



Mailing Address:
139 East Fourth Street
1303-Main
Cincinnati, Ohio 45202
o: 513-287-4356
f: 513-287-4385

Minna.Sunderman@duke-energy.com
Minna Sunderman
Senior Paralegal

VIA EMAIL: PSCED@ky.gov

April 27, 2022

Ms. Linda Bridwell
Executive Director
Kentucky Public Service Commission
211 Sower Blvd
Frankfort, KY 40601

RECEIVED

APR 27 2022

PUBLIC SERVICE
COMMISSION

Re: Case No. 2021-00324
In the Matter of Joseph J. Oka v. Duke Energy Kentucky, Inc.

Dear Ms. Bridwell:

In accordance with the Commission's Order dated April 8, 2022, Paragraph 4, Duke Energy Kentucky, Inc. (Duke Energy Kentucky or the Company) hereby submits unredacted versions of STAFF-DR-02-003 Confidential Attachments 2(a)-(i). Please note Mr. Oka's account number has been kept redacted as ordered.

In accordance with 807 KAR 5:001, I certify that the electronically filed documents are true and accurate copies of the original documents.

Very Truly Yours,

Minna Sunderman

Enclosures: As stated

cc: Joseph Oka

Duke Energy Kentucky - Electric Bill Calc

Cycle	15	State	KY
From Date	1/21/2021	Service	Elect
To Date	4/22/2021	Rate	RS
Bill Period	4/1/2021	Phase	0
Billingcycle, old	04202101	Total Sld Bill #	\$47.37
Billingcycle, new	04202101	KY Ceiling #	-
Season	none	KY Church #	-
LMR?	N	Actual Bill #	47.37

Total/OnPk	Off Pk	Total
Metered kWh	403	0
Adjusted	403	0
Meter Adj Fac	0.0%	
Prorate Factor (# days)	1.0000	
Prorate Factor (old)	1.0000	
Prorate Factor (new)	1.0000	
Metered kW	0	0
Dmd prorated for # days	0.00	0.00

Customer Charge	Step size	Usage	On Peak or Total Price	Revenue
LMR Cust Charge			12.90	12.90
Demand			0.00	0.00
1st step	0	0.00	0.00	0.00
2nd step	0	0.00	0.00	0.00
Energy	99999999	403.00	0.079431	32.01
1st step	0	0.00	0.000000	0.00
2nd step	0	0.00	0.000000	0.00
3rd step	0	0.00	0.000000	0.00
Total Base Charges				44.91
DSM	99999999	403.00	-0.002863	(1.15)
PSM	99999999	403.00	-0.001122	(0.45)
ESM			8.20%	3.59
credit for base fuel				0.00
Total ESM				3.59
Total Delivery Riders				\$1.99
EFC	99999999	403.00	0.001158	0.47
Total Bill				\$47.37

Not TOD Rate	Usage	Off Peak Price	Revenue
Step size			
0	0.00	0.00	-
0	0	0.000000	-
99999999	0	-0.002863	0.00
99999999	0	-0.001122	0.00
		8.20%	0.00
99999999	0	0.001158	-
Off Peak Subtotal			-
Total On/Off Peak Bill			\$47.37

Not Ceiling Rate	Usage	Ceiling Price	Revenue
Step size			
0	0.00	0.00	-
0	0	0.000000	-
99999999	0	-0.002863	0.00
99999999	0	-0.001122	0.00
		8.20%	0.00
99999999	0	0.001158	-
Total Ceiling Bill			-

Not Church Rate	Usage	Church Ceiling Price	Revenue
Step size			
0	0.00	0.00	-
0	0.000000	-	-
99999999	0	#####	-
99999999	0	#####	-
		8.20%	0.00
99999999	0	0.001158	-
Total Church Bill			-

Portion below this line

Customer Charge	Step size	Usage	On Peak or Total Price	Revenue
LMR Cust Charge			0.00	0.00
Demand			0.00	0.00
1st step	0	0.00	0.00	0.00
2nd step	0	0.00	0.00	0.00
Energy	99999999	403.00	0.000000	0.00
1st step	0	0.00	0.000000	0.00
2nd step	0	0.00	0.000000	0.00
3rd step	0	0.00	0.000000	0.00
Total Base Charges				0.00
DSM	99999999	0.00	0.000000	0.00
PSM	99999999	0.00	0.000000	0.00
ESM			0.00%	0.00
				0.00
				0.00
Total Delivery Riders				\$0.00
EFC	99999999	403.00	0.000000	0.00
Total Bill				\$0.00

Not TOD Rate	Usage	Off Peak Price	Revenue
Step size			
0	0.00	0.00	-
99999999	0	0.000000	-
			-
99999999	0	0.000000	0.00
99999999	0	0.000000	0.00
		0.00%	0.00
			0.00
			0.00
Off Peak Subtotal			-
Total On/Off Peak Bill			\$0.00

Not Ceiling Rate	Usage	Ceiling Price	Revenue
Step size			
0	0.00	0.00	-
0	0	0.000000	-
99999999	0	0.000000	0.00
99999999	0	0.000000	0.00
		0.00%	0.00
			0.00
			0.00
Ceiling Subtotal			-
Total Ceiling Bill			\$0.00

Not Church Rate	Usage	Church Ceiling Price	Revenue
Step size			
0	0.00	0.00	-
0	0.000000	-	-
99999999	0	0.000000	-
99999999	0	0.000000	-
		0.00%	0.00
			0.00
			0.00
Church Subtotal			-
Total Church Bill			\$0.00

Jan-00 - Apr-22	Duke Energy Rate RS	Revenue
44308 Days	Old Rate Effective Jan-00 To N/A	12.90
	Customer Charge	0.00
	LMR Charge	0.00
	Demand Charge	0.00
	0 kW @	0.00
	0 kW @	0.00
	Energy Charge	32.01
	403 kWh @	0.00
	0 kWh @	0.00
	0 kWh @	0.00
	Elec ESM Rider	3.59
	Elec DSM Rider	(1.15)
	403 kWh @	(0.45)
	Rider PSM	0.00
	403 kWh @	0.00
	Elec Fuel Adjustment	0.47
	403 kWh @	0.00
	Duke Energy Rate RS	47.37
	New Rate Effective N/A To Apr-22	0.00
	Customer Charge	0.00
	LMR Charge	0.00
	Demand Charge	0.00
	0 kW @	0.00
	0 kW @	0.00
	Energy Charge	0.00
	403 kWh @	0.00
	0 kWh @	0.00
	0 kWh @	0.00
	Elec ESM Rider	0.00
	Elec DSM Rider	0.00
	0 kWh @	0.00
	Rider PSM	0.00
	0 kWh @	0.00
	Elec Fuel Adjustment	0.00
	403 kWh @	0.00
	Total Current Electric Charges	\$47.37

Jan-00 - Apr-22	Duke Energy Rate RS	Revenue
	Old Rate Effective Jan-00 To N/A	0.00
	Demand Charge	0.00
	0 kW @	0.00
	Energy Charge	0.00
	0 kWh @	0.00
	Elec ESM Rider	0.00
	Rider PSM	0.00
	403 kWh @	0.00
	Elec Fuel Adjustment	0.00
	0 kWh @	0.00
	Duke Energy Rate RS	0.00
	New Rate Effective N/A To Apr-22	0.00
	Demand Charge	0.00
	0 kW @	0.00
	Energy Charge	0.00
	0 kWh @	0.00
	Elec ESM Rider	0.00
	Elec Fuel Adjustment	0.00
	0 kWh @	0.00
	Total Current Electric Charges	\$47.37

Customer is a NET PURCHASER - use this section for adjustment calc

Net metering	0			
	Total/OnPk	Off Pk	Total	Net Purchaser
Metered Channel 3 kWh	403			
Adjusted	403	0	403	0
Metered Channel 3 kW	0	0		
Dmd prorated for # days	0.01	0.01		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			0.00
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			0.00
1st step	99999999	0.00	0.00
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			12.90
DSM	99999999	0.00	0.00
PSM	99999999	0.00	0.00
ESM			1.06
credit for base fuel			0.00
Total ESM			1.06
Total Deliverv Riders			\$1.06
EFC	99999999	0.00	0.00
		Total Bill	\$13.96
		Account Adjustment: Net	
		Credit Adjustment	\$33.41
		Credit Usage	403

ProRateOld	1
ProRateNew	1
ProDays	1

Net metering	0			
	Total/OnPk	Off Pk	Total	Net Purchaser
Metered Channel 3 kWh	403	0		
Adjusted	403	0	403	
Metered Channel 3 kW	0	0		
Dmd prorated for # days	0	0.01		

17	Not TOD Rate	Off Peak	Revenue
	Step size	Usage	Price
4	0.00	0.00	99999999.00
6	0.00	0	0.000000
			8.20%
			0.00
			0.001158
		Off Peak Subtotal	-
		Total On/Off Peak Bill	\$13.96
			0.00

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			0.00
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			0.00
1st step	99999999	99999999.00	#####
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			#####
DSM	99999999		#VALUE!
PSM	99999999		#VALUE!
ESM for flat charges			1.06
ESM for RS energy			#VALUE!
ESM for non-RS enerav & dmd			0.06
EFC	99999999		#VALUE!
		Original CMS Bill	\$47.37
		Correction for CMS Bill	(47.37)
		Net Generator Credit	#VALUE!
		Credit Adjustment	
		Credit Usage	

acct	EBH amount	BW BEECHWOOD SCHOOL TAX Rate Incr for School Tax	KY KENTUCKY UTILITY TAX Kentucky State Tax	none
	47.37	1.42	2.95	0
		Tax above should match TXSI		
		Taxing district above should match SADI		
		Tax adjustment for TADJ		
	33.41	1.00	2.06	0

*To add new DEK NETM accounts contact rates. Rates Job Aid - Update of Rate Calc Spreadsheets for simple rate changes and new riders.

One Month Bill Calculation Program for DE OH (Gas), DE KY and DE IN

New Rates Effective
January cycle 8, 2022

State = **KY** (OH, KY or IN)
 Service Type = **Elect** (Elect or Gas)
 Rate = **RS** (Select rate)

Metered Usage = **717** kWh

Cycle = **15** 01 to 21
 Start Read Date =
 Stop Read Date = **5/21/2021**
 Bill Period = **5/1/2021**
 Prorate for # Days

Net Metering?

Total Bill Amount

\$78.55

Read Date

1/13/2022

Bill Date

1/14/2022

Window Offset

neg # of months for test purposes

Revised: 1/13/2022 CT

NOTES FOR USERS:

#1 This spreadsheet will NOT calculate DE Ohio Electric Rates - use the ERRSP or ESP spreadsheet as appropriate for the time period you need to calculate an Ohio Electric bill.

#2 Enter values in yellow cells on this page only.

#3 Enter "as metered" not "as billed" values. The spreadsheet will automatically adjust to "billed" values when appropriate.

#4 Use the Clear buttons, DELETE key or enter zero to remove cell contents; DO NOT use the space bar to create a blank cell

Notes:	1/13/2022	IN Elec rider 62/Environmental Compliance; KY NETM accounts added to tax table
	1/1/2022	OH Gas rider GCR; KY elec riders FAC, ESM, DSMR; KY gas Monthly Connection Charge, Energy/Gas Delivery, WNA, DSMR; IN elec riders 60/Fuel, 66A/EE, 68/IRTO/MISO, and UTR/Utility Receipts Tax, KY NETM accounts added to tax table
	12/1/2021	OH gas GCRs; KY elec FAC, PSM and ESM, IN elec Rider 72 (FMCA), fix for KY elec DT of peak kW rounding difference from CMS, addition of new KY NETM accounts to tax district table, annual
	10/29/2021	OH gas GCRs, KY elec FAC and ESM, IN elec rider 65/TDSIC
	10/8/2021	Published including Lighting, Traffic Signal and Unmetered/Fixed Load worksheets.
	9/30/2021	KY elec FAC, ESM, OH gas GCR, IN rider 60/FAC
	9/15/2021	KY UN-Metered Base Rate Energy charge updates from rate case re-hearing
	8/31/2021	KY elec FAC, ESM, PSM, KY gas GCR, OH gas GCR, KY NETM accounts added to tax table
	8/16/2021	KY Metered Base Rate Energy charge updates from rate case re-hearing
	8/10/2021	DEK NETM accounts added to tax table
	8/2/2021	OH GCR & PIPP, KY FAC, ESM & NETM accounts added to tax table, IN Rider 67 (Credits Adjustment)
	7/29/2021	IN Rider 62 (POLU)
	7/22/2021	DEK NETM accounts added to tax table
	7/14/2021	IN rider 60/FAC
	7/13/2021	DEK NETM accounts added to tax table
	7/1/2021	OH Gas GCR, KY Elec FAC, and ESM; IN Rider 73 (Renewable Energy)
	6/2/2021	OH Gas GCR, KY Gas GCA; KY Elec FAC, ESM and PSM; IN Rider 72 (FMCA)
	5/14/2021	Added all current DEK NETM customers to tax district sheet so they are available in the KY tax drop down list
	5/3/2021	KY elec FAC, ESM, and DSMR; KY gas DSMR, OH gas GCR, AMRP, CEP
	4/1/2021	KY elec ESM and FAC, IN rider 60/FAC, OH gas GCRs
	3/3/2021	KY elec FAC, KY elec riders ESM, PSM and DSM, KY gas GCA, OH gas GCR, IN riders 68 (MISO) and 70 (SRA)
	2/1/2021	IN Rider 62 (POLU)
	2/2/2021	KY elec FAC, KY elec ESM, OH gas GCR
	1/4/2021	KY elec FAC, KY elec ESM, OH gas GCR, IN Rider 60 (FAC), Rider 66 (EE21)
	12/1/2020	KY elec FAC, KY elec ESM, KY elec PSM, KY gas GCR, OH gas GCR
	10/29/2020	KY elec FAC, KY elec ESM, OH gas GCR, KY elec base rate rehearing, service rendered (prorated)
	9/29/2020	KY elec FAC, KY elec ESM, OH gas GCR, IN Rider 60 (FAC), Rider 66 (EE21)
	8/28/2020	KY elec FAC, KY gas GCR, KY elec ESM and PSM, OH gas GCR
	7/30/2020	KY elec FAC, KY elec ESM, OH gas GCR and riders PIPP, UE-G
	7/29/2020	IN rate case (prorated for metered rates)
	6/30/2020	KY Elec FAC, KY Elec ESM, KY Elec DSMR (HEA adder in RS cust charge), OH gas GCR, IN Rider 60 (FAC)
	6/1/2020	KY Elec FAC, KY Elec ESM, KY Elec PSM, OH gas GCR, IN Rider 67 (CMC)
	4/30/2020	KY Elec base rates, all service rendered (prorated)
	4/30/2020	KY Elec FAC, KY Elec ESM, KY Elec DSMR, KY Gas DSMR, OH gas GCR, all bills rendered
	3/2/2020	KY Elec FAC, KY Elec ESM, KY Elec PSM, IN Rider 66A
	1/31/2020	KY Elec FAC, KY Elec ESM, OH Gas GCR, IN Rider 67 (CMC)
	1/2/2020	KY Elec FAC, KY Elec ESM, OH Gas GCR, IN Riders 60 (FAC), EE19, EE20, 67 (CMC)

Proration Factor - mid-month rate change

Beginning Meter Read Date: 1/0/1900
 Ending Meter Read Date: 5/21/2021
 Number of Days: 44337

Prorated Rate Change: N
 Prorated Rate Change Date: N/A
 Did proration occur within bill period?: N

Number of Days before rate change: N/A
 Number of Days after rate change: N/A

Proration Factor, before rate change: 1.000
 Proration Factor, after rate change: 1.000

Billpercycle, before rate change: 05202101
 Billpercycle, after rate change: 05202101

checks the concatenation row in rates to look for "Prorate"
finds the windowed read date matching the concatenation of the prorated rate change

Proration Factor - Short Bill

Prorate for Short Bill?: 1/0/1900
 Cycle: 15

Beginning on-cycle Read Date for cycle: 4/22/2021

Ending on-cycle Read Date for cycle: 5/21/2021
 Number of Days in Period: 29

Beginning Meter Read Date: 1/0/1900
 Ending Meter Read Date: 5/21/2021
 Number of Days: 44337

Proration Factor: 1.000

ProRateOld	1
ProRateNew	1
ProDays	1

Customer is a NET PURCHASER - use this section for adjustment calc

Net metering	0			
Metered Channel 3 kWh	717			
Adjusted	717	0	717	0
Metered Channel 3 kW	0			
Dmd prorated for # days	0.01	0.01		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			0.00
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			0.00
1st step	99999999	0.00	0.00
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			12.90
DSM	99999999	0.00	0.00
PSM	99999999	0.00	0.00
ESM			1.17
credit for base fuel			0.00
Total ESM			1.17
Total Delivery Riders			\$1.17
EFC	99999999	0.00	0.00
Total Bill			\$14.07
Account Adjustment: Net			
Credit Adjustment			\$64.48
Credit Usage			717

Not TOD Rate	Step size	Usage	Off Peak Price	Revenue
17				
4	0.00	0.00	99999999.00	-
6	0.00	0	0.000000	-
			9.07%	0.00
99999999	0	0.001963		-
			Off Peak Subtotal	-
			Total On/Off Peak Bill	\$14.07
				0.00

Net metering	0			
Metered Channel 3 kWh	717			
Adjusted	717	0	717	0
Metered Channel 3 kW	0			
Dmd prorated for # days	0	0.01		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			0.00
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			0.00
1st step	99999999	99999999.00	7,943,099.02
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			7,943,112.82
DSM	99999999		#VALUE!
PSM	99999999		#VALUE!
ESM for flat charges			1.17
ESM for RS energy			#VALUE!
ESM for non-RS energv & dmd			0.00
EFC	99999999		#VALUE!
Original CMS Bill			\$78.55
Correction for CMS Bill			(78.55)
Net Generator Credit			#VALUE!
Credit Adjustment			
Credit Usage			

Select NETM acct*	EBH amount	CV CITY OF COWINGTON FRANCHISE FEE	KN NTON COUNTY SCHOOL	KY KENTUCKY UTILITY TAX
	78.55	Franchise Fee-Covington	Rate Incr for School Tax	Kentucky State Tax
		2.35	2.43	5
Tax above should match TXSI				
Taxing district above should match SADI				
	64.48	1.93	1.99	4.1
Tax adjustment for TADJ				

*To add new DEK NETM accounts contact rates. Rates Job Aid - Update of Rate Calc Spreadsheets for simple rate changes and new riders.

One Month Bill Calculation Program for DE OH (Gas), DE KY and DE IN

State = **KY** (OH, KY or IN)
Service Type = **Elect** (Elect or Gas)
Rate = **RS** (Select rate)

Metered Usage = **844** kWh

Net Metering? **Y**

Total Bill Amount
\$89.89

New Rates Effective
January cycle 8, 2022

Cycle = **15** 01 to 21

Start Read Date = **6/22/2021**
Stop Read Date = **6/22/2021**
Bill Period **6/1/2021**
Prorate for # Days

Read Date
1/13/2022

Bill Date
1/14/2022

Window Offset
neg # of months for test purposes

Revised: 1/13/2022 CT

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	10/29/2021	OH gas GCRs, KY elec FAC and ESM, IN elec rider 65/TDSIC
	10/8/2021	Published including Lighting, Traffic Signal and Unmetered/Fixed Load worksheets.
	9/30/2021	KY elec FAC, ESM, OH gas GCR, IN rider 60/FAC
	9/15/2021	KY UN-Metered Base Rate Energy charge updates from rate case re-hearing
	8/31/2021	KY elec FAC, ESM, PSM, KY gas GCR, OH gas GCR, KY NETM accounts added to tax table
	8/16/2021	KY Metered Base Rate Energy charge updates from rate case re-hearing
	8/10/2021	DEK NETM accounts added to tax table
	8/2/2021	OH GCR & PIPP, KY FAC, ESM & NETM accounts added to tax table, IN Rider 67 (Credits Adjustment)
	7/29/2021	IN Rider 62 (POLLU)
	7/22/2021	DEK NETM accounts added to tax table
	7/14/2021	IN rider 60/FAC
	7/13/2021	DEK NETM accounts added to tax table
	7/1/2021	OH Gas GCR, KY Elec FAC, and ESM; IN Rider 73 (Renewable Energy)
	6/2/2021	OH Gas GCR, KY Gas GCA; KY Elec FAC, ESM and PSM; IN Rider 72 (FMCA)
	5/14/2021	Added all current DEK NETM customers to tax district sheet so they are available in the KY tax drop down list
	5/3/2021	KY elec FAC, ESM, and DSMR; KY gas DSMR; OH gas GCR, AMRP, CEP
	4/1/2021	KY elec ESM and FAC, IN rider 60/FAC, OH gas GCRs
	3/3/2021	KY elec FAC, KY elec riders ESM, PSM and DSM, KY gas GCA, OH gas GCR, IN riders 68 (MISO) and 70 (SRA)
	2/11/2021	IN Rider 62 (POLLU)
	2/2/2021	KY elec FAC, KY elec ESM, OH gas GCR
	1/4/2021	KY elec FAC, KY elec ESM, OH gas GCR, IN Rider 60 (FAC), Rider 66 (EE21)
	12/1/2020	KY elec FAC, KY elec ESM, KY elec PSM, KY gas GCR, OH gas GCR
	10/29/2020	KY elec FAC, KY elec ESM, OH gas GCR, KY elec base rate rehearing, service rendered (prorated)
	9/29/2020	KY elec FAC, KY elec ESM, OH gas GCR, IN Rider 60 (FAC), Rider 66 (EE21)
	8/28/2020	KY elec FAC, KY gas GCR, KY elec ESM and PSM, OH gas GCR
	7/30/2020	KY elec FAC, KY elec ESM, OH gas GCR and riders PIPP, UE-G
	7/29/2020	IN rate case (prorated for metered rates)
	6/30/2020	KY Elec FAC, KY Elec ESM, KY Elec DSMR (HEA adder in RS cust charge), OH gas GCR, IN Rider 60 (FAC)
	6/1/2020	KY Elec FAC, KY Elec ESM, KY Elec PSM, OH gas GCR, IN Rider 67 (CMC)
	4/30/2020	KY Elec base rates, all service rendered (prorated)
	4/30/2020	KY Elec FAC, KY Elec ESM, KY Elec DSMR, KY Gas DSMR, OH gas GCR, all bills rendered
	3/2/2020	KY Elec FAC, KY Elec ESM, KY Elec PSM, IN Rider 66A
	1/31/2020	KY Elec FAC, KY Elec ESM, OH Gas GCR, IN Rider 67 (CMC)
	1/2/2020	KY Elec FAC, KY Elec ESM, OH Gas GCR, IN Riders 60 (FAC), EE19, EE20, 67 (CMC)

Proration Factor - mid-month rate change	
Beginning Meter Read Date	1/0/1900
Ending Meter Read Date	6/22/2021
Number of Days	44369
Prorated Rate Change	N
Prorated Rate Change Date	N/A
Did proration occur within bill period?	N
Number of Days before rate change	N/A
Number of Days after rate change	N/A
Proration Factor, before rate change	1.000
Proration Factor, after rate change	1.000
Billpercycle, before rate change	06202101
Billpercycle, after rate change	06202101

checks the concatenation row in rates to look for "Prorate"
finds the windowed read date matching the concatenation of the prorated rate change

Proration Factor - Short Bill	
Prorate for Short Bill?	1/0/1900
Cycle	15
Beginning on-cycle Read Date for cycle	5/21/2021
Ending on-cycle Read Date for cycle	6/22/2021
Number of Days in Period	32
Beginning Meter Read Date	1/0/1900
Ending Meter Read Date	6/22/2021
Number of Days	44369
Proration Factor	1.000

CONFIDENTIAL PROPRIETARY TRADE SECRET

Duke Energy Kentucky - Electric Bill Calc

Cycle	15	State	KY
From Date	1/1/2020	Service	Elect
To Date	6/22/2021	Rate	RES
Bill Period	6/1/2021	Phase	0
Billingcycle, old	06/02/21	Total Bill	\$89.89
Billingcycle, new	06/02/21	KY Ceiling	-
Season	none	Actual Bill	\$89.89
LMW	0		

Metered kWh	Total OnPk	Off Pk	Total
Adjusted	844	0	844
Meter Adj Fac	0.0%		
Prostate Factor (if appl)	1.000		
Prostate Factor (old)	1.000		
Prostate Factor (new)	1.000		
Metered kW	0	0	
Dmd prorated for # days	0.00	0.00	

Customer is a NET PURCHASER - use this section for adjustment calc

Net metering	0			
Metered Channel 3 kWh	844	Total OnPk	Off Pk	Total
Adjusted	844	0	844	0
Metered Channel 3 kW	0			
Dmd prorated for # days	0.01			

Customer Charge	Step size	Usage	On Peak or Total Price	Revenue
LMR Cost Charge			12.90	12.90
Demand			0.00	0.00
1st step	0	0.00	0.00	0.00
2nd step	0	0.00	0.00	0.00
Energy			844.00	67.04
1st step	99999999	844.00	0.079431	67.04
2nd step	0	0.00	0.000000	0.00
3rd step	0	0.00	0.000000	0.00
Total Base Charges				79.94
DSM	99999999	844.00	0.002175	1.84
PSM	99999999	844.00	-0.000475	(0.40)
ESM			8.24%	6.85
credit for base fuel				0.00
Total ESM				6.85
Total Delivery Riders				\$8.29
EPC	99999999	844.00	0.001965	1.66
Total Bill				\$89.89

Not TOU Rate	Step size	Usage	Off Peak Price	Revenue
0	0	0.00	0.00	-
0	0	0	0.000000	-
99999999	0	0	0.002175	0.00
99999999	0	0	-0.000475	-0.00
99999999	0	0	8.24%	0.00
99999999	0	0	0.001965	-
Off Peak Subtotal				\$89.89
Total Off Peak Bill				\$89.89

Not Ceiling Rate	Step size	Usage	Ceiling Price	Revenue
0	0	0.00	0.00	-
0	0	0	0.000000	-
99999999	0	0	0.002175	0.00
99999999	0	0	-0.000475	-0.00
99999999	0	0	8.24%	0.00
99999999	0	0	0.001965	-
Ceiling Subtotal				\$89.89
Total Ceiling Bill				\$89.89

Not Church Rate	Step size	Usage	Church Ceiling Price	Revenue
0	0	0.00	0.00	-
99999999	0	0	0.002175	-
99999999	0	0	-0.000475	-
99999999	0	0	8.24%	0.00
99999999	0	0	0.001965	-
Church Subtotal				\$89.89
Total Church Bill				\$89.89

Customer Charge	Step size	Usage	On Peak or Total Price	Revenue
LMR Cost Charge			12.90	12.90
Demand			0.00	0.00
1st step	0	0.00	0.00	0.00
2nd step	0	0.00	0.00	0.00
Energy			844.00	67.04
1st step	99999999	844.00	0.079431	67.04
2nd step	0	0.00	0.000000	0.00
3rd step	0	0.00	0.000000	0.00
Total Base Charges				79.94
DSM	99999999	844.00	0.002175	1.84
PSM	99999999	844.00	-0.000475	(0.40)
ESM			8.24%	6.85
credit for base fuel				0.00
Total ESM				6.85
Total Delivery Riders				\$1.06
EPC	99999999	844.00	0.001965	1.66
Total Bill				\$13.96

iteration below this line

Customer Charge	Step size	Usage	On Peak or Total Price	Revenue
LMR Cost Charge			0.00	0.00
Demand			0.00	0.00
1st step	0	0.00	0.00	0.00
2nd step	0	0.00	0.00	0.00
Energy			844.00	0.00
1st step	99999999	844.00	0.000000	0.00
2nd step	0	0.00	0.000000	0.00
3rd step	0	0.00	0.000000	0.00
Total Base Charges				0.00
DSM	99999999	0.00	0.000000	0.00
PSM	99999999	0.00	0.000000	0.00
ESM			0.00%	0.00
credit for base fuel				0.00
Total ESM				0.00
Total Delivery Riders				\$0.00
EPC	99999999	844.00	0.000000	0.00
Total Bill				\$0.00

Not TOU Rate	Step size	Usage	Off Peak Price	Revenue
0	0	0.00	0.00	-
99999999	0	0	0.000000	-
99999999	0	0	0.00%	0.00
99999999	0	0	0.000000	-
Off Peak Subtotal				\$0.00
Total Off Peak Bill				\$0.00

Not Ceiling Rate	Step size	Usage	Ceiling Price	Revenue
0	0	0.00	0.00	-
0	0	0	0.000000	-
99999999	0	0	0.000000	0.00
99999999	0	0	0.000000	0.00
99999999	0	0	0.00%	0.00
99999999	0	0	0.000000	0.00
Ceiling Subtotal				\$0.00
Total Ceiling Bill				\$0.00

Not Church Rate	Step size	Usage	Church Ceiling Price	Revenue
0	0	0.00	0.00	-
99999999	0	0	0.000000	-
99999999	0	0	0.000000	0.00
99999999	0	0	0.000000	0.00
99999999	0	0	0.00%	0.00
99999999	0	0	0.000000	0.00
Church Subtotal				\$0.00
Total Church Bill				\$0.00

Duke Energy Rate RS	Usage	Price	Revenue
Jan-00 - Jun-22			
44300 Days			
Old Rate Effective Jan-00 To N/A			
Customer Charge		12.90	12.90
LMR Charge		0.00	0.00
Demand Charge		0.00	0.00
0 kWh @	0.00	0.00	0.00
0 kWh @	0.00	0.00	0.00
Energy Charge			
844 kWh @	0.079431	67.04	67.04
0 kWh @	0.000000	0.00	0.00
0 kWh @	0.000000	0.00	0.00
Elec ESM Rider		8.24%	6.85
Elec DSM Rider		0.002175	1.84
Rider PSM		-0.000475	(0.40)
844 kWh @	0.001965	1.66	1.66
Elec Fuel Adjustment			0.00
844 kWh @			0.00
Total Current Electric Charges			\$89.89

Duke Energy Rate RS	Usage	Price	Revenue
Jan-00 - Jun-22			
44300 Days			
Old Rate Effective Jan-00 To N/A			
Customer Charge		12.90	12.90
LMR Charge		0.00	0.00
Demand Charge		0.00	0.00
0 kWh @	0.00	0.00	0.00
0 kWh @	0.00	0.00	0.00
Energy Charge			
844 kWh @	0.079431	67.04	67.04
0 kWh @	0.000000	0.00	0.00
0 kWh @	0.000000	0.00	0.00
Elec ESM Rider		8.24%	6.85
Elec DSM Rider		0.002175	1.84
Rider PSM		-0.000475	(0.40)
844 kWh @	0.001965	1.66	1.66
Elec Fuel Adjustment			0.00
844 kWh @			0.00
Total Current Electric Charges			\$89.89

PreRateOld	1
PreRateNew	1
PreDays	1

17	Net TOU Rate	Off Peak	Revenue	
	Step size	Usage	Price	
4	0.00	0.00	99999999.00	-
6	0.00	0	0.000000	-
			8.24%	0.00
	99999999	0	0.001905	-
			Off Peak Subtotal	
			Total On/Off Peak Bill	\$13.96
				0.00

Net metering	G	Total kWh	Off Pk	Total	Net Dispatch
Monnet Channel 3 kWh	844	0	844		
Adjusted	0	0	0		
Metered Channel 3 kWh	0	0	0		
Demd provided for 8 days	0	0.01	0		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.00
LMS Cust Charge			0.00
Demand			0.00
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Enerov	99999999	99999999.00	7,943,099.92
1st step	0	0.00	0.00
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			7,943,112.92
DSM	99999999		#VALUE!
PSM	99999999		#VALUE!
ESM for Net charges			1.06
ESM for RS enerov			#VALUE!
ESM for non-RS enerov & demd			0.00
EFC	99999999		#VALUE!
		Original CMS Bill	\$89.89
		Correction for CMS Bill	(\$9.89)
		Net Generator Credit	#VALUE!
		Credit Adjustment	
		Credit Usage	

Select NETM acct	EBH amount	CV CITY OF COVINGTON FRANCHISE FEE	KM NTON COUNTY SCHOOL Franchise Fee-Covington	KY KENTUCKY UTILITY TAX Rate Incr for School Tax	KY KENTUCKY STATE TAX
	89.89	2.2	2.79	8.72	
		2.2			
	75.93	2.28	2.36	4.83	

Tax above should match TXSI
Taxes below should match SAG
Tax adjustment for TADJ

*To add new DER NETM accounts contact rates - Rates Job Aid - Update of Rate Calc Spreadsheets for simple rate changes and new riders.

One Month Bill Calculation Program for DE OH (Gas), DE KY and DE IN

New Rates Effective
 January cycle 8, 2022

State = KY (OH, KY or IN)	Metered Usage = 875 kWh	Cycle = 15 01 to 21
Service Type = Elect (Elect or Gas)		Start Read Date = 7/22/2021
Rate = RS (Select rate)		Stop Read Date = 7/11/2021
		Bill Period 7/11/2021
		Prorate for # Days
		Read Date 1/13/2022
		Bill Date 1/14/2022
		Window Offset
		neg # of months for test purposes
	Net Metering? Y	
	N	
	N	
	Total Bill Amount \$94.55	

Revised: 1/13/2022 CT

NOTES FOR USERS:

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- #4 Use the Clear buttons, DELETE key or enter zero to remove cell contents; DO NOT use the space bar to create a blank cell

Notes:	1/13/2022	IN Elec rider 62/Environmental Compliance; KY NETM accounts added to tax table
	1/1/2022	OH Gas rider GCR; KY elec riders FAC, ESM, DSMR; KY gas Monthly Connection Charge, Energy/Gas Delivery, WNA, DSMR; IN elec riders 60/Fuel, 66A/EE, 68/IRTO/MISO, and UTR/Utility Receipts Tax, KY NETM accounts added to tax table
	12/1/2021	OH gas GCRs; KY elec FAC, PSM and ESM, IN elec Rider 72 (FMCA), fix for KY elec DT of peak kW rounding difference from CMS, addition of new KY NETM accounts to tax district table, annual
	10/29/2021	OH gas GCRs, KY elec FAC and ESM, IN elec rider 65/TDSIC
	10/8/2021	Published including Lighting, Traffic Signal and Unmetered/Fixed Load worksheets.
	9/30/2021	KY elec FAC, ESM, OH gas GCR, IN rider 60/FAC
	9/15/2021	KY UN-Metered Base Rate Energy charge updates from rate case re-hearing
	8/31/2021	KY elec FAC, ESM, PSM, KY gas GCR, OH gas GCR, KY NETM accounts added to tax table
	8/16/2021	KY Metered Base Rate Energy charge updates from rate case re-hearing
	8/10/2021	DEK NETM accounts added to tax table
	8/2/2021	OH GCR & PIPP, KY FAC, ESM & NETM accounts added to tax table, IN Rider 67 (Credits Adjustment)
	7/29/2021	IN Rider 62 (POLU)
	7/22/2021	DEK NETM accounts added to tax table
	7/14/2021	IN rider 60/FAC
	7/13/2021	DEK NETM accounts added to tax table
	7/1/2021	OH Gas GCR, KY Elec FAC, and ESM; IN Rider 73 (Renewable Energy)
	6/2/2021	OH Gas GCR, KY Gas GCA; KY Elec FAC, ESM and PSM; IN Rider 72 (FMCA)
	5/14/2021	Added all current DEK NETM customers to tax district sheet so they are available in the KY tax drop down list
	5/3/2021	KY elec FAC, ESM, and DSMR; KY gas DSMR, OH gas GCR, AMRP, CEP
	4/1/2021	KY elec ESM and FAC, IN rider 60/FAC, OH gas GCRs
	3/3/2021	KY elec FAC, KY elec riders ESM, PSM and DSM, KY gas GCA, OH gas GCR, IN riders 68 (MISO) and 70 (SRA)
	2/1/2021	IN Rider 62 (POLU)
	2/2/2021	KY elec FAC, KY elec ESM, OH gas GCR
	1/4/2021	KY elec FAC, KY elec ESM, OH gas GCR, IN Rider 60 (FAC), Rider 66 (EE21)
	12/1/2020	KY elec FAC, KY elec ESM, KY elec PSM, KY gas GCR, OH gas GCR
	10/29/2020	KY elec FAC, KY elec ESM, OH gas GCR, KY elec base rate rehearing, service rendered (prorated)
	9/29/2020	KY elec FAC, KY elec ESM, OH gas GCR, IN Rider 60 (FAC), Rider 66 (EE21)
	8/28/2020	KY elec FAC, KY gas GCR, KY elec ESM and PSM, OH gas GCR
	7/30/2020	KY elec FAC, KY elec ESM, OH gas GCR and riders PIPP, UE-G
	7/29/2020	IN rate case (prorated for metered rates)
	6/30/2020	KY Elec FAC, KY Elec ESM, KY Elec DSMR (HEA adder in RS cust charge), OH gas GCR, IN Rider 60 (FAC)
	6/1/2020	KY Elec FAC, KY Elec ESM, KY Elec PSM, OH gas GCR, IN Rider 67 (CMC)
	4/30/2020	KY Elec base rates, all service rendered (prorated)
	4/30/2020	KY Elec FAC, KY Elec ESM, KY Elec DSMR, KY Gas DSMR, OH gas GCR, all bills rendered
	3/2/2020	KY Elec FAC, KY Elec ESM, KY Elec PSM, IN Rider 66A
	1/31/2020	KY Elec FAC, KY Elec ESM, OH Gas GCR, IN Rider 67 (CMC)
	1/2/2020	KY Elec FAC, KY Elec ESM, OH Gas GCR, IN Riders 60 (FAC), EE19, EE20, 67 (CMC)

Proration Factor - mid-month rate change	
Beginning Meter Read Date	1/0/1900
Ending Meter Read Date	7/22/2021
Number of Days	44399
Prorated Rate Change	N
Prorated Rate Change Date	N/A
Did proration occur within bill period?	N
Number of Days before rate change	N/A
Number of Days after rate change	N/A
Proration Factor, before rate change	1.000
Proration Factor, after rate change	1.000
Billpercycle, before rate change	07202101
Billpercycle, after rate change	07202101

checks the concatenation row in rates to look for "Prorate"
 finds the windowed read date matching the concatenation of the prorated rate change

Proration Factor - Short Bill	
Prorate for Short Bill?	1/0/1900
Cycle	15
Beginning on-cycle Read Date for cycle	6/22/2021
Ending on-cycle Read Date for cycle	7/22/2021
Number of Days in Period	30
Beginning Meter Read Date	1/0/1900
Ending Meter Read Date	7/22/2021
Number of Days	44399
Proration Factor	1.000

One Month Bill Calculation Program for DE OH (Gas), DE KY and DE IN

New Rates Effective
January cycle 8, 2022

State = **KY** (OH, KY or IN)
Service Type = **Elect** (Elect or Gas)
Rate = **RS** (Select rate)

Metered Usage = **735** kWh

Cycle = **15** 01 to 21

Start Read Date = **7/22/2021**

Stop Read Date = **8/20/2021**

Bill Period = **8/1/2021**

Prorate for # Days

Read Date
1/13/2022

Bill Date
1/14/2022

Window Offset

neg # of months for test purposes

Net Metering?
Y
N
N

Total Bill Amount

\$78.48

Revised: 1/13/2022 CT

NOTES FOR USERS:

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#4 Use the Clear buttons, DELETE key or enter zero to remove cell contents; DO NOT use the space bar to create a blank cell

Notes:	1/13/2022	IN Elec rider 62/Environmental Compliance; KY NETM accounts added to tax table
	1/1/2022	OH Gas rider GCR; KY elec riders FAC, ESM, DSMR; KY gas Monthly Connection Charge, Energy/Gas Delivery, WNA, DSMR; IN elec riders 60/Fuel, 66A/EE, 68/IRTO/MISO, and UTR/Utility Receipts Tax, KY NETM accounts added to tax table
	12/1/2021	OH gas GCRs; KY elec FAC, PSM and ESM, IN elec Rider 72 (FMCA), fix for KY elec DT of peak kW rounding difference from CMS, addition of new KY NETM accounts to tax district table, annual
	10/29/2021	OH gas GCRs, KY elec FAC and ESM, IN elec rider 65/TDSIC
	10/8/2021	Published including Lighting, Traffic Signal and Unmetered/Fixed Load worksheets.
	9/30/2021	KY elec FAC, ESM, OH gas GCR, IN rider 60/FAC
	9/15/2021	KY UN-Metered Base Rate Energy charge updates from rate case re-hearing
	8/31/2021	KY elec FAC, ESM, PSM, KY gas GCR, OH gas GCR, KY NETM accounts added to tax table
	8/16/2021	KY Metered Base Rate Energy charge updates from rate case re-hearing
	8/10/2021	DEK NETM accounts added to tax table
	8/2/2021	OH GCR & PIPP, KY FAC, ESM & NETM accounts added to tax table, IN Rider 67 (Credits Adjustment)
	7/29/2021	IN Rider 62 (POLU)
	7/22/2021	DEK NETM accounts added to tax table
	7/14/2021	IN rider 60/FAC
	7/13/2021	DEK NETM accounts added to tax table
	7/1/2021	OH Gas GCR, KY Elec FAC, and ESM; IN Rider 73 (Renewable Energy)
	6/2/2021	OH Gas GCR, KY Gas GCA; KY Elec FAC, ESM and PSM; IN Rider 72 (FMCA)
	5/14/2021	Added all current DEK NETM customers to tax district sheet so they are available in the KY tax drop down list
	5/3/2021	KY elec FAC, ESM, and DSMR; KY gas DSMR, OH gas GCR, AMRP, CEP
	4/1/2021	KY elec ESM and FAC, IN rider 60/FAC, OH gas GCRs
	3/3/2021	KY elec FAC, KY elec riders ESM, PSM and DSM, KY gas GCA, OH gas GCR, IN riders 68 (MISO) and 70 (SRA)
	2/1/2021	IN Rider 62 (POLU)
	2/2/2021	KY elec FAC, KY elec ESM, OH gas GCR
	1/4/2021	KY elec FAC, KY elec ESM, OH gas GCR, IN Rider 60 (FAC), Rider 66 (EE21)
	12/1/2020	KY elec FAC, KY elec ESM, KY elec PSM, KY gas GCR, OH gas GCR
	10/29/2020	KY elec FAC, KY elec ESM, OH gas GCR, KY elec base rate rehearing, service rendered (prorated)
	9/29/2020	KY elec FAC, KY elec ESM, OH gas GCR, IN Rider 60 (FAC), Rider 66 (EE21)
	8/28/2020	KY elec FAC, KY gas GCR, KY elec ESM and PSM, OH gas GCR
	7/30/2020	KY elec FAC, KY elec ESM, OH gas GCR and riders PIPP, UE-G
	7/29/2020	IN rate case (prorated for metered rates)
	6/30/2020	KY Elec FAC, KY Elec ESM, KY Elec DSMR (HEA adder in RS cust charge), OH gas GCR, IN Rider 60 (FAC)
	6/1/2020	KY Elec FAC, KY Elec ESM, KY Elec PSM, OH gas GCR, IN Rider 67 (CMC)
	4/30/2020	KY Elec base rates, all service rendered (prorated)
	4/30/2020	KY Elec FAC, KY Elec ESM, KY Elec DSMR, KY Gas DSMR, OH gas GCR, all bills rendered
	3/2/2020	KY Elec FAC, KY Elec ESM, KY Elec PSM, IN Rider 66A
	1/31/2020	KY Elec FAC, KY Elec ESM, OH Gas GCR, IN Rider 67 (CMC)
	1/2/2020	KY Elec FAC, KY Elec ESM, OH Gas GCR, IN Riders 60 (FAC), EE19, EE20, 67 (CMC)

Proration Factor - mid-month rate change	
Beginning Meter Read Date	7/22/2021
Ending Meter Read Date	8/20/2021
Number of Days	29
Prorated Rate Change	Y
Prorated Rate Change Date	8/15/2021
Did proration occur within bill period?	Y
Number of Days before rate change	24
Number of Days after rate change	5
Proration Factor, before rate change	0.828
Proration Factor, after rate change	0.172
Billpercycle, before rate change	082021unA
Billpercycle, after rate change	082021un

checks the concatenation row in rates to look for "Prorate" finds the windowed read date matching the concatenation of the prorated rate change

Proration Factor - Short Bill	
Prorate for Short Bill?	1/0/1900
Cycle	15
Beginning on-cycle Read Date for cycle	7/22/2021
Ending on-cycle Read Date for cycle	8/20/2021
Number of Days in Period	29
Beginning Meter Read Date	7/22/2021
Ending Meter Read Date	8/20/2021
Number of Days	29
Proration Factor	1.000

Duke Energy Kentucky - Electric Bill Calc

Cycle	15	State	KY
From Date	7/22/2021	Service	Elect
To Date	8/20/2021	Rate	RS
Bill Period	8/1/2021	Phase	
Billingcycle, old	082021un	Total Std Bill #	\$78.48
Billingcycle, new	082021un	KY Ceiling #	-
Season	none	KY Church #	-
LMR?	N	Actual Bill #	78.48

Total/OnPk	Off Pk	Total
Metered kWh	735	0
Adjusted	735	0
Meter Adj Fac	0.0%	
Prorate Factor (# days)	1.000	
Prorate Factor (old)	0.8280	
Prorate Factor (new)	0.1720	
Metered kW	0	0
Dmd prorated for # days	0.01	0.00

Customer Charge	Step size	Usage	On Peak or Total Price	Revenue
LMR Cust Charge			12.90	10.68
Demand			0.00	0.00
1st step	0	0.00	0.00	0.00
2nd step	0	0.00	0.00	0.00
Energy	99999999	609.00	0.079431	48.37
1st step	0	0.00	0.000000	0.00
2nd step	0	0.00	0.000000	0.00
3rd step	0	0.00	0.000000	0.00
Total Base Charges				59.05
DSM	99999999	609.00	0.002175	1.32
PSM	99999999	609.00	-0.000475	(0.29)
ESM			8.81%	5.25
credit for base fuel				0.00
Total ESM				5.25
Total Delivery Riders				\$6.28
EFC	99999999	609.00	-0.000807	(0.49)
Total Bill				\$64.84

Not TOD Rate	Usage	Off Peak Price	Revenue
Step size			
0	0.00	0.00	-
0	0	0.000000	-
99999999	0	0.002175	0.00
99999999	0	-0.000475	0.00
		8.81%	0.00
99999999	0	-0.000807	-
Off Peak Subtotal			-
Total On/Off Peak Bill			\$64.84

Not Ceiling Rate	Usage	Ceiling Price	Revenue
Step size			
0.00		0.00	-
0.00		0.00	-
0	0	0.000000	-
99999999	0	0.002175	0.00
99999999	0	-0.000475	0.00
		8.81%	0.00
99999999	0	-0.000807	-
Ceiling Subtotal			-
Total Ceiling Bill			-

Not Church Rate	Usage	Church Ceiling Price	Revenue
Step size			
0.00		0.00	-
0.00		0.00	-
0	0.000000	-	-
99999999	0	0.002175	-
99999999	0	#####	-
		8.81%	0.00
99999999	0	#####	-
Church Subtotal			-
Total Church Bill			-

Portion below this line

Customer Charge	Step size	Usage	On Peak or Total Price	Revenue
LMR Cust Charge			12.90	2.22
Demand			0.00	0.00
1st step	0	0.00	0.00	0.00
2nd step	0	0.00	0.00	0.00
Energy	99999999	126.00	0.080996	10.21
1st step	0	0.00	0.000000	0.00
2nd step	0	0.00	0.000000	0.00
3rd step	0	0.00	0.000000	0.00
Total Base Charges				12.43
DSM	99999999	126.00	0.002175	0.27
PSM	99999999	126.00	-0.000475	(0.06)
ESM			8.81%	1.10
				0.00
				1.10
Total Delivery Riders				\$1.31
EFC	99999999	126.00	-0.000807	(0.10)
Total Bill				\$13.64

Not TOD Rate	Usage	Off Peak Price	Revenue
Step size			
0	0.00	0.00	-
99999999	0	0.000000	-
99999999	0	0.002175	0.00
99999999	0	-0.000475	0.00
		8.81%	0.00
99999999	0	-0.000807	-
Off Peak Subtotal			-
Total On/Off Peak Bill			\$13.64

Not Ceiling Rate	Usage	Ceiling Price	Revenue
Step size			
0.00		0.00	-
0.00		0.00	-
0	0	0.000000	-
99999999	0	0.002175	0.00
99999999	0	-0.000475	0.00
		8.81%	0.00
99999999	0	-0.000807	-
Ceiling Subtotal			-
Total Ceiling Bill			\$0.00

Not Church Rate	Usage	Church Ceiling Price	Revenue
Step size			
0.00		0.00	-
0.00		0.00	-
0	0.000000	-	-
99999999	0	0.002175	-
99999999	0	#####	-
		8.81%	0.00
99999999	0	#####	-
Church Subtotal			-
Total Church Bill			\$0.00

Duke Energy Rate RS	Usage	Price	Revenue
Old Rate Effective Jul-22 To Aug-15			
Customer Charge		10.68	
LMR Charge		0.00	
Demand Charge		0.00	
0 kW @	0.00	0.00	
0 kW @	0.00	0.00	
Energy Charge		48.37	
609 kWh @	0.079431	0.00	
0 kWh @	0.000000	0.00	
0 kWh @	0.000000	0.00	
Elec ESM Rider	8.81%	5.25	
Elec DSM Rider	0.002175	1.32	
Rider PSM	-0.000475	(0.29)	
609 kWh @	-0.000475	(0.29)	
Elec Fuel Adjustment	-0.000807	(0.49)	64.84
609 kWh @	-0.000807	(0.49)	
Duke Energy Rate RS			
New Rate Effective Aug-15 To Aug-20			
Customer Charge		2.22	
LMR Charge		0.00	
Demand Charge		0.00	
0 kW @	0.00	0.00	
0 kW @	0.00	0.00	
Energy Charge		10.21	
126 kWh @	0.080996	0.00	
0 kWh @	0.000000	0.00	
0 kWh @	0.000000	0.00	
Elec ESM Rider	8.81%	1.10	
Elec DSM Rider	0.002175	0.27	
126 kWh @	-0.000475	(0.06)	
Rider PSM	-0.000475	(0.06)	
126 kWh @	-0.000475	(0.06)	
Elec Fuel Adjustment	-0.000807	(0.10)	13.64
126 kWh @	-0.000807	(0.10)	
Total Current Electric Charges			\$78.48

Duke Energy Rate RS	Usage	Price	Revenue
Old Rate Effective Jul-22 To Aug-15			
Demand Charge		0.00	0.00
0 kW @	0.00	0.00	
0 kW @	0.00	0.00	
Energy Charge		0.00	
0 kWh @	0.000000	0.00	
0 kWh @	0.000000	0.00	
Elec ESM Rider	8.81%	0.00	
Rider PSM	0.000000	0.00	
0 kWh @	0.000000	0.00	
Elec Fuel Adjustment	-0.000807	0.00	0.00
0 kWh @	-0.000807	0.00	
Duke Energy Rate RS			
New Rate Effective Aug-15 To Aug-20			
Demand Charge		0.00	0.00
0 kW @	0.00	0.00	
0 kW @	0.00	0.00	
Energy Charge		0.00	
0 kWh @	0.000000	0.00	
0 kWh @	0.000000	0.00	
Elec ESM Rider	8.81%	0.00	
Elec Fuel Adjustment	-0.000807	0.00	0.00
0 kWh @	-0.000807	0.00	
Total Current Electric Charges			\$78.48

ProRateOld	0.828
ProRateNew	0.172
ProDays	1

Customer is a NET PURCHASER - use this section for adjustment calc

Net metering	0			
	Total/OnPk	Off Pk	Total	Net Purchaser
Metered Channel 3 kWh	735			
Adjusted	735	0	735	0
Metered Channel 3 kW	0	0		
Dmd prorated for # days	0.00	0.00		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			
1st step	99999999	0.00	0.00
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			12.90
DSM	99999999	0.00	0.00
PSM	99999999	0.00	0.00
ESM			1.14
credit for base fuel			0.00
Total ESM			1.14
Total Deliverv Riders			\$1.14
EFC	99999999	0.00	0.00
		Total Bill	\$14.04
	Account Adjustment: Net		
	Credit Adjustment		\$64.44
	Credit Usage		735

17	Not TOD Rate	Off Peak	Revenue
Step size	Usage	Price	Revenue
4	0.00	0.00	99999999.00
6	0.00	0	0.000000
			8.81%
			0.00
	99999999	0	-0.000807
		Off Peak Subtotal	-
		Total On/Off Peak Bill	\$14.04
			0.00

Net metering	0			
	Total/OnPk	Off Pk	Total	Net Purchaser
Metered Channel 3 kWh	735	0		
Adjusted	735	0	735	
Metered Channel 3 kW	0	0		
Dmd prorated for # days	0	0		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			
1st step	99999999	99999999.00	#####
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			#####
DSM	99999999		#VALUE!
PSM	99999999		#VALUE!
ESM for flat charges			1.14
ESM for RS energy			#VALUE!
ESM for non-RS enerav & dmd			0.00
EFC	99999999		#VALUE!
		Original CMS Bill	\$78.48
		Correction for CMS Bill	(78.48)
		Net Generator Credit	#VALUE!
		Credit Adjustment	
		Credit Usage	

acct	EBH amount	BW BEECHWOOD SCHOOL TAX Rate Incr for School Tax	KY KENTUCKY UTILITY TAX Kentucky State Tax	none
	78.48	2.35	4.95	0
		Tax above should match TXSI		
		Taxing district above should match SADI		
		Tax adjustment for TADJ		
	64.44	1.93	3.98	0

*To add new DEK NETM accounts contact rates. Rates Job Aid - Update of Rate Calc Spreadsheets for simple rate changes and new riders.

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ProRateOld	1
ProRateNew	1
ProDays	1

Customer is a NET PURCHASER - use this section for adjustment calc

Net metering	0			
Metered Channel 3 kWh	355			
Adjusted	355	0	355	0
Metered Channel 3 kW	0			
Dmd prorated for # days	0.01	0.01		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			
1st step	99999999	0.00	0.00
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			12.90
DSM	99999999	0.00	0.00
PSM	99999999	0.00	0.00
ESM			0.93
credit for base fuel			0.00
Total ESM			0.93
Total Delivery Riders			\$0.93
EFC	99999999	0.00	0.00
Total Bill			\$13.83
Account Adjustment: Net			
Credit Adjustment			\$32.05
Credit Usage			355

Not TOD Rate	Step size	Usage	Off Peak Price	Revenue
17				
4	0.00	0.00	99999999.00	-
6	0.00	0	0.000000	-
			7.24%	0.00
99999999	0	0.001763		-
Off Peak Subtotal				-
Total On/Off Peak Bill				\$13.83
				0.00

Net metering	0			
Metered Channel 3 kWh	355			
Adjusted	355	0	355	0
Metered Channel 3 kW	0			
Dmd prorated for # days	0	0.01		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			
1st step	99999999	99999999.00	8,099,499.02
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			8,099,512.82
DSM	99999999		#VALUE!
PSM	99999999		#VALUE!
ESM for flat charges			0.93
ESM for RS energy			#VALUE!
ESM for non-RS energ & dmd			0.00
EFC	99999999		#VALUE!
Original CMS Bill			\$45.88
Correction for CMS Bill			(45.88)
Net Generator Credit			#VALUE!
Credit Adjustment			
Credit Usage			

Select NETM acct*	EBH amount	CV CITY OF COWINGTON FRANCHISE FEE	KN NTON COUNTY SCHOOL	KY KENTUCKY UTILITY TAX
	-45.88	Franchise Fee-Covington	Rate Inrd for School Tax	Kentucky State Tax
		1.35	1.42	2.92
		0.96	0.99	2.04

Tax above should match TXSI
Tadma district above should match SADI
Tax adjustment for TADJ

*To add new DEK NETM accounts contact rates. Rates Job Aid - Update of Rate Calc Spreadsheets for simple rate changes and new riders.

ProRateOld	1
ProRateNew	1
ProDays	1

Customer is a NET PURCHASER - use this section for adjustment calc

Net metering	0			
Metered Channel 3 kWh	120			
Adjusted	120	0	120	0
Metered Channel 3 kW	0			
Dmd prorated for # days	0.01	0.01		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			0.00
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			0.00
1st step	99999999	0.00	0.00
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			12.90
DSM	99999999	0.00	0.00
PSM	99999999	0.00	0.00
ESM			0.75
credit for base fuel			0.00
Total ESM			0.75
Total Delivery Riders			\$0.75
EFC	99999999	0.00	0.00
Total Bill			\$13.65
Account Adjustment: Net			
Credit Adjustment			\$10.30
Credit Usage			120

Not TOD Rate	Step size	Usage	Off Peak Price	Revenue
4	0.00	0.00	99999999.00	-
6	0.00	0	0.000000	-
			5.82%	0.00
99999999	0	-0.001302		-
			Off Peak Subtotal	-
			Total On/Off Peak Bill	\$13.65
				0.00

Net metering	0			
Metered Channel 3 kWh	120			
Adjusted	120	0	120	0
Metered Channel 3 kW	0			
Dmd prorated for # days	0	0.01		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			0.00
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			0.00
1st step	99999999	99999999.00	8,099,499.02
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			8,099,512.82
DSM	99999999		#VALUE!
PSM	99999999		#VALUE!
ESM for flat charges			0.75
ESM for RS energy			#VALUE!
ESM for non-RS energ & dmd			0.00
EFC	99999999		#VALUE!
Original CMS Bill			\$23.95
Correction for CMS Bill			(23.95)
Net Generator Credit			#VALUE!
Credit Adjustment			
Credit Usage			

Select NETM acct*	EBH amount	CV CITY OF COWINGTON FRANCHISE FEE	KN NTON COUNTY SCHOOL	KY KENTUCKY UTILITY TAX
	23.95	Franchise Fee-Covington	Rate Incr for School Tax	Kentucky State Tax
		0.72	0.74	1.52
		Tax above should match TXSI		
		Taxing district above should match SADI		
		Tax adjustment for TADJ		
	10.3	0.31	0.32	0.66

*To add new DEK NETM accounts contact rates. Rates Job Aid - Update of Rate Calc Spreadsheets for simple rate changes and new riders.

One Month Bill Calculation Program for DE OH (Gas), DE KY and DE IN

New Rates Effective
January cycle 8, 2022

State = **KY** (OH, KY or IN)
Service Type = **Elect** (Elect or Gas)
Rate = **RS** (Select rate)

Metered Usage = **491** kWh

Cycle = **15** 01 to 21

Start Read Date = **10/20/2021**
Stop Read Date = **11/18/2021**
Bill Period = **11/1/2021**
Prorate for # Days

Read Date
1/13/2022

Bill Date
1/14/2022

Net Metering? **Y**

N

N

Total Bill Amount

\$64.14

Window Offset
neg # of months for test purposes

Revised: 1/13/2022 CT

NOTES FOR USERS:

- #1 This spreadsheet will NOT calculate DE Ohio Electric Rates - use the ERRSP or ESP spreadsheet as appropriate for the time period you need to calculate an Ohio Electric bill.
- #2 Enter values in yellow cells on this page only.
- #3 Enter "as metered" not "as billed" values. The spreadsheet will automatically adjust to "billed" values when appropriate.
- #4 Use the Clear buttons, DELETE key or enter zero to remove cell contents; DO NOT use the space bar to create a blank cell

Notes:	1/13/2022	IN Elec rider 62/Environmental Compliance; KY NETM accounts added to tax table
	1/1/2022	OH Gas rider GCR; KY elec riders FAC, ESM, DSMR; KY gas Monthly Connection Charge, Energy/Gas Delivery, WNA, DSMR; IN elec riders 60/Fuel, 66A/EE, 68/IRTO/MISO, and UTR/Utility Receipts Tax, KY NETM accounts added to tax table
	12/1/2021	OH gas GCRs; KY elec FAC, PSM and ESM, IN elec Rider 72 (FMCA), fix for KY elec DT of peak kW rounding difference from CMS, addition of new KY NETM accounts to tax district table, annual
	10/29/2021	OH gas GCRs, KY elec FAC and ESM, IN elec rider 65/TDSIC
	10/8/2021	Published including Lighting, Traffic Signal and Unmetered/Fixed Load worksheets.
	9/30/2021	KY elec FAC, ESM, OH gas GCR, IN rider 60/FAC
	9/15/2021	KY UN-Metered Base Rate Energy charge updates from rate case re-hearing
	8/31/2021	KY elec FAC, ESM, PSM, KY gas GCR, OH gas GCR, KY NETM accounts added to tax table
	8/16/2021	KY Metered Base Rate Energy charge updates from rate case re-hearing
	8/10/2021	DEK NETM accounts added to tax table
	8/2/2021	OH GCR & PIPP, KY FAC, ESM & NETM accounts added to tax table, IN Rider 67 (Credits Adjustment)
	7/29/2021	IN Rider 62 (POLU)
	7/22/2021	DEK NETM accounts added to tax table
	7/14/2021	IN rider 60/FAC
	7/13/2021	DEK NETM accounts added to tax table
	7/1/2021	OH Gas GCR, KY Elec FAC, and ESM; IN Rider 73 (Renewable Energy)
	6/2/2021	OH Gas GCR, KY Gas GCA; KY Elec FAC, ESM and PSM; IN Rider 72 (FMCA)
	5/14/2021	Added all current DEK NETM customers to tax district sheet so they are available in the KY tax drop down list
	5/3/2021	KY elec FAC, ESM, and DSMR; KY gas DSMR, OH gas GCR, AMRP, CEP
	4/1/2021	KY elec ESM and FAC, IN rider 60/FAC, OH gas GCRs
	3/3/2021	KY elec FAC, KY elec riders ESM, PSM and DSM, KY gas GCA, OH gas GCR, IN riders 68 (MISO) and 70 (SRA)
	2/1/2021	IN Rider 62 (POLU)
	2/2/2021	KY elec FAC, KY elec ESM, OH gas GCR
	1/4/2021	KY elec FAC, KY elec ESM, OH gas GCR, IN Rider 60 (FAC), Rider 66 (EE21)
	12/1/2020	KY elec FAC, KY elec ESM, KY elec PSM, KY gas GCR, OH gas GCR
	10/29/2020	KY elec FAC, KY elec ESM, OH gas GCR, KY elec base rate rehearing, service rendered (prorated)
	9/29/2020	KY elec FAC, KY elec ESM, OH gas GCR, IN Rider 60 (FAC), Rider 66 (EE21)
	8/28/2020	KY elec FAC, KY gas GCR, KY elec ESM and PSM, OH gas GCR
	7/30/2020	KY elec FAC, KY elec ESM, OH gas GCR and riders PIPP, UE-G
	7/29/2020	IN rate case (prorated for metered rates)
	6/30/2020	KY Elec FAC, KY Elec ESM, KY Elec DSMR (HEA adder in RS cust charge), OH gas GCR, IN Rider 60 (FAC)
	6/1/2020	KY Elec FAC, KY Elec ESM, KY Elec PSM, OH gas GCR, IN Rider 67 (CMC)
	4/30/2020	KY Elec base rates, all service rendered (prorated)
	4/30/2020	KY Elec FAC, KY Elec ESM, KY Elec DSMR, KY Gas DSMR, OH gas GCR, all bills rendered
	3/2/2020	KY Elec FAC, KY Elec ESM, KY Elec PSM, IN Rider 66A
	1/31/2020	KY Elec FAC, KY Elec ESM, OH Gas GCR, IN Rider 67 (CMC)
	1/2/2020	KY Elec FAC, KY Elec ESM, OH Gas GCR, IN Riders 60 (FAC), EE19, EE20, 67 (CMC)

Proration Factor - mid-month rate change	
Beginning Meter Read Date	10/20/2021
Ending Meter Read Date	11/18/2021
Number of Days	29
Prorated Rate Change	N
Prorated Rate Change Date	N/A
Did proration occur within bill period?	N
Number of Days before rate change	N/A
Number of Days after rate change	N/A
Proration Factor, before rate change	1.000
Proration Factor, after rate change	1.000
Billpercycle, before rate change	11202101
Billpercycle, after rate change	11202101

checks the concatenation row in rates to look for "Prorate"
finds the windowed read date matching the concatenation of the prorated rate change

Proration Factor - Short Bill	
Prorate for Short Bill?	1/0/1900
Cycle	15
Beginning on-cycle Read Date for cycle	10/20/2021
Ending on-cycle Read Date for cycle	11/18/2021
Number of Days in Period	29
Beginning Meter Read Date	10/20/2021
Ending Meter Read Date	11/18/2021
Number of Days	29
Proration Factor	1.000

ProRateOld	1
ProRateNew	1
ProDays	1

Customer is a NET PURCHASER - use this section for adjustment calc

Net metering	0			
	Total/OnPk	Off Pk	Total	Net Purchaser
Metered Channel 3 kWh	491		491	0
Adjusted	491	0		
Metered Channel 3 kW	0	0		
Dmd prorated for # days	0.01	0.01		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			0.00
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			0.00
1st step	99999999	0.00	0.00
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			12.90
DSM	99999999	0.00	0.00
PSM	99999999	0.00	0.00
ESM			0.43
credit for base fuel			0.00
Total ESM			0.43
Total Delivery Riders			\$0.43
EFC	99999999	0.00	0.00
		Total Bill	\$13.33
		Account Adjustment: Net	
		Credit Adjustment	\$50.81
		Credit Usage	491

Not TOD Rate	Step size	Usage	Off Peak Price	Revenue
17				
	4	0.00	0.00	99999999.00
	6	0.00	0	0.000000
				3.33%
				0.00
				0.017734
				0.00
			Off Peak Subtotal	-
			Total On/Off Peak Bill	\$13.33
				0.00

Net metering	0			
	Total/OnPk	Off Pk	Total	Net Purchaser
Metered Channel 3 kWh	491	0	491	
Adjusted	491	0		
Metered Channel 3 kW	0	0		
Dmd prorated for # days	0	0.01		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			0.00
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			0.00
1st step	99999999	99999999.00	8,099,499.92
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			8,099,512.82
DSM	99999999		#VALUE!
PSM	99999999		#VALUE!
ESM for flat charges			0.43
ESM for RS energy			#VALUE!
ESM for non-RS energ & dmd			0.00
EFC	99999999		#VALUE!
		Original CMS Bill	\$64.14
		Correction for CMS Bill	(64.14)
		Net Generator Credit	#VALUE!
		Credit Adjustment	
		Credit Usage	

Select NETM acct*	EBH amount	CV CITY OF COWINGTON FRANCHISE FEE	KN NTON COUNTY SCHOOL	KY KENTUCKY UTILITY TAX
	64.14	Franchise Fee-Covington	Rate Incr for School Tax	Kentucky State Tax
		1.92	1.98	4.08
Tax above should match TXSI				
Taxdn district above should match SADI				
			Tax adjustment for TADJ	
	50.81	1.82	1.87	3.23

*To add new DEK NETM accounts contact rates. Rates Job Aid - Update of Rate Calc Spreadsheets for simple rate changes and new riders.

ProRateOld	1
ProRateNew	1
ProDays	1

Customer is a NET PURCHASER - use this section for adjustment calc

Net metering	0			
	Total/OnPk	Off Pk	Total	Net Purchaser
Metered Channel 3 kWh	2016			
Adjusted	2016	0	2016	0
Metered Channel 3 kW	0	0		
Dmd prorated for # days	0.01	0.01		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			
1st step	99999999	0.00	0.00
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			12.90
DSM	99999999	0.00	0.00
PSM	99999999	0.00	0.00
ESM			0.42
credit for base fuel			0.00
Total ESM			0.42
Total Delivery Riders			\$0.42
EFC	99999999	0.00	0.00
		Total Bill	\$13.32
	Account Adjustment: Net		
	Credit Adjustment		\$223.60
	Credit Usage		2016

17	Not TOD Rate	Off Peak		
	Step size	Usage	Price	Revenue
4	0.00	0.00	99999999.00	-
6	0.00	0	0.000000	-
			3.26%	0.00
	99999999	0	0.025068	-
			Off Peak Subtotal	-
			Total On/Off Peak Bill	\$13.32
				0.00

Net metering	0			
	Total/OnPk	Off Pk	Total	Net Purchaser
Metered Channel 3 kWh	2016	0		
Adjusted	2016	0	2016	
Metered Channel 3 kW	0	0		
Dmd prorated for # days	0	0.01		

	Step size	On Peak or Total Usage	Revenue
Customer Charge			12.90
LMR Cust Charge			0.00
Demand			
1st step	0.00	0.00	0.00
2nd step	0	0.00	0.00
Energy			
1st step	99999999	99999999.00	8,099,499.02
2nd step	0	0.00	0.00
3rd step	0	0.00	0.00
Total Base Charges			8,099,512.82
DSM	99999999		#VALUE!
PSM	99999999		#VALUE!
ESM for flat charges			0.42
ESM for RS energy			#VALUE!
ESM for non-RS energ & dmd			0.00
EFC	99999999		#VALUE!
		Original CMS Bill	\$236.92
		Correction for CMS Bill	(236.92)
		Net Generator Credit	#VALUE!
		Credit Adjustment	
		Credit Usage	

Select NETM acct*	EBHI amount	CV CITY OF COWINGTON FRANCHISE FEE Franchise Fee-Covington 7.11	KN NTON COUNTY SCHOOL Rate Incr for School Tax 7.32	KY KENTUCKY UTILITY TAX Kentucky State Tax 15.00
	236.92	6.71	6.91	14.23

Tax above should match TXSI
Tadua district above should match SADI
Tax adjustment for TADJ

*To add new DEK NETM accounts contact rates. Rates Job Aid - Update of Rate Calc Spreadsheets for simple rate changes and new riders.