond in one of the following ways:

1. The application is approved and the Company will provide the Customer with an Interconnection Agreement to sign.
2. If construction or other changes to the Company's distribution system are required, the cost will be the responsibility of the Customer. The Company will give notice to the Customer and offer to meet to discuss estimated costs and construction timeframe. Should Customer agree to pay for costs and proceed, Company will provide the Customer with an Interconnection Agreement to sign within a reasonable time.
3. The application is denied. The Company will supply the Customer with reasons for denial and offer to meet to discuss possible changes that would result in Company approval. Customer may resubmit application with changes.

If application lacks complete information, Company shall notify Customer that additional information is required, including a list of such additional information. The time between notification and receipt of required additional information will add to the 30 business day target to process the application.

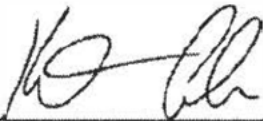
The Interconnection Agreement will contain all the terms and conditions for interconnection consistent with those specified in this tariff, inspection and witness test requirements, description of and cost of construction or other changes to the Company's distribution system required to accommodate the generating facility, and

Issued by authority of an Order of the Kentucky Public Service Commission dated April 27, 2020 in Case No. 2019-00271.

Issued: May 1, 2020

Effective: May 1, 2020

Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KENTUCKY PUBLIC SERVICE COMMISSION
Kent A. Chandler Executive Director

EFFECTIVE 5/1/2020
PURSUANT TO 807 KAR 5.011 SECTION 6 (1)

Duke Energy Kentucky, Inc.
1262 Cox Road
Erlanger, KY 41018

KY.P.S.C. Electric No. 2
Sixth Revised Sheet No. 89
Cancels and Supersedes
Fifth Revised Sheet No. 89
Page 6 of 9

LEVEL 2(Contd.)

detailed documentation of the generating facilities which may include single line diagrams, relay settings, and description of operation.

Customer may not operate the generating facility until an Interconnection Agreement is signed by the Customer and Company and all necessary conditions stipulated in the agreement are met.

APPLICATION, INSPECTION AND PROCESSING FEES

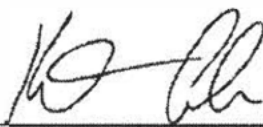
No application fees or other review, study, or inspection fees are charged by the Company for Level 1 or Level 2 applications.

TERMS AND CONDITIONS FOR INTERCONNECTION

To interconnect to the Company's distribution system, the Customer's generating facility shall comply with the following terms and conditions:

1. The Company shall provide Customer net metering services, without charge for standard metering equipment, through a standard kilowatt-hour metering system capable of measuring the flow of electricity in two (2) directions. If the Customer requests any additional meter or meters or distribution upgrades are needed to monitor the flow in each direction, such installations shall be at the Customer's expense.
2. Customer shall install, operate, and maintain, at Customer's sole cost and expense, any control, protective, or other equipment on the Customer's system required by the Company's technical interconnection requirements based on IEEE 1547, the NEC, accredited testing laboratories such as Underwriters Laboratories, and the manufacturer's suggested practices for safe, efficient and reliable operation of the generating facility in parallel with Company's electric system. Customer shall bear full responsibility for the installation, maintenance and safe operation of the generating facility. Upon reasonable request from the Company, Customer shall demonstrate generating facility compliance.
3. The generating facility shall comply with, and Customer shall represent and warrant its compliance with: (a) any applicable safety and power quality standards established by IEEE and accredited testing laboratories such as Underwriters Laboratories; (b) the NEC as may be revised from time to time; (c) Company's rules, regulations, and Company's Service Regulations as contained in Company's Retail Electric Tariff as may be revised from time to time with the approval of the Kentucky Public Service Commission (Commission); (d) the rules and regulations of the Commission, as such rules and regulations may be revised from time to time by the Commission; and (e) all other applicable local, state, and federal codes and laws, as the same may be in effect from time to time. Where required by law, Customer shall pass an electrical inspection of the generating facility by a local authority having jurisdiction over the installation.

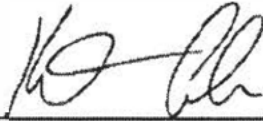
Issued by authority of an Order of the Kentucky Public Service Commission dated April 27, 2020 in Case No. 2019-00271.
Issued: May 1, 2020
Effective: May 1, 2020
Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KENTUCKY PUBLIC SERVICE COMMISSION
Kent A. Chandler Executive Director

EFFECTIVE 5/1/2020 PURSUANT TO 807 KAR 6.011 SECTION 9 (1)

TERMS AND CONDITIONS FOR INTERCONNECTION (Contd.)

4. Any changes or additions to the Company's system required to accommodate the generating facility shall be considered excess facilities. Customer shall agree to pay Company for actual costs incurred for all such excess facilities prior to construction.
5. Customer shall operate the generating facility in such a manner as not to cause undue fluctuations in voltage, intermittent load characteristics or otherwise interfere with the operation of Company's electric system. At all times when the generating facility is being operated in parallel with Company's electric system, Customer shall so operate the generating facility in such a manner that no adverse impacts will be produced thereby to the service quality rendered by Company to any of its other customers or to any electric system interconnected with Company's electric system. Customer shall agree that the interconnection and operation of the generating facility is secondary to, and shall not interfere with, Company's ability to meet its primary responsibility of furnishing reasonably adequate service to its customers.
6. Customer shall be responsible for protecting, at Customer's sole cost and expense, the generating facility from any condition or disturbance on Company's electric system, including, but not limited to, voltage sags or swells, system faults, outages, loss of a single phase of supply, equipment failures, and lightning or switching surges, except that the Company shall be responsible for repair of damage caused to the generating facility resulting solely from the negligence or willful misconduct on the part of the Company.
7. After initial installation, Company shall have the right to inspect and/or witness commissioning tests, as specified in the Level 1 or Level 2 application and approval process. Following the initial testing and inspection of the generating facility and upon reasonable advance notice to Customer, Company shall have access at reasonable times to the generating facility to perform reasonable on-site inspections to verify that the installation, maintenance and operation of the generating facility comply with the requirements of this Tariff.
8. For inverter based systems that are certified by a nationally recognized testing laboratory to meet the requirements of UL 1741, the Company does not require a Customer owned external disconnect switch (EDS). For other generating facility types, an isolation device that satisfies the Company's technical interconnection requirements must be included. Where required by the Company, an eligible Customer shall furnish and install on Customer's side of the point of common coupling a safety disconnect switch which shall be capable of fully disconnecting the Customer's energy generating equipment from Company's electric service under the full rated conditions of the Customer's generating facility. The EDS shall be located adjacent to Company's meters or the location of the EDS shall be noted by placing a sticker on the meter, and shall be of the visible break type in a metal enclosure which can be secured by a padlock. If the EDS is not located directly

Issued by authority of an Order of the Kentucky Public Service
Commission dated April 27, 2020 in Case No. 2019-00271.
Issued: May 1, 2020
Effective: May 1, 2020
Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KENTUCKY PUBLIC SERVICE COMMISSION
Kent A. Chandler Executive Director

EFFECTIVE 5/1/2020 PURSUANT TO 807 KAR 5 011 SECTION 5 (1)

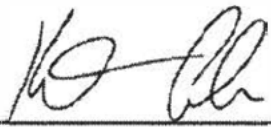
TERMS AND CONDITIONS FOR INTERCONNECTION (Contd.)

adjacent to the meter, the Customer shall be responsible for ensuring the location of the EDS is properly and legibly identified for so long as the generating facility is operational. The disconnect switch shall be accessible to Company personnel at all times.

9. Company shall have the right and authority at Company's sole discretion to isolate the generating facility or require the Customer to discontinue operation of the generating facility if Company believes that: (a) continued interconnection and parallel operation of the generating facility with Company's electric system creates or contributes (or may create or contribute) to a system emergency on either Company's or Customer's electric system; (b) the generating facility is not in compliance with the requirements of this Tariff, and the non-compliance adversely affects the safety, reliability or power quality of Company's electric system; or (c) the generating facility interferes with the operation of Company's electric system. In non-emergency situations, Company shall give Customer notice of noncompliance including a description of the specific noncompliance condition and allow Customer a reasonable time to cure the noncompliance prior to isolating the Generating Facilities. In emergency situations, where the Company is unable to immediately isolate or cause the Customer to isolate only the generating facility, the Company may isolate the Customer's entire facility.
10. Customer shall agree that, without the prior written permission from Company, no changes shall be made to the generating facility as initially approved. Increases in generating facility capacity will require a new "Application for Interconnection and Net Metering" which will be evaluated on the same basis as any other new application. Repair and replacement of existing generating facility components with like components that meet UL 1741 certification requirements for Level 1 facilities and not resulting in increases in generating facility capacity is allowed without approval.
11. To the extent permitted by law, the Customer shall protect, indemnify and hold harmless the Company and its directors, officers, employees, agents, representatives and contractors against and from all loss, claims, actions or suits, including costs and attorneys fees, for or on account of any injury or death of persons or damage to property caused by the Customer or the Customer's employees, agents, representatives and contractors in tampering with, repairing, maintaining or operating the Customer's generating facility or any related equipment or any facilities owned by the Company except where such injury, death or damage was caused or contributed to by the fault or negligence of the Company or its employees, agents, representatives or contractors.

The liability of the Company to the Customer for injury to person and property shall be governed by the tariff(s) for the class of service under which the Customer is taking service.

Issued by authority of an Order of the Kentucky Public Service
Commission dated April 27, 2020 in Case No. 2019-00271.
Issued: May 1, 2020
Effective: May 1, 2020
Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KENTUCKY PUBLIC SERVICE COMMISSION
Kent A. Chandler Executive Director

EFFECTIVE 5/1/2020 PURSUANT TO 807 KAR 6 011 SECTION 9 (1)

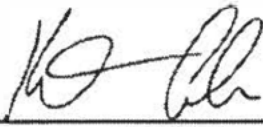
Duke Energy Kentucky, Inc.
1262 Cox Road
Erianger, KY 41018

KY.P.S.C. Electric No. 2
Sixth Revised Sheet No. 89
Cancels and Supersedes
Fifth Revised Sheet No. 89
Page 9 of 9

TERMS AND CONDITIONS FOR INTERCONNECTION (Contd.)

12. The Customer shall maintain general liability insurance coverage (through a standard homeowner's, commercial or other policy) for both Level 1 and Level 2 generating facilities. Customer shall upon request provide Company with proof of such insurance at the time that application is made for net metering.
13. By entering into an Interconnection Agreement, or by inspection, if any, or by non-rejection, or by approval, or in any other way, Company does not give any warranty, express or implied, as to the adequacy, safety, compliance with applicable codes or requirements, or as to any other characteristics, of the generating facility equipment, controls, and protective relays and equipment.
14. A Customer's generating facility is transferable to other persons or service locations only after notification to the Company has been made and verification that the installation is in compliance with this tariff. Upon written notification that an approved generating facility is being transferred to another person, customer or location, the Company will verify that the installation is in compliance with this tariff and provide written notification to the customer(s) within 20 business days. If the installation is no longer in compliance with this tariff, the Company will notify the Customer in writing and list what must be done to place the facility in compliance.
15. The Customer shall retain any and all Renewable Energy Credits (RECs) that may be generated by their generating facility.

Issued by authority of an Order of the Kentucky Public Service
Commission dated April 27, 2020 in Case No. 2019-00271.
Issued: May 1, 2020
Effective: May 1, 2020
Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KENTUCKY PUBLIC SERVICE COMMISSION
Kent A. Chandler Executive Director

EFFECTIVE 5/1/2020 PURSUANT TO 807 KAR 6.011 SECTION 9 (1)



Duke Energy Corporation
P. O. Box 060
Cincinnati, OH 45201-0960
Attn: Mail Code EY500

Interconnection Approval

Date

Customer name
Street address
City, State, Zip

Dear (customer name):

Your Level 1 Application for Interconnection and Net Metering dated (xxxx) for (describe generating system) located at (address) has been approved by Duke Energy subject to the provisions contained in the Level 1 Application for Interconnection and Net Metering and as indicated below.

Duke Energy inspection and witness test: Required Waived

If a Duke Energy inspection and witness test is required, Customer shall notify Duke Energy within 3 business days of completion of the generating facility installation and schedule an inspection and witness test with Duke Energy to occur within 10 business days of completion of the generation facility installation or as otherwise agreed to by Duke Energy and the Customer. The Customer may not operate the generation facility (except for operational testing not to exceed two hours) until such inspection and witness test is successfully completed and all other terms and conditions in the Application have been met. Call _____ to schedule an inspection and witness test.

If a Duke Energy inspection and witness test is waived, operation of the generation facility may begin when installation is complete and all other terms and conditions in the Application have been met.

Additions, Changes, or Clarifications to Application Information:

None As specified here: _____

Approved by: (Duke Representative)
(Title)
(phone)
(email)

KENTUCKY PUBLIC SERVICE COMMISSION
JEFF R. DEROUEN EXECUTIVE DIRECTOR
TARIFF BRANCH <i>Brent Kintley</i>
EFFECTIVE 5/28/2011 PURSUANT TO 807 KAR 5:011 SECTION 9 (1) www.duke-energy.com

LEVEL 2
INTERCONNECTION AGREEMENT

THIS INTERCONNECTION AGREEMENT (Agreement) is made and entered into this _____ day of _____, 20____, by and between Duke Energy Kentucky (Company), and _____ (Customer). Company and Customer are hereinafter sometimes referred to individually as "Party" or collectively as "Parties".

WITNESSETH:

WHEREAS, Customer is installing, or has installed, generating equipment, controls, and protective relays and equipment (Generating Facility) used to interconnect and operate in parallel with Company's electric system, which Generating Facility is more fully described in Exhibit A, attached hereto and incorporated herein by this Agreement, and as follows:

Location: _____

Generator Size and Type: _____

NOW, THEREFORE, in consideration thereof, Customer and Company agree as follows:

Company agrees to allow Customer to interconnect and operate the Generating Facility in parallel with the Company's electric system and Customer agrees to abide by Company's Net Metering Tariff and all the Terms and Conditions listed in this Agreement including any additional conditions listed in Exhibit A.

Terms and Conditions:

To interconnect to the Company's distribution system, the Customer's generating facility shall comply with the following terms and conditions:

1. The Company shall provide Customer net metering services, without charge for standard metering equipment, through a standard kilowatt-hour metering system capable of measuring the flow of electricity in two (2) directions. If the Customer requests any additional meter or meters or distribution upgrades are needed to monitor the flow in each direction, such installations shall be at the Customer's expense.
2. Customer shall install, operate, and maintain, at Customer's sole cost and expense, any control, protective, or other equipment on the Customer's system required by the Company's technical interconnection requirements based on IEEE 1547, the NEC, accredited testing laboratories such as Underwriters Laboratories, and the manufacturer's suggested practices for safe, efficient and reliable operation of the generating facility in parallel with Company's electric system. Customer shall bear full responsibility for the installation, maintenance and safe operation of the generating facility. Upon reasonable request from the Company, Customer shall demonstrate generating facility compliance.
3. The generating facility shall comply with, and Customer shall represent and warrant its compliance with: (a) any applicable safety and power quality standards established by the Institute of Electrical and Electronics Engineers (IEEE) and accredited testing laboratories such as Underwriters Laboratories (UL); (b) the National Electrical Code (NEC) as may be revised from time to time; (c) Company's rules, regulations and Company's Service Regulations as contained in Company's Retail E

(Customer Name) and Duke Energy Kentucky Interconnection Agreement

KENTUCKY PUBLIC SERVICE COMMISSION
JEFF R. DEBOUEN EXECUTIVE DIRECTOR
APPROVED FOR THE KENTUCKY BRANCH
<i>Brent Kirkley</i>
EFFECTIVE 9/30/2010 PURSUANT TO 807 KAR 5.011 SECTION 9 (1)

be revised from time to time with the approval of the Kentucky Public Service Commission (Commission); (d) the rules and regulations of the Commission, as such rules and regulations may be revised from time to time by the Commission; and (e) all other applicable local, state, and federal codes and laws, as the same may be in effect from time to time. Where required by law, Customer shall pass an electrical inspection of the generating facility by a local authority having jurisdiction over the installation.

4. Any changes or additions to the Company's system required to accommodate the generating facility shall be considered excess facilities. Customer shall agree to pay Company for actual costs incurred for all such excess facilities prior to construction.
5. Customer shall operate the generating facility in such a manner as not to cause undue fluctuations in voltage, intermittent load characteristics or otherwise interfere with the operation of Company's electric system. At all times when the generating facility is being operated in parallel with Company's electric system, Customer shall so operate the generating facility in such a manner that no adverse impacts will be produced thereby to the service quality rendered by Company to any of its other customers or to any electric system interconnected with Company's electric system. Customer shall agree that the interconnection and operation of the generating facility is secondary to, and shall not interfere with, Company's ability to meet its primary responsibility of furnishing reasonably adequate service to its customers.
6. Customer shall be responsible for protecting, at Customer's sole cost and expense, the generating facility from any condition or disturbance on Company's electric system, including, but not limited to, voltage sags or swells, system faults, outages, loss of a single phase of supply, equipment failures, and lightning or switching surges, except that the Company shall be responsible for repair of damage caused to the generating facility resulting solely from the negligence or willful misconduct on the part of the Company.
7. After initial installation, Company shall have the right to inspect and/or witness commissioning tests, as specified in Exhibit A of this Agreement. Following the initial testing and inspection of the generating facility and upon reasonable advance notice to Customer, Company shall have access at reasonable times to the generating facility to perform reasonable on-site inspections to verify that the installation, maintenance and operation of the generating facility comply with the requirements of the Company's Net Metering Tariff and this Agreement.
8. For Level 2 generating facilities, where required by the Company, an eligible Customer shall furnish and install on Customer's side of the point of common coupling a safety disconnect switch which shall be capable of fully disconnecting the Customer's energy generating equipment from Company's electric service under the full rated conditions of the Customer's generating facility. The external disconnect switch (EDS) shall be located adjacent to Company's meters or the location of the EDS shall be noted by placing a sticker on the meter and shall be of the visible break type in a metal enclosure which can be secured by a padlock. If the EDS is not located directly adjacent to the meter, the Customer shall be responsible for ensuring the location of the EDS is properly and legibly identified for so long as the generating facility is operational. The disconnect switch shall be accessible to Company personnel at all times. The Company may waive the requirement for an external disconnect switch for a generating facility at its sole discretion, and on a case by case basis, upon review of the generating facility operating parameters and if permitted under the Company's safety and operating procedures.
9. Company shall have the right and authority at Company's sole discretion to isolate the generating facility or require the Customer to discontinue operation of the generating facility if Company believes that: (a) continued interconnection and

(Customer Name) and Duke Energy Kentucky Interconnection Agreement, effective 9/30/2010

KENTUCKY PUBLIC SERVICE COMMISSION
FRANCIS BEROUEN EXECUTIVE DIRECTOR
<i>Francis Berouen</i>
EFFECTIVE