

BEFORE

THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of Duke)
Energy Ohio, Inc., for the Annual Audit of) Case No. 23-0059-EL-RDR
Rider SCR, Rider RE, Rider RC, and Rider)
ECF.)

**DUKE ENERGY OHIO, INC.’S APPLICATION FOR AUDIT OF
RIDER SCR, RIDER RE, RIDER RC, AND RIDER ECF**

1. Duke Energy Ohio, Inc., (Duke Energy Ohio or the Company) is an Ohio corporation engaged in the business of supplying electric transmission, distribution, and generation service in Adams, Brown, Butler, Clinton, Clermont, Hamilton, Montgomery, and Warren Counties in Southwestern Ohio to approximately 402,539 customers and supplying electric transmission and distribution service to approximately 348,468 customers who receive generation service from competitive retail electric service (CRES) providers.
2. Duke Energy Ohio is a “public utility,” as defined by R.C. 4905.02 and 4905.03, and an “electric distribution company,” “electric light company,” electric supplier,” and “electric utility,” as defined by R.C. 4928.01.
3. In its Opinion and Order (Order) dated December 19, 2018, in Case No 17-1263-EL-SSO, *et al.*, the Public Utilities Commission of Ohio (Commission) issued its Order approving Duke Energy Ohio’s fourth Standard Service Offer (SSO) for the period

beginning June 1, 2018, through May 31, 2025.¹ The SSO was in the form of an electric security plan (ESP IV) in which the supply for competitive retail electric service for Duke Energy Ohio's SSO was to be procured through a competitive bidding process.² The Company's ESP IV, as approved by the Commission, was to be implemented through several formulaic yet discrete pricing components that were established as separate riders.³

4. The Commission approved the continuation of existing bypassable Rider RC and Rider RE to continue recovery of costs associated with serving the Company's SSO load and PIPP load.
5. Rider SCR was likewise continued to recover the difference between payments made to suppliers for SSO service and the amount of revenue collected from SSO customers via Riders RC and RE. Updates to Rider SCR are to be filed quarterly.
6. In ESP IV, the signatory parties to the Stipulation and Recommendation that was approved by the Commission agreed that Rider Distribution Rider – Economic Competitiveness Fund (Rider DR-ECF) would continue through the term of the ESP.
7. The Commission's Order in ESP IV approved the continuation of the Riders but did not provide additional detail regarding due process. However, the Commission provided for

¹ *In the Matter of the Application of Duke Energy Ohio, Inc., for Authority to Establish a Standard Service Offer Pursuant to Section 4928.143, Revised Code, in the Form of an Electric Security Plan, Accounting Modifications, and Tariffs for Generation Service*, Case No. 17-1263-EL-SSO, *et al.*, Opinion and Order at p. 33 (December 19, 2018) (ESP IV); and *In the Matter of Application of Duke Energy Ohio, Inc. for Authority to Establish a Standard Service Offer Pursuant to R.C. 4928.143 in the Form of an Electric Security Plan, Accounting Modifications, and Tariffs for Generation Service*, Case No. 14-841-EL-SSO, *et al.*, Entry at pg. 3 (May 13, 2015) (Commission's Entry directed the Company to file the various rider pricing components in a new rider docket using the case code RDR).

² ESP IV, Opinion and Order, p. 29 (December 19, 2018).

³ ESP IV, Opinion and Order.

review of the Company's various pricing terms during the term of the ESP III, including audits and true-ups. Therefore, the Company submits this application for review, consistent with the process that had previously been ordered by the Commission. Duke Energy Ohio hereby submits this request for the Staff's audit of specific riders, consisting of the following: 1) Supplier Cost Reconciliation Rider (Rider SCR); 2) Retail Energy Rider (Rider RE); 3) Retail Capacity Rider (Rider RC); and 4) Economic Competitiveness Fund (Rider ECF) (collectively the Riders). The calculation and audit of these four Riders are in accordance with prior similar filings.

8. In support of this filing, Duke Energy Ohio is submitting the work papers and documents that support the calculation of these Riders:
 - a. Attachment A supports the calculation of the quarterly rates effective in calendar year 2022 for Rider SCR. Attachment A contains confidential, proprietary, trade secret information and is therefore attached in redacted form. The confidential version of Attachment A is being filed, contemporaneously herewith, under seal with the Commission, together with a motion for a protective order.
 - b. Attachment B supports the calculation for Rider DR-ECF for calendar year 2022.
 - c. Attachments C-1 and C-2 support the calculation of Rider RE and Rider RC for the June 1, 2022 – May 31, 2023 delivery period.

Therefore, Duke Energy Ohio respectfully requests that the Commission review and audit Duke Energy Ohio's Riders SCR, RE, RC, and DR-ECF.

Respectfully submitted,

DUKE ENERGY OHIO, INC.

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Duke Energy Ohio
 Supplier Cost Reconciliation
 Summary of SSO Supplier Costs/Revenue
 Effective for the Period January 2022 through March 2022

Line Description	Aug-21	Sep-21	Oct-21
1 Beginning Balance	\$ [REDACTED]		
2			
3 Revenue Associated with Riders RE and RC	20,510,841.49	16,536,047.17	13,672,003.26
4 less: FES PIPP included in RC & RE			
5 Net RC / RE Revenue including CAT Tax	20,510,841.49	16,536,047.17	13,672,003.26
6 less: CAT tax	53,328.64	42,994.09	35,547.51
7 Net RC / RE Revenue excluding CAT Tax	20,457,512.84	16,493,053.08	13,636,455.75
8			
9 Cost of Supplying Generation Service	19,997,539.90	17,195,536.12	13,054,973.57
10 less: FES PIPP Payment			
11 audit correction	-	-	-
12 Auction Expenses	[REDACTED]		
13 Net Meter Excess Generation Expense	[REDACTED]		
14 Curtailment Energy Credit	-	-	-
15 Audit Fees	-	-	-
16 Net expense for current month	\$ [REDACTED]		
17			
18 Net (revenue) / expense for current month	\$ [REDACTED]		
19			
20 Revenue Associated with Rider SCR	(302,927.73)	(232,702.70)	(189,722.07)
21 less: FES PIPP included in SCR			
22 Net SCR Revenue including CAT Tax	(302,927.73)	(232,702.70)	(189,722.07)
23 less: CAT tax	(787.62)	(605.03)	(493.28)
24 Net SCR Revenue excluding CAT Tax	(302,140.11)	(232,097.67)	(189,228.79)
25			
26 (Over) / Under Recovery for the month	\$ [REDACTED]		
27			
28 Ending Balance before interest	\$ [REDACTED]		
29 Applicable Interest for the month @ 5.32% ,@ 5.16% beg. Jan '19	\$ [REDACTED]		
30 Ending Balance	\$ [REDACTED]		
31 Projected Non-Switched Kwh Sales for Twelve Months ended December 2022			3,870,103,843
32 CAT Tax Rate			0.0026068
33 Rider SCR Charge (per Kwh)			\$ (0.000627)
34			
35			
36 Non-Bypassable Threshold Calculation			
37 (Over) / Under Recovery Balance			\$ (2,420,664.14)
38 Total SSO Revenue (Riders RE, RC, AER-R & RECON)			\$ 184,213,207.21
39 Threshold Percentage			10%
40 Threshold Amount (Line 18 * Line 19)			\$ 18,421,320.72
41 Variance			\$ -
42 Rider SCR Bypassable Yes / No			YES

Duke Energy Ohio
Supplier Cost Reconciliation
Summary of SSO Supplier Costs/Revenue
Effective for the Period April 2022 through June 2022

Line Description	Nov-21	Dec-21	Jan-22
1 Beginning Balance	\$		
2			
3 Revenue Associated with Riders RE and RC	14,526,312.36	16,308,090.55	20,520,581.82
4 less: FES PIPP included in RC & RE			
5 Net RC / RE Revenue including CAT Tax	14,526,312.36	16,308,090.55	20,520,581.82
6 less: CAT tax	37,768.74	42,401.40	53,353.97
7 Net RC / RE Revenue excluding CAT Tax	14,488,543.62	16,265,689.15	20,467,227.85
8			
9 Cost of Supplying Generation Service	10,475,571.41	14,716,952.04	19,300,244.03
10 less: FES PIPP Payment			
11 audit correction			
12 Auction Expenses			
13 Net Meter Excess Generation Expense			
14 Curtailment Energy Credit			
15 Audit Fees	-	-	-
16 Net expense for current month	\$		
17			
18 Net (revenue) / expense for current month	\$		
19			
20 Revenue Associated with Rider SCR	(207,738.41)	(234,687.16)	(270,832.64)
21 less: FES PIPP included in SCR			
22 Net SCR Revenue including CAT Tax	(207,738.41)	(234,687.16)	(270,832.64)
23 less: CAT tax	(540.12)	(610.19)	(704.17)
24 Net SCR Revenue excluding CAT Tax	(207,198.28)	(234,076.97)	(270,128.47)
25			
26 (Over) / Under Recovery for the month	\$		
27			
28 Ending Balance before interest	\$		
29 Applicable Interest for the month @ 5.32% ,@ 5.16% beg. Jan '19			
30 Ending Balance	\$		
31 Projected Non-Switched Kwh Sales for Twelve Months ended March 2023			3,883,059,145
32 CAT Tax Rate			0.0026068
33 Rider SCR Charge (per Kwh)			\$ (0.002119)
34			
35			
36 Non-Bypassable Threshold Calculation			
37 (Over) / Under Recovery Balance			\$ (8,208,237.98)
38 Total SSO Revenue (Riders RE, RC, AER-R & RECON)			\$ 191,836,214.02
39 Threshold Percentage			10%
40 Threshold Amount (Line 18 * Line 19)			\$ 19,183,621.40
41 Variance			\$ -
42 Rider SCR Bypassable Yes / No			YES

Duke Energy Ohio
 Supplier Cost Reconciliation
 Summary of SSO Supplier Costs/Revenue
 Effective for the Period July 2022 through September 2022

Line Description	Feb-22	Mar-22	Apr-22
1 Beginning Balance	\$		
2			
3 Revenue Associated with Riders RE and RC	18,788,083.74	14,854,296.15	13,049,072.38
4 less: FES PIPP included in RC & RE			
5 Net RC / RE Revenue including CAT Tax	18,788,083.74	14,854,296.15	13,049,072.38
6 less: CAT tax	48,849.44	38,621.50	33,927.88
7 Net RC / RE Revenue excluding CAT Tax	18,739,234.31	14,815,674.65	13,015,144.50
8			
9 Cost of Supplying Generation Service	18,987,903.79	16,177,977.14	13,047,759.15
10 less: FES PIPP Payment			
11 audit correction	-	-	-
12 Auction Expenses			
13 Net Meter Excess Generation Expense			
14 Curtailment Energy Credit			
15 Audit Fees	-	-	-
16 Net expense for current month	\$		
17			
18 Net (revenue) / expense for current month	\$		
19			
20 Revenue Associated with Rider SCR	(252,971.37)	(347,758.86)	(557,364.09)
21 less: FES PIPP included in SCR			
22 Net SCR Revenue including CAT Tax	(252,971.37)	(347,758.86)	(557,364.09)
23 less: CAT tax	(657.73)	(904.18)	(1,449.16)
24 Net SCR Revenue excluding CAT Tax	(252,313.64)	(346,854.68)	(555,914.93)
25			
26 (Over) / Under Recovery for the month	\$		
27			
28 Ending Balance before interest	\$		
29 Applicable Interest for the month @ 5.32% ,@ 5.16% beg. Jan '19			
30 Ending Balance	\$		
31 Projected Non-Switched Kwh Sales for Twelve Months ended June 2023			3,769,764,689
32 CAT Tax Rate			0.0026068
33 Rider SCR Charge (per Kwh)			\$ (0.001397)
34			
35			
36 Non-Bypassable Threshold Calculation			
37 (Over) / Under Recovery Balance			\$ (5,251,542.77)
38 Total SSO Revenue (Riders RE, RC, AER-R & RECON)			\$ 196,021,458.96
39 Threshold Percentage			10%
40 Threshold Amount (Line 18 * Line 19)			\$ 19,602,145.90
41 Variance			\$ -
42 Rider SCR Bypassable Yes / No			YES

Duke Energy Ohio
Supplier Cost Reconciliation
Summary of SSO Supplier Costs/Revenue
Effective for the Period October 2022 through December 2022

Line Description	May-22	Jun-22	Jul-22
1 Beginning Balance	\$		
2			
3 Revenue Associated with Riders RE and RC	17,616,928.74	23,972,616.11	26,744,772.66
4 less: FES PIPP included in RC & RE			
5 Net RC / RE Revenue including CAT Tax	17,616,928.74	23,972,616.11	26,744,772.66
6 less: CAT tax	45,804.41	62,329.34	69,537.00
7 Net RC / RE Revenue excluding CAT Tax	17,571,124.33	23,910,286.77	26,675,235.65
8			
9 Cost of Supplying Generation Service	16,655,407.12	40,911,793.68	22,177,935.63
10 less: FES PIPP Payment			
11 audit correction			
12 Auction Expenses			
13 Net Meter Excess Generation Expense			
14 Curtailment Energy Credit			
15 Audit Fees	-	-	-
16 Net expense for current month	\$		
17			
18 Net (revenue) / expense for current month	\$		
19			
20 Revenue Associated with Rider SCR	(762,156.15)	(721,845.67)	(571,351.79)
21 less: FES PIPP included in SCR			
22 Net SCR Revenue including CAT Tax	(762,156.15)	(721,845.67)	(571,351.79)
23 less: CAT tax	(1,981.62)	(1,876.81)	(1,485.53)
24 Net SCR Revenue excluding CAT Tax	(760,174.52)	(719,968.85)	(569,866.26)
25			
26 (Over) / Under Recovery for the month	\$		
27			
28 Ending Balance before interest	\$		
29 Applicable Interest for the month @ 5.32% ,@ 5.16% beg. Jan '19			
30 Ending Balance	\$		
31 Projected Non-Switched Kwh Sales for Twelve Months ended September 2023			3,806,892,268
32 CAT Tax Rate			0.0026068
33 Rider SCR Charge (per Kwh)			\$ 0.002251
34			
35			
36 Non-Bypassable Threshold Calculation			
37 (Over) / Under Recovery Balance			\$ 8,547,723.77
38 Total SSO Revenue (Riders RE, RC, AER-R & RECON)			\$ 213,424,036.72
39 Threshold Percentage			10%
40 Threshold Amount (Line 18 * Line 19)			\$ 21,342,403.67
41 Variance			\$ -
42 Rider SCR Bypassable Yes / No			YES

Duke Energy Ohio Electric
Calculation of Economic Competitiveness Fund Rate

Line	Description	Amount	Annual Base Distribution Revenues ⁽¹⁾	Unit Rate % of Base Distribution
1	True Up ECF Balance through April 2021	\$2,710,742		
2	Actual ECF Balance May 2021 - March 2022	<u>\$853,963</u>		
4	Calculated ECF Rate	<u>\$3,564,705</u>	\$452,055,948	0.7886%
5	CAT Tax			1.0026068
6	Rider ECF Rate including CAT Tax			0.7907%

(1) Total retail distribution revenue from Stipulation Attachment D as filed and approved in Case No. 17-32-EL-AIR, et al. less transmission and miscellaneous revenue.

Duke Energy Ohio
 Calculation of Rider ECF Rates

	April 2021	True Up Balance	May 2021	June 2021	July 2021	August 2021	September 2021	October 2021	November 2021	December 2021	January 2022	February 2022	March 2022	Actual Total	Grand Total
1 Monthly Recovery	\$56,798	\$2,710,742	\$90,243	\$89,155	\$68,142	\$59,637	\$72,860	\$98,924	\$135,227	\$84,310	\$39,918	\$60,714	\$54,833	\$853,963	\$853,963

Duke Energy Ohio
Summary of Monthly Recovery

	Actual												
	May 2021	June 2021	July 2021	August 2021	September 2021	October 2021	November 2021	December 2021	January 2022	February 2022	March 2022	Total	To Be Collected
Customer 1												\$0.00	\$0.00
Customer 2												\$0.00	\$0.00
Customer 3												\$0.00	\$0.00
Customer 4												\$0.00	\$0.00
Customer 5												\$0.00	\$0.00
Customer 6												\$0.00	\$0.00
Total Monthly OEG Payments	\$300,300.00	\$310,310.00	\$323,400.00	\$316,814.49	\$327,412.55	\$307,608.97	\$334,180.00	\$315,748.94	\$291,272.81	\$314,571.84	\$268,456.22	\$3,410,075.82	\$34,005,223.69
Trade Arrangement												\$0.00	\$867,704.58
Monthly PJM Payment												\$0.00	\$517,789.22
Total Monthly Payments	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,385,493.80
ECF Rider Revenue	\$210,057.42	\$221,154.73	\$255,258.46	\$257,177.12	\$254,552.32	\$208,685.37	\$198,953.05	\$231,438.91	\$251,354.41	\$253,857.78	\$213,623.33	\$2,556,112.90	\$29,055,024.93
Monthly Recovery	\$90,242.58	\$89,155.27	\$68,141.54	\$59,637.37	\$72,860.23	\$98,923.60	\$135,226.95	\$84,310.03	\$39,918.40	\$60,714.06	\$54,832.89	\$853,962.92	\$3,564,704.96

Duke Energy Ohio
Methodology for Calculating Average Riders RC and RE

112.77

Month	Auction 1			Auction 2			Auction 3	Auction 4	Auction 5	Auction 6	Auction 7	Auction 8	Auction 9	Auction 10	Auction 11	Auction 12	Avg Auction Price for Delivery Period			
	Jun 18-May 21	Jun 18-May 20	Jun 18-May 19	Jun 18-May 21	Jun 18-May 20	Jun 18-May 19	Jun 19-May 22	Jun 19-May 22	Jun 20-May 22	Jun 20-May 22	Jun 21-May 22	Jun 21-May 22	Jun 21-May 22	Jun 22-May 23	Jun 22-May 24	Jun 23-May 24	Jun 23-May 24	Total ⁽¹⁾	RC ⁽²⁾	RE
	17%	17%	16%	17%	17%	16%	16%	16%	17%	17%	17%	17%	50%	50%	17%	17%				
Auction 1	Feb-18																			
Auction 2	Feb-18																			
	Jun-18	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										\$50.31	\$14.64	\$35.68	
	Jul-18	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										50.31	\$14.64	35.68	
Auction 3	Aug-18	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										50.31	\$14.64	35.68	
	Sep-18	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										50.31	\$14.64	35.68	
	Oct-18	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										50.31	\$14.64	35.68	
	Nov-18	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										50.31	\$14.64	35.68	
	Dec-18	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										50.31	\$14.64	35.68	
	Jan-19	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										50.31	\$14.64	35.68	
Auction 4	Feb-19	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										50.31	\$14.64	35.68	
	Mar-19	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										50.31	\$14.64	35.68	
	Apr-19	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										50.31	\$14.64	35.68	
	May-19	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87										50.31	\$14.64	35.68	
	Jun-19	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
	Jul-19	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
Auction 5	Aug-19	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
	Sep-19	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
	Oct-19	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
	Nov-19	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
	Dec-19	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
	Jan-20	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
Auction 6	Feb-20	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
	Mar-20	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
	Apr-20	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
	May-20	\$48.75	\$49.27		\$49.71	\$49.48	\$47.66	\$48.12									48.85	7.69	41.16	
	Jun-20	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
	Jul-20	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
Auction 7	Aug-20	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
	Sep-20	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
	Oct-20	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
	Nov-20	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
	Dec-20	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
Auction 8	Jan-21	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
	Feb-21	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
	Mar-21	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
	Apr-21	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
	May-21	\$48.75	\$49.27		\$49.71	\$47.66	\$48.12	\$44.21	41.14								46.57	9.11	37.47	
	Jun-21				49.71		\$47.66	\$48.12	\$44.21	41.14	45.85	46.00					45.45	13.12	32.33	
	Jul-21				\$47.66		\$48.12	\$44.21	41.14	45.85	46.00						45.45	13.12	32.33	
Auction 9	Aug-21				\$47.66		\$48.12	\$44.21	41.14	45.85	46.00						45.45	13.12	32.33	
	Sep-21				\$47.66		\$48.12	\$44.21	41.14	45.85	46.00						45.45	13.12	32.33	
	Oct-21				\$47.66		\$48.12	\$44.21	41.14	45.85	46.00						45.45	13.12	32.33	
	Nov-21				\$47.66		\$48.12	\$44.21	41.14	45.85	46.00						45.45	13.12	32.33	
	Dec-21				\$47.66		\$48.12	\$44.21	41.14	45.85	46.00						45.45	13.12	32.33	
Auction 10	Jan-22				\$47.66		\$48.12	\$44.21	41.14	45.85	46.00						45.45	13.12	32.33	
	Feb-22				\$47.66		\$48.12	\$44.21	41.14	45.85	46.00						45.45	13.12	32.33	
	Mar-22				\$47.66		\$48.12	\$44.21	41.14	45.85	46.00						45.45	13.12	32.33	
	Apr-22				\$47.66		\$48.12	\$44.21	41.14	45.85	46.00						45.45	13.12	32.33	
	May-22				\$47.66		\$48.12	\$44.21	41.14	45.85	46.00						45.45	13.12	32.33	
	Jun-22											47.99	64.78				56.39	5.51	50.87	
	Jul-22											47.99	64.78				56.39	5.51	50.87	
Auction 11	Aug-22											47.99	64.78				56.39	5.51	50.87	
	Sep-22											47.99	64.78				56.39	5.51	50.87	
	Oct-22											47.99	64.78				56.39	5.51	50.87	
	Nov-22											47.99	64.78				56.39	5.51	50.87	
	Dec-22											47.99	64.78				56.39	5.51	50.87	
Auction 12	Jan-23											47.99	64.78				56.39	5.51	50.87	
	Feb-23											47.99	64.78				56.39	5.51	50.87	
	Mar-23											47.99	64.78				56.39	5.51	50.87	
	Apr-23											47.99	64.78				56.39	5.51	50.87	
	May-23											47.99	64.78				56.39	5.51	50.87	
	Jun-23																0.00	0.00	-	
	Jul-23																0.00	0.00	-	
	Aug-23																0.00	0.00	-	
	Sep-23																0.00	0.00	-	
	Oct-23																0.00	0.00	-	
	Nov-23																0.00	0.00	-	
	Dec-23																0.00	0.00	-	
	Jan-24																0.00	0.00	-	
	Feb-24																0.00	0.00	-	
	Mar-24																0.00	0.00	-	
	Apr-24																0.00	0.00	-	
	May-24																0.00	0.00	-	

Duke Energy Ohio
Convert Capacity and Energy Prices for Proposed Delivery Periods

Period	Methodology for Calculating Average Price for Rider RC					
	Underlying Capacity Price		Days in Period	Capacity Cost Total Retail ⁽³⁾	Projected MWh in Period ⁽⁴⁾	Average Capacity Price ⁽⁵⁾
	Demand (MW) ⁽¹⁾	FZCP Per MW-Day ⁽²⁾				
Jun '18 - May '19	5,199	\$164.70	365	\$312,528,461	21,354,158	\$14.64
Jun '19 - May '20	5,206	\$98.07	366	\$186,847,828	24,305,042	\$7.69
Jun '20 - May '21	5,072	\$104.50	365	\$193,458,760	21,244,531	\$9.11
Jun '21 - May '22	5,191	\$142.16	365	\$269,357,873	20,527,421	\$13.12
Jun '22 - May '23	5,091	\$59.75	365	\$111,019,623	20,139,407	\$5.51
Jun '23 - May '24						

- Note: ⁽¹⁾ Reliability Obligation as reported to PJM.
⁽²⁾ PJM's Final Zonal Capacity Price at load zone.
⁽³⁾ Estimated MWh sales, grossed up for T & D losses. Assumes no switching.

TO PAGE 1

INCREASED RETAIL MWH BY T&D LOSSES FROM PAGE 6

Duke Energy Ohio
 Allocations of Capacity Costs for Rate Design - June 2022 - May 2023

No	Description	Allocation of Rider RC Revenue Requirement			
		Percent of Total From Page 3a	Allocated \$	Allocated \$ Plus CAT ⁽²⁾	PJM 5CP Demand ⁽¹⁾ From Page 3a
<i>Rate Schedule:</i>					
1	Residential (RS, TD, ORH)	47.90%	\$53,182,176	\$53,320,811	1,760,306
3	Secondary Distribution - Small (DM)	3.77%	\$4,181,628	\$4,192,529	138,410
5	Secondary Distribution (DS)	29.62%	\$32,881,627	\$32,967,343	1,088,367
6	Primary Distribution (DP)	8.57%	\$9,516,625	\$9,541,433	314,996
7	Transmission Voltage (TS)	10.09%	\$11,200,938	\$11,230,137	370,746
8	Lighting	0.05%	\$56,628	\$56,775	1,874
9	Total	100.00%	\$111,019,623	\$111,309,029	3,674,699

From Page 2

⁽¹⁾ Class demand at the retail level at the time of the five PJM peaks.

⁽²⁾ CAT factor is 1.0026068.

DUKE ENERGY OHIO

Coincident Demand (CD) at PJM peak hours, per rate class for Ohio
 Reported at "Customer Meter Level" (--without transmission & distribution losses--)
 Reported at KW level

OHIO	RS	DS	DP	TS	DM	EH*	TL (Traffic Lighting)
	Residential	Distribution Secondary	Distribution Primary	Transmission Service	Small Commercial	Electric Heat (DS)	Calculated below
	CD in KW @ PJM peak hr	CD in KW @ PJM peak hr	CD in KW @ PJM peak hr	CD in KW @ PJM peak hr	CD in KW @ PJM peak hr	CD in KW @ PJM peak hr	CD in KW @ PJM peak hr
Year 2021							
PJM Peak Date/Time (Hour Ending)**							
6-29-21 @ 5pm	1,767,284	1,090,213	318,542	403,435	146,466	n/a	n/a
7-6-21 @ 5pm	1,718,808	1,051,282	306,521	325,942	124,115	n/a	n/a
8-12-21 @ 5pm	1,788,593	1,113,645	324,146	360,436	145,005	n/a	n/a
8-24-21 @ 6pm	1,895,763	1,052,219	304,046	390,600	132,268	n/a	n/a
8-26-21 @ 4pm	1,631,081	1,134,476	321,725	373,318	144,195	n/a	n/a
Average	1,760,306	1,088,367	314,996	370,746	138,410		1,874
Percent	47.90%	29.62%	8.57%	10.09%	3.77%	0.00%	0.05%

Notes:

Midwest rates are not segregated by Commercial & Industrial customers.
 *EH: October thru May only. During summer months, accounts are represented in DS class.
 Traffic lights operate 24 hours per day.

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CALCULATION OF TRAFFIC LIGHTING COINCIDENT DEMAND

COMPANY	1
SERV	E

Sum of USAGE	RATECODE	
MONTH	TL	Grand Total
Jun-21	874,974	874,974
Jul-21	1,606,407	1,606,407
Aug-21	1,567,206	1,567,206
Grand Total	4,048,587	4,048,587

Average kWh 1,349,529
 Average kW 1,874

DUKE ENERGY OHIO
JUNE 2022 - MAY 2023 CAPACITY PRICES FROM AUCTION⁽¹⁾

	June 2022 - May 2023 Forecast			June 2022 - May 2023			Forecast June 22 - May 23 7,065,455,118	Case No. 17-0032-EL-AIR 1,834,193,305
	kWh; kW; kVA	RC Revenue June 2021 - May 2022 Rates	Allocation Factor	Allocated Cap Cost	Allocated Revenue	Rates (\$/kWh; kW; kVA)		
Rates RS, RS3P, and RSLI, Residential Service				\$53,320,811				
Summer, First 1000 kWh	1,811,194,796	\$35,433,866	26.951%		\$14,370,432	\$0.007934		1,834,193,305
Summer, Additional kWh	782,507,349	15,308,776	11.644%		6,208,572	\$0.007934		792,443,608
Winter, First 1000 kWh	3,393,326,872	\$66,386,540	50.493%		26,923,288	\$0.007934		3,436,415,256
Winter, Additional kWh	1,078,426,102	12,635,711	9.611%		5,124,694	\$0.004769		1,092,119,930
Rate ORH, Optional Residential Service							9,187,643	
Summer, First 1000 kWh	1,042,460	\$12,685	0.010%		\$5,144	\$0.004935		667,687
Summer, Additional kWh	767,420	9,338	0.007%		3,787	\$0.004935		491,526
Summer, kWh greater than 150 times demand	597,200	7,267	0.006%		2,947	\$0.004935		382,501
Winter, First 1000 kWh	2,386,755	29,042	0.022%		11,779	\$0.004935		1,528,696
Winter, Additional kWh	2,827,959	18,368	0.014%		7,449	\$0.002634		1,811,283
Winter, kWh greater than 150 times demand	1,565,849	6,012	0.005%		2,437	\$0.001557		1,002,913
Rate TD, Optional Time-of-Day Rate							254,576	
Summer, On-Peak kWh	59,343	\$1,687	0.001%		\$684	\$0.011529		64,197
Summer, Off-Peak kWh	29,120	198	0.000%		80	\$0.002761		31,502
Winter, On-Peak kWh	116,100	2,916	0.002%		1,183	\$0.010186		125,596
Winter, Off-Peak kWh	50,013	342	0.000%		139	\$0.002773		54,104
Rate TD-13, Optional Time-of-Day Rate								
Summer, On-Peak kWh		\$0			-	-		
Winter, On-Peak kWh		\$0			-	-		
Off-Peak kWh		\$0			-	-		
Rate CUR, (Rev. Class 01, 02, 04, 16 & 18 only)							87,987,092	
Summer, First 1000 kWh	19,393,910	\$378,343	0.288%		\$153,439	\$0.007934		19,257,516
Summer, Additional kWh	6,780,721	132,280	0.101%		53,647	\$0.007934		6,733,033
Winter, First 1000 kWh	44,039,144	859,157	0.653%		348,417	\$0.007934		43,729,425
Winter, Additional kWh	17,773,318	253,162	0.193%		102,692	\$0.004769		17,648,322
Rate DS, Secondary Distribution Voltage				\$32,967,343			6,096,082,796	
First 150 kWh per kW	2,631,276,128	\$71,600,812	87.860%		\$28,965,065	\$0.011008		2,822,417,485
Next 150 kWh per kW	2,107,083,214	6,880,834	8.198%		2,702,634	\$0.001283		2,260,146,111
Next 150 kWh per kW	1,067,475,474	1,665,889	2.044%		673,911	\$0.000620		1,166,471,949
Additional kWh	270,247,979	136,354	0.167%		55,160	\$0.000204		289,879,353
Rate GS-FL, Optional Unmetered							29,927,353	
kWh Greater Than or Equal to 540 Hours	29,867,710	\$364,025	0.447%		147,261	\$0.004930		29,616,017
kWh Less Than 540 Hours	59,643	863	0.001%		349	\$0.005853		59,140
Rate SFL-ADPL, Optional Unmetered								62,400
All kWh	62,737	\$6,368	0.008%		2,576	\$0.004930		62,400
Rate EH, Optional Electric Space Heating								61,811,389
All kWh	61,749,450	\$1,039,184	1.275%		420,387	\$0.006808		61,811,389
Rate DM, Secondary Dist. Service, Small				\$4,192,529			663,636,984	
Summer, First 2800 kWh	199,865,653	\$2,472,015	27.228%		\$1,141,537	\$0.006458		169,372,647
Summer, Next 3200 kWh	38,193,026	481,116	5.299%		\$222,172	\$0.006458		32,366,011
Summer, Additional kWh	10,767,061	55,589	0.612%		\$25,670	\$0.002384		9,124,358
Winter, First 2800 kWh	356,024,633	5,489,327	60.462%		\$2,534,883	\$0.006458		301,706,839
Winter, Next 3200 kWh	45,987,476	508,320	5.599%		\$234,734	\$0.006458		38,971,281
Winter, Additional kWh	12,799,135	72,615	0.800%		\$33,532	\$0.002620		10,846,403
Rate DP, Service at Primary Dist. Voltage				\$9,541,433			2,009,815,546	
First 150 kWh per kW	664,763,271	\$21,499,158	87.828%		\$8,380,083	\$0.012606		719,824,292
Next 150 kWh per kW	631,847,977	1,936,510	7.911%		754,826	\$0.001195		684,182,690
Next 150 kWh per kW	507,491,058	910,754	3.721%		355,000	\$0.000700		549,525,535
Additional kWh	205,713,241	132,187	0.540%		51,525	\$0.000250		222,752,060
Rate TS, Service at Transmission Voltage				\$11,230,137			3,079,444,835	
First 150 kWh per kVA	849,825,032	\$19,705,825	84.181%		\$9,453,586	\$0.011124		906,663,393
Next 150 kWh per kVA	820,025,043	2,138,865	9.137%		1,026,090	\$0.001251		874,870,309
Next 150 kWh per kVA	778,759,330	1,200,113	5.127%		575,737	\$0.000739		830,844,644
Additional kWh	630,835,430	364,209	1.556%		174,724	\$0.000277		673,027,235
Rate TL, Traffic Lighting Service				\$56,775				13,158,928
All kWh	13,454,617	\$14,113	11.436%		\$6,493	\$0.000483		13,158,928
Rate SL, Street Lighting Service								37,328,354
Rate OL, Outdoor Lighting Service	32,475,730	\$62,988	51.039%		\$28,977	\$0.000524		37,328,354
Rate NSU, Street Lighting	17,164,070	\$33,131	26.846%		15,242	\$0.000524		20,287,810
Rate NSP, Private Outdoor Lighting	805,917	\$1,663	1.348%		765	\$0.000524		954,028
Rate SE, Street Lighting Service	1,194,713	\$2,163	1.753%		995	\$0.000524		1,317,264
All kWh	4,569,162	\$8,053	6.526%		3,705	\$0.000524		4,829,947
Rate SC, Street Lighting							17,121,971	
Energy Only - All kWh	16,726,898	\$230	0.186%		\$106	\$0.000524		17,065,355
Units - All kWh	395,073	273	0.221%		126	\$0.000524		403,067
Rate UOLS, Unmetered Outdoor Lighting								18,658,676
All kWh	22,693,441	\$797	0.646%		\$367	\$0.000524		18,658,676
Totals	19,213,083,751	\$270,060,035		\$111,309,029	\$111,309,028			20,017,245,370

Note: ⁽¹⁾ Final figures include applicable CAT.

DUKE ENERGY OHIO
JUN 2022 - MAY 2023 RETAIL ENERGY RATES CONVERTED FROM AUCTION PRICE

	June 2022 - May 2023 Forecast			June 1, 2022 - May 31, 2023		
	kWh; kW; kVA	RE Revenue June 2021 - May 2022 Rates	Allocation Factor	Revenue Requirement Plus Losses & CAT	Allocated Revenue	Rates (\$/kWh; kW; kVA)
Rates RS, RS3P, and RSLI, Residential Service				\$384,886,147		
Summer, First 1000 kWh	1,811,194,796	\$65,665,561	26.185%		\$100,782,137	\$0.056898
Summer, Additional kWh	782,507,349	\$30,572,267	12.191%		46,921,679	0.056898
Winter, First 1000 kWh	3,393,326,872	\$125,640,116	50.100%		192,829,838	0.056898
Winter, Additional kWh	1,078,426,102	\$25,586,428	10.203%		39,269,517	0.036414
Rate ORH, Optional Residential Service						
Summer, First 1000 kWh	1,042,460	\$24,474	0.010%		\$37,562	0.037745
Summer, Additional kWh	767,420	\$19,686	0.008%		30,214	0.037745
Summer, kWh greater than 150 times demand	597,200	\$14,161	0.006%		21,735	0.037745
Winter, First 1000 kWh	2,386,755	\$59,575	0.024%		91,434	0.037745
Winter, Additional kWh	2,827,959	\$45,400	0.018%		69,679	0.024639
Winter, kWh greater than 150 times demand	1,565,849	\$23,809	0.009%		36,541	0.023336
Rate TD, Optional Time-of-Day Rate						
Summer, On-Peak kWh	59,343	\$8,768	0.003%		\$14,957	\$0.252046
Summer, Off-Peak kWh	29,120	\$1,358	0.001%		1,584	0.054389
Winter, On-Peak kWh	116,100	\$12,654	0.005%		20,422	0.175898
Winter, Off-Peak kWh	50,013	\$2,197	0.001%		1,372	0.027433
Rate TD-13, Optional Time-of-Day Rate						
Summer, On-Peak kWh			0.000%			
Winter, On-Peak kWh			0.000%			
Off-Peak kWh			0.000%			
Rate CUR, (Rev. Class 01, 02, 04, 16 & 18 only)						
Summer, First 1000 kWh	19,393,910	\$703,403	0.280%		\$1,079,569	\$0.056898
Summer, Additional kWh	6,780,721	\$256,655	0.102%		393,909	0.056898
Winter, First 1000 kWh	44,039,144	\$1,717,820	0.685%		2,636,475	0.056898
Winter, Additional kWh	17,773,318	\$421,900	0.168%		647,524	0.036414
Rate DM, Secondary Dist. Service, Small				\$35,659,473		
Summer, First 2800 kWh	199,865,653	\$6,572,100	32.484%		\$11,583,506	\$0.059696
Summer, Next 3200 kWh	38,193,026	\$571,667	2.826%		1,007,579	\$0.024615
Summer, Additional kWh	10,767,061	\$121,910	0.603%		214,870	\$0.017108
Winter, First 2800 kWh	356,024,633	\$12,255,517	60.575%		21,600,686	0.059696
Winter, Next 3200 kWh	45,987,476	\$603,976	2.985%		1,064,524	0.024615
Winter, Additional kWh	12,799,135	\$106,839	0.528%		188,306	0.017108
Rate TS, Service at Transmission Voltage						\$0.052055
All Other Rate Classes						
All kWh						\$0.053733
Totals				\$420,545,620	\$420,545,620	
Retail Energy Price DELIVERED AT TRANSMISSION LEVEL BEFORE LOSSES AND CAT						\$0.050872

(1) Distribution loss factor is 1.03225. Transmission loss factor is 1.020578. CAT factor is 1.0026068.

Duke Energy Ohio
Summary Revenue and Cost Calculation - Model Verification

Blended Clearing Price Jun 2022 Through May 2023		\$56.385000
MWh At Bus Jun 2022 Through May 2023	20,139,407,087	20,139,407
Payments To Auction Providers		\$1,135,560,469

Rider RC Revenue			\$111,309,029
Rider RE Revenue			
	<u>Retail kWh</u>	<u>RE Rate</u>	
Residential (RS, TD, ORH, CUR, TD-13)	7,162,884,429	\$0.053733	\$384,886,147
Electric Space Heating (EH)	61,749,450	\$0.053733	\$3,318,008
Secondary Distribution - Small (DM)	663,636,984	\$0.053733	\$35,659,473
Unmetered Small Fixed Load (GSFL, ADPL)	29,927,353	\$0.053733	\$1,608,098
Secondary Distribution (DS)	6,096,082,796	\$0.053733	\$327,563,266
Primary Distribution (DP)	2,009,815,546	\$0.053733	\$107,994,226
Transmission Voltage (TS)	3,079,444,835	\$0.052055	\$160,299,391
Lighting	109,479,621	\$0.053733	\$5,882,712
Total	<u>19,213,021,014</u>		\$1,027,211,323

Total RC plus RE		\$1,138,520,352
Total RC plus RE excluding CAT	1.0026068	\$1,135,560,174
Difference (RC/RE Revenue excluding CAT minus Payments To Auction Providers)		(\$295)
% Difference		0.0%

DUKE ENERGY OHIO
CASE NO. 16-940-EL-UNC (PIPP RFP)
CASE NO. 18-6000-EL-UNC (SSO AUCTION)
CALCULATION OF PIPP RATES - JUNE 1, 2022 - MAY 31, 2023

	% Auctioned	Price	Total	
	(a)	(b)	(c)	
1 Auction 1	100%	56.39	56.39	
2 Auction 2	0%	-	-	
3 Previously Auctioned Load				
4 Weighted-Avg Price for Previously Auctioned Load	100%		\$56.39	Wtd Avg of All Auctions Before PIPP-Only Auction
5 Last Three SSO Auctions Excluding PIPP	100%	\$56.39	\$56.39	
6 Weighted Average SSO Price (All Classes)			\$56.39	Wtd Average of what ALL customers will pay at wholesale
7 Resulting RS rate (after 5 CP allocations and rate design, converted to wholesale)			\$57.96	Wtd Average of what RS customers will pay at wholesale - Page 2
8 Scale up Prior Auction Average for RS	0%		\$57.96	Convert Price for ALL SSO to RS rates
9 PIPP Only Auction	100%		\$147.25	RFP Price At Wholesale Level
10 Weighted-Average PIPP Price At Wholesale			\$147.25	0% of SSO Price for RS from all prior auctions plus 100% of PIPP-only auction
11 Ratio of Wtd-Avg PIPP Price to Average RS Price at Wholesale			254.0%	To be applied to all RC and RE Blocks
13 Convert PIPP Price At Wholesale to Retail			\$155.53	Row 11 adjusted upward for losses and CAT
14 Average RS Retail Rate June 2022 - May 2023 Delivery			\$61.22	From Page 2
15 Ratio of Wtd-Avg PIPP Price to Average RS Price at Retail			254.0%	To be applied to all RC and RE Blocks

DUKE ENERGY OHIO
CASE NO. 16-940-EL-UNC (PIPP RFP)
CASE NO. 18-6000-EL-UNC (SSO AUCTION)
CALCULATION OF PIPP RATES

	From Case No. 18-6000-EL-UNC					
	Annual RS/CUR kWh	SSO Revenue ^(a)		Rate Calculations ^(b)		
		Rider RC	Rider RE	Rider RC	Rider RE	RC + RE
Summer, First 1000 kWh	1,811,194,796	\$14,369,909	\$103,052,945	\$0.007934	\$0.056898	\$0.064832
Summer, Additional kWh	782,507,349	6,208,366	44,522,923	\$0.007934	\$0.056898	\$0.064832
Winter, First 1000 kWh	3,393,326,872	26,922,449	193,072,732	\$0.007934	\$0.056898	\$0.064832
Winter, Additional kWh	1,078,426,102	5,142,631	39,269,843	\$0.004769	\$0.036414	\$0.041183
Total All RS Sales	7,065,455,118	\$52,643,355	\$379,918,442	Weighted-Average ----->		\$0.061222
Remove CAT Taxes						\$0.061063
Remove T&D Losses						\$0.057962

Note: ^(a) Allocated Revenue Requirement grossed up for 'distribution losses factor is 3.225%; transmission loss factor is 2.0578%; and Commercial Activities Tax 0.26068%.
^(b) Ties to tariffs for Rider RC and RE.

PIPP Rider RC and RE Rates June 2020 - May 2021

	Standard Rates		PIPP Rates -254.0% of Standard Rates		
	Rider RC	Rider RE	Rider RC	Rider RE	RC + RE
Rate RS - PIPP					
Summer, First 1000 kWh	\$0.007934	\$0.056898	\$0.020156	\$0.144545	\$0.164701
Summer, Additional kWh	\$0.007934	\$0.056898	\$0.020156	\$0.144545	\$0.164701
Winter, First 1000 kWh	\$0.007934	\$0.056898	\$0.020156	\$0.144545	\$0.164701
Winter, Additional kWh	\$0.004769	\$0.036414	\$0.012114	\$0.092508	\$0.104622
Rate ORH, Optional Residential Service - PIPP					
Summer, First 1000 kWh	\$0.004935	\$0.037745	\$0.012537	\$0.095890	\$0.108426
Summer, Additional kWh	\$0.004935	\$0.037745	\$0.012537	\$0.095890	\$0.108427
Summer, kWh greater than 150 times demand	\$0.004935	\$0.037745	\$0.012537	\$0.095890	\$0.108427
Winter, First 1000 kWh	\$0.004935	\$0.037745	\$0.012537	\$0.095890	\$0.108427
Winter, Additional kWh	\$0.002634	\$0.024639	\$0.006692	\$0.062595	\$0.069287
Winter, kWh greater than 150 times demand	\$0.001557	\$0.023336	\$0.003954	\$0.059284	\$0.063239

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in

Case No(s). 23-0059-EL-RDR

Summary: Application Duke Energy Ohio, Inc.'s Application For Audit of Rider SCR, Rider RE, Rider RC and Rider ECF electronically filed by Mrs. Tammy M. Meyer on behalf of Duke Energy Ohio Inc. and D'Ascenzo, Rocco and Kingery, Jeanne and Akhbari, Elyse Hanson and Vaysman, Larisa