

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. 21-0039-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 281,418 consumers and supplying electric transmission and distribution service to approximately 450,638 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 2020 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 2020.
 - c. Attachments C-1 and C-2 support the calculation of Rider RE and Rider RC for the June 1, 2020 – May 31, 2021 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,

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Duke Energy Ohio
 Supplier Cost Reconciliation
 Summary of SSO Supplier Costs/Revenue
 Effective for the Period January 2020 through March 2020

Line Description	Aug-19	Sep-19	Oct-19
1 Beginning Balance	\$		
2			
3 Revenue Associated with Riders RE and RC	21,440,970.41	21,083,821.04	13,731,733.27
4 less: FES PIPP included in RC & RE			
5 Net RC / RE Revenue including CAT Tax	21,440,970.41	21,083,821.04	13,731,733.27
6 less: CAT tax	55,747.00	54,818.40	35,702.81
7 Net RC / RE Revenue excluding CAT Tax	21,385,223.41	21,029,002.63	13,696,030.46
8			
9 Cost of Supplying Generation Service	20,689,672.79	18,013,926.11	17,149,137.54
10 less: FES PIPP Payment			
11 Auction Expenses			
12 Net Meter Excess Generation Expense			
13 Curtailment Energy Credit	-	-	-
14 Audit Fees	-	-	-
15 Net expense for current month	\$		
16			
17 Net (revenue) / expense for current month	\$		
18			
19 Revenue Associated with Rider SCR	(1,023,094.59)	(1,017,025.47)	(723,877.27)
20 less: FES PIPP included in SCR			
21 Net SCR Revenue including CAT Tax	(1,023,094.59)	(1,017,025.47)	(723,877.27)
22 less: CAT tax	(2,660.07)	(2,644.29)	(1,882.10)
23 Net SCR Revenue excluding CAT Tax	(1,020,434.52)	(1,014,381.18)	(721,995.17)
24			
25 (Over) / Under Recovery for the month	\$		
26			
27 Ending Balance before interest	\$		
28 Applicable Interest for the month @ 5.32% ,@ 5.16% beg. Jan '19			
29 Ending Balance	\$		
30 Projected Non-Switched Kwh Sales for Twelve Months ended December 2020			4,005,351,863
31 CAT Tax Rate			0.0026068
32 Rider SCR Charge (per Kwh)			\$ (0.002531)
33			
34			
35 Non-Bypassable Threshold Calculation			
36 (Over) / Under Recovery Balance		\$	(10,110,463.56)
37 Total SSO Revenue (Riders RE, RC, AER-R & RECON)		\$	210,614,843.88
38 Threshold Percentage			10%
39 Threshold Amount (Line 18 * Line 19)		\$	21,061,484.39
40 Variance		\$	-
41 Rider SCR Bypassable Yes / No			YES

Duke Energy Ohio
Supplier Cost Reconciliation
Summary of SSO Supplier Costs/Revenue
Effective for the Period April 2020 through June 2020

Line Description	Nov-19	Dec-19	Jan-20
1 Beginning Balance	\$ [REDACTED]		
2			
3 Revenue Associated with Riders RE and RC	17,197,768.99	18,273,770.24	17,686,172.83
4 less: FES PIPP included in RC & RE			
5 Net RC / RE Revenue including CAT Tax	17,197,768.99	18,273,770.24	17,686,172.83
6 less: CAT tax	44,714.58	47,512.21	45,984.44
7 Net RC / RE Revenue excluding CAT Tax	17,153,054.40	18,226,258.04	17,640,188.39
8			
9 Cost of Supplying Generation Service	19,018,502.26	19,795,977.77	18,148,045.56
10 less: FES PIPP Payment			
11 Auction Expenses	[REDACTED]		
12 Net Meter Excess Generation Expense	[REDACTED]		
13 Curtailment Energy Credit	-	-	-
14 Audit Fees	-	-	-
15 Net expense for current month	\$ [REDACTED]		
16			
17 Net (revenue) / expense for current month	\$ [REDACTED]		
18			
19 Revenue Associated with Rider SCR	(911,938.83)	(964,652.33)	(868,879.44)
20 less: FES PIPP included in SCR			
21 Net SCR Revenue including CAT Tax	(911,938.83)	(964,652.33)	(868,879.44)
22 less: CAT tax	(2,371.06)	(2,508.12)	(2,259.11)
23 Net SCR Revenue excluding CAT Tax	(909,567.77)	(962,144.21)	(866,620.33)
24			
25 (Over) / Under Recovery for the month	\$ [REDACTED]		
26			
27 Ending Balance before interest	\$ [REDACTED]		
28 Applicable Interest for the month @ 5.32% ,@ 5.16% beg. Jan '19			
29 Ending Balance	\$ [REDACTED]		
30 Projected Non-Switched Kwh Sales for Twelve Months ended March 2021			3,999,557,070
31 CAT Tax Rate			0.0026068
32 Rider SCR Charge (per Kwh)			\$ (0.000834)
33			
34			
35 <u>Non-Bypassable Threshold Calculation</u>			
36 (Over) / Under Recovery Balance		\$ (3,327,966.87)	
37 Total SSO Revenue (Riders RE, RC, AER-R & RECON)		\$ 205,932,108.75	
38 Threshold Percentage			10%
39 Threshold Amount (Line 18 * Line 19)		\$ 20,593,210.88	
40 Variance		\$ -	
41 Rider SCR Bypassable Yes / No			YES

Duke Energy Ohio
Supplier Cost Reconciliation
Summary of SSO Supplier Costs/Revenue
Effective for the Period July 2020 through September 2020

Line Description	Feb-20	Mar-20	Apr-20
1 Beginning Balance	\$		
2			
3 Revenue Associated with Riders RE and RC	17,772,916.93	15,146,142.02	14,753,375.71
4 less: FES PIPP included in RC & RE			
5 Net RC / RE Revenue including CAT Tax	17,772,916.93	15,146,142.02	14,753,375.71
6 less: CAT tax	46,209.98	39,380.31	38,359.11
7 Net RC / RE Revenue excluding CAT Tax	17,726,706.96	15,106,761.72	14,715,016.61
8			
9 Cost of Supplying Generation Service	19,093,779.44	15,468,317.57	11,694,292.45
10 less: FES PIPP Payment			
11 Auction Expenses			
12 Net Meter Excess Generation Expense			
13 Curtailment Energy Credit	-	-	-
14 Audit Fees	-	-	-
15 Net expense for current month	\$		
16			
17 Net (revenue) / expense for current month	\$		
18			
19 Revenue Associated with Rider SCR	(870,395.07)	(502,322.19)	(225,947.52)
20 less: FES PIPP included in SCR			
21 Net SCR Revenue including CAT Tax	(870,395.07)	(502,322.19)	(225,947.52)
22 less: CAT tax	(2,263.05)	(1,306.05)	(587.47)
23 Net SCR Revenue excluding CAT Tax	(868,132.03)	(501,016.14)	(225,360.05)
24			
25 (Over) / Under Recovery for the month	\$		
26			
27 Ending Balance before interest	\$		
28 Applicable Interest for the month @ 5.32% ,@ 5.16% beg. Jan '19			
29 Ending Balance	\$		
30 Projected Non-Switched Kwh Sales for Twelve Months ended June 2021			3,915,715,231
31 CAT Tax Rate			0.0026068
32 Rider SCR Charge (per Kwh)			\$ (0.000710)
33			
34			
35 <u>Non-Bypassable Threshold Calculation</u>			
36 (Over) / Under Recovery Balance		\$	(2,773,081.41)
37 Total SSO Revenue (Riders RE, RC, AER-R & RECON)		\$	203,460,267.95
38 Threshold Percentage			10%
39 Threshold Amount (Line 18 * Line 19)		\$	20,346,026.79
40 Variance		\$	-
41 Rider SCR Bypassable Yes / No			YES

Duke Energy Ohio
Supplier Cost Reconciliation
Summary of SSO Supplier Costs/Revenue
Effective for the Period October 2020 through December 2020

Line Description	May-20	Jun-20	Jul-20
1 Beginning Balance	\$		
2			
3 Revenue Associated with Riders RE and RC	14,190,456.10	17,696,723.78	22,151,966.05
4 less: FES PIPP included in RC & RE			
5 Net RC / RE Revenue including CAT Tax	14,190,456.10	17,696,723.78	22,151,966.05
6 less: CAT tax	36,895.50	46,011.88	57,595.60
7 Net RC / RE Revenue excluding CAT Tax	14,153,560.60	17,650,711.90	22,094,370.45
8			
9 Cost of Supplying Generation Service	10,441,085.90	14,721,119.17	19,427,607.80
10 less: FES PIPP Payment			
11 audit correction	54,673.65	-	-
12 Auction Expenses			
13 Net Meter Excess Generation Expense			
14 Curtailment Energy Credit	(593.84)	-	-
15 Audit Fees	-	-	-
16 Net expense for current month	\$		
17			
18 Net (revenue) / expense for current month	\$		
19			
20 Revenue Associated with Rider SCR	(220,613.34)	(251,966.88)	(286,158.41)
21 less: FES PIPP included in SCR			
22 Net SCR Revenue including CAT Tax	(220,613.34)	(251,966.88)	(286,158.41)
23 less: CAT tax	(573.60)	(655.12)	(744.02)
24 Net SCR Revenue excluding CAT Tax	(220,039.74)	(251,311.76)	(285,414.39)
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 2021			3,969,379,934
32 CAT Tax Rate			0.0026068
33 Rider SCR Charge (per Kwh)			\$ (0.002848)
34			
35			
36 Non-Bypassable Threshold Calculation			
37 (Over) / Under Recovery Balance		\$	(11,274,225.00)
38 Total SSO Revenue (Riders RE, RC, AER-R & RECON)		\$	203,763,061.85
39 Threshold Percentage			10%
40 Threshold Amount (Line 18 * Line 19)		\$	20,376,306.18
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 30, 2019	\$3,585,513		
2	Actual ECF Balance through March 31, 2020	(\$808,244)		
3	Projected ECF April 2020	<u>\$210,000</u>		
4	Calculated ECF Rate	<u>\$2,987,269</u>	\$452,055,948	0.6608%
5	CAT Tax			1.0026068
6	Rider ECF Rate including CAT Tax			0.6625%

(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.

1	Monthly Recovery
2	Calculated ECF Rate
3	CAT Tax
4	Rider ECF Rate including CAT Tax

[illegible]

Actual										Projected	Total	To Be Collected
June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019	January 2020	February 2020	March 2020	April 2020		
											\$0.00	\$0.00
											\$0.00	\$0.00
											\$0.00	\$0.00
											\$0.00	\$0.00
											\$0.00	\$0.00
											\$0.00	\$0.00
\$384,383.31	\$209,196.33	\$237,438.15	\$234,585.03	\$215,337.15	\$231,089.16	\$202,498.17	\$238,700.00	\$230,692.70	\$221,473.20	\$210,000.00	\$3,068,602.43	\$27,584,692.97
											\$0.00	\$867,704.58
											\$0.00	\$517,789.22
\$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
\$315,919.40	\$382,903.19	\$379,678.10	\$363,503.25	\$334,848.85	\$284,647.27	\$337,250.33	\$339,216.19	\$319,314.20	\$310,182.49		\$3,666,846.49	\$23,211,930.35
\$68,463.91	-\$173,706.86	-\$142,239.95	-\$128,918.22	-\$119,511.70	-\$53,558.11	-\$134,752.16	-\$100,516.19	-\$88,621.50	-\$88,709.29	\$210,000.00	-\$598,244.06	\$2,987,268.82

Duke Energy Ohio
Methodology for Calculating Average Riders RC and RE

	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 23	Jun 20-May 23	Jun 21-May 24	Jun 21-May 24	Jun 22-May 24	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%	16%	16%	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
	Aug-18	\$48.75	\$49.27	\$52.06	\$49.71	\$49.48	\$52.87											50.31	\$14.64	35.68
Auction 3	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									46.57	9.11	37.47
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
Auction 6	Jan-20	\$48.75	\$49.27		\$49.71	\$49.48		\$47.66	\$48.12									48.85	7.69	41.16
	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			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
	Jul-20	\$48.75			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
Auction 7	Aug-20	\$48.75			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
	Sep-20	\$48.75			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
	Oct-20	\$48.75			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
	Nov-20	\$48.75			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
	Dec-20	\$48.75			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
Auction 8	Jan-21	\$48.75			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
	Feb-21	\$48.75			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
	Mar-21	\$48.75			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
	Apr-21	\$48.75			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
	May-21	\$48.75			\$49.71			\$47.66	\$48.12	\$44.21	41.14							46.57	9.11	37.47
					49.71															
	Jun-21							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
	Jul-21							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
Auction 9	Aug-21							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
	Sep-21							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
	Oct-21							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
	Nov-21							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
	Dec-21							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
Auction 10	Jan-22							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
	Feb-22							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
	Mar-22							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
	Apr-22							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
	May-22							\$47.66	\$48.12	\$44.21	41.14							29.83	0.00	29.83
	Jun-22																	0.00	0.00	-
	Jul-22																	0.00	0.00	-
Auction 11	Aug-22																	0.00	0.00	-
	Sep-22																	0.00	0.00	-
	Oct-22																	0.00	0.00	-
	Nov-22																	0.00	0.00	-
	Dec-22																	0.00	0.00	-
Auction 12	Jan-23																	0.00	0.00	-
	Feb-23																	0.00	0.00	-
	Mar-23																	0.00	0.00	-
	Apr-23																	0.00	0.00	-
	May-23																	0.00	0.00	-
	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						
Jun '22 - May '23						
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 2020 - May 2021

No	Description	Allocation of Rider RC Revenue Requirement			
		Percent of Total	Allocated \$	Allocated \$ Plus CAT ⁽²⁾	PJM 5CP Demand ⁽¹⁾
		From Page 3a			From Page 3a
<i>Rate Schedule:</i>					
1	Residential (RS, TD, ORH)	45.31%	\$87,656,807	\$87,885,311	1,526,108
3	Secondary Distribution - Small (DM)	3.23%	\$6,256,105	\$6,272,413	108,919
5	Secondary Distribution (DS)	32.81%	\$63,481,036	\$63,646,518	1,105,207
6	Primary Distribution (DP)	9.32%	\$18,023,744	\$18,070,728	313,794
7	Transmission Voltage (TS)	9.28%	\$17,953,382	\$18,000,183	312,569
8	Lighting	0.05%	\$87,685	\$87,913	1,527
9	Total	100.00%	\$193,458,760	\$193,963,068	3,368,124

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 2019							
PJM Peak Date/Time (Hour Ending)							
7-10-19 @ 6pm	1,555,959	1,086,617	312,994	306,231	106,175	n/a	n/a
7-17-19 @ 5pm	1,287,083	1,098,479	322,144	314,215	105,669	n/a	n/a
7-19-19 @ 6pm	1,610,505	1,074,024	314,673	315,149	98,883	n/a	n/a
7-29-19 @ 5pm	1,411,641	1,084,036	300,693	316,587	110,672	n/a	n/a
8-19-19 @ 5pm	1,765,351	1,182,879	318,468	310,660	123,195	n/a	n/a
Average	1,526,108	1,105,207	313,794	312,569	108,919		1,527
Percent	45.31%	32.81%	9.32%	9.28%	3.23%	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.

TO PAGE 3

CALCULATION OF TRAFFIC LIGHTING COINCIDENT DEMAND

COMPANY	1
SERV	E

Sum of USAGE	RATECODE	
MONTH	TL	Grand Total
Jul-19	1,099,150	1,099,150
Aug-19	1,099,150	1,099,150
Grand Total	2,198,300	2,198,300

Average kWh 1,099,150
Average kW 1,527

DUKE ENERGY OHIO
JUNE 2020 - MAY 2021 CAPACITY PRICES FROM AUCTION ⁽¹⁾

	June 2020 - May 2021 Forecast			June 2020 - May 2021			Forecast June20 - May21 7,246,048,312	Case No. 17-0032-EL-AIR 1,834,193,305
	kWh; kW; kVA	RC Revenue June 2019 - May 2020 Rates	Allocation Factor	Allocated Cap Cost	Allocated Revenue	Rates (\$/kWh; kW; kVA)		
Rates RS, RS3P, and RSLI, Residential Service				\$87,885,311				
Summer, First 1000 kWh	1,857,488,977	\$23,679,247	26.951%		\$23,685,872	\$0.012752		1,834,193,305
Summer, Additional kWh	802,508,254	10,230,334	11.644%		10,233,196	\$0.012752		792,443,608
Winter, First 1000 kWh	3,480,060,384	\$44,362,000	50.491%		44,376,411	\$0.012752		3,436,415,256
Winter, Additional kWh	1,105,990,697	8,445,882	9.613%		8,446,245	\$0.007637		1,092,119,930
Rate ORH, Optional Residential Service								
Summer, First 1000 kWh	1,069,916	\$8,477	0.010%		\$8,479	\$0.007925	9,429,622	667,687
Summer, Additional kWh	787,632	6,240	0.007%		6,242	\$0.007925		491,526
Summer, kWh greater than 150 times demand	612,929	4,856	0.006%		4,857	\$0.007925		382,501
Winter, First 1000 kWh	2,449,516	19,409	0.022%		19,413	\$0.007925		1,528,696
Winter, Additional kWh	2,902,440	12,275	0.014%		12,278	\$0.004230		1,811,283
Winter, kWh greater than 150 times demand	1,607,090	4,017	0.005%		4,020	\$0.002501		1,002,913
Rate TD, Optional Time-of-Day Rate								
Summer, On-Peak kWh	67,217	\$1,127	0.001%		\$1,128	\$0.016777	288,356	64,197
Summer, Off-Peak kWh	32,984	132	0.000%		132	\$0.004017		31,502
Winter, On-Peak kWh	131,505	1,949	0.002%		1,949	\$0.014822		125,596
Winter, Off-Peak kWh	56,649	229	0.000%		229	\$0.004035		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)								
Summer, First 1000 kWh	19,532,676	\$252,834	0.288%		\$252,905	\$0.012948	88,616,654	19,257,516
Summer, Additional kWh	6,829,238	88,398	0.101%		88,423	\$0.012948		6,733,033
Winter, First 1000 kWh	44,354,251	574,109	0.653%		574,319	\$0.012948		43,729,425
Winter, Additional kWh	17,900,489	169,216	0.193%		169,214	\$0.009453		17,648,322
Rate DS, Secondary Distribution Voltage				\$63,646,518				
First 150 kWh per kW	2,791,370,380	\$53,010,969	87.860%		\$55,919,749	\$0.020033	6,466,985,645	2,822,417,485
Next 150 kWh per kW	2,235,284,092	4,946,278	8.198%		5,217,686	\$0.002334		2,260,146,111
Next 150 kWh per kW	1,153,640,545	1,233,371	2.044%		1,301,048	\$0.001128		1,166,471,949
Additional kWh	286,690,628	100,953	0.167%		106,492	\$0.000371		289,879,353
Rate GS-FL, Optional Unmetered								
kWh Greater Than or Equal to 540 Hours	29,393,337	\$269,512	0.447%		284,301	\$0.009672	29,452,032	29,616,017
kWh Less Than 540 Hours	58,695	639	0.001%		674	\$0.011482		59,140
Rate SFL-ADPL, Optional Unmetered								
All kWh	61,649	\$4,715	0.008%		4,973	\$0.009672		62,400
Rate EH, Optional Electric Space Heating								
All kWh	64,309,677	\$769,379	1.275%		811,595	\$0.012620		61,811,389
Rate DM, Secondary Dist. Service, Small				\$6,272,413				
Summer, First 2800 kWh	175,630,313	\$1,736,162	27.228%		\$1,707,845	\$0.010994	583,165,589	169,372,647
Summer, Next 3200 kWh	33,561,810	337,901	5.299%		\$332,390	\$0.010994		32,366,011
Summer, Additional kWh	9,461,467	39,042	0.612%		\$38,405	\$0.004059		9,124,358
Winter, First 2800 kWh	312,853,743	3,855,300	60.462%		\$3,792,421	\$0.010994		301,706,839
Winter, Next 3200 kWh	40,411,120	357,007	5.599%		\$351,184	\$0.010994		38,971,281
Winter, Additional kWh	11,247,135	50,999	0.800%		\$50,168	\$0.004460		10,846,403
Rate DP, Service at Primary Dist.Voltage				\$18,070,728				
First 150 kWh per kW	690,996,954	\$14,558,893	87.828%		\$15,871,222	\$0.022969	2,089,129,292	719,824,292
Next 150 kWh per kW	656,782,717	1,311,374	7.911%		1,429,581	\$0.002177		684,182,690
Next 150 kWh per kW	527,518,278	616,749	3.721%		672,342	\$0.001275		549,525,535
Additional kWh	213,831,343	89,515	0.540%		97,583	\$0.000456		222,752,060
Rate TS, Service at Transmission Voltage				\$18,000,183				
First 150 kWh per kVA	904,034,041	\$13,559,505	84.181%		\$15,152,645	\$0.016761	3,275,877,802	906,663,393
Next 150 kWh per kVA	872,333,158	1,471,745	9.137%		1,644,664	\$0.001885		874,870,309
Next 150 kWh per kVA	828,435,169	825,793	5.127%		922,818	\$0.001114		830,844,644
Additional kWh	671,075,435	250,611	1.556%		280,056	\$0.000417		673,027,235
Rate TL, Traffic Lighting Service				\$87,913				
All kWh	13,907,258	\$8,898	11.436%		\$10,053	\$0.000723		13,158,928
Rate SL, Street Lighting Service								
Rate OL, Outdoor Lighting Service	38,055,762	\$39,715	51.039%		\$44,870	\$0.000757		37,328,354
Rate NSU, Street Lighting	17,873,241	\$20,889	26.846%		23,601	\$0.000757		20,287,810
Rate NSP, Private Outdoor Lighting	957,950	\$1,049	1.348%		1,185	\$0.000757		954,028
Rate SE, Street Lighting Service	1,215,521	\$1,364	1.753%		1,541	\$0.000757		1,317,264
All kWh	4,907,715	\$5,078	6.526%		5,737	\$0.000757		4,829,947
Rate SC, Street Lighting								
Energy Only - All kWh	17,716,075	\$145	0.186%		\$164	\$0.000757	18,134,512	17,065,355
Units - All kWh	418,437	172	0.221%		194	\$0.000757		403,067
Rate UOLS, Unmetered Outdoor Lighting								
All kWh	21,677,370	\$503	0.646%		\$568	\$0.000757		18,658,676
Totals	19,970,093,959	\$187,334,953		\$193,963,068 CHECK	\$193,963,068			20,017,245,370

Note: ⁽¹⁾ Final figures include applicable CAT.

DUKE ENERGY OHIO

JUN 2020 - MAY 2021 RETAIL ENERGY RATES CONVERTED FROM AUCTION PRICE

June 2020 - May 2021 Forecast				June 1, 2020 - May 31, 2021		
kWh; kW; kVA	RE Revenue June 2019 - May 2020 Rates	Allocation Factor		Revenue Requirement Plus Losses & CAT	Allocated Revenue	Rates (\$/kWh; kW; kVA)
Rates RS, RS3P, and RSLI, Residential Service				\$295,150,445		
Summer, First 1000 kWh	1,857,488,977	\$84,669,700	26.185%		\$77,284,914	\$0.042530
Summer, Additional kWh	802,508,254	\$39,420,125	12.191%		35,981,951	0.042530
Winter, First 1000 kWh	3,480,060,384	\$162,001,372	50.100%		147,871,813	0.042530
Winter, Additional kWh	1,105,990,697	\$32,991,344	10.203%		30,113,880	0.027228
Rate ORH, Optional Residential Service						
Summer, First 1000 kWh	1,069,916	\$31,557	0.010%		\$28,804	\$0.028202
Summer, Additional kWh	787,632	\$25,384	0.008%		23,170	0.028202
Summer, kWh greater than 150 times demand	612,929	\$18,260	0.006%		16,667	0.028202
Winter, First 1000 kWh	2,449,616	\$76,816	0.024%		70,116	0.028202
Winter, Additional kWh	2,902,440	\$58,539	0.018%		53,433	0.018410
Winter, kWh greater than 150 times demand	1,607,090	\$30,699	0.009%		28,022	0.017436
Rate TD, Optional Time-of-Day Rate						
Summer, On-Peak kWh	67,217	\$11,306	0.003%		\$10,320	\$0.153527
Summer, Off-Peak kWh	32,984	\$1,751	0.001%		1,598	0.048447
Winter, On-Peak kWh	131,505	\$16,317	0.005%		14,894	0.113255
Winter, Off-Peak kWh	56,649	\$2,833	0.001%		2,586	0.045646
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	19,532,676	\$906,974	0.280%		\$827,869	\$0.044569
Summer, Additional kWh	6,829,238	\$330,933	0.102%		302,069	0.044569
Winter, First 1000 kWh	44,354,251	\$2,214,971	0.685%		2,021,784	0.044569
Winter, Additional kWh	17,900,489	\$544,002	0.168%		496,554	0.027740
Rate DM, Secondary Dist. Service, Small				\$23,435,813		
Summer, First 2800 kWh	175,630,313	\$8,205,889	32.484%		\$7,612,813	\$0.044646
Summer, Next 3200 kWh	33,561,810	\$713,781	2.826%		662,193	\$0.018410
Summer, Additional kWh	9,461,467	\$152,217	0.603%		141,215	\$0.012795
Winter, First 2800 kWh	312,853,743	\$15,302,174	60.575%		14,196,217	0.044646
Winter, Next 3200 kWh	40,411,120	\$754,121	2.985%		699,618	0.018410
Winter, Additional kWh	11,247,135	\$133,398	0.528%		123,757	0.012795
Rate TS, Service at Transmission Voltage						\$0.038809
All Other Rate Classes						
All kWh						\$0.040187
Totals				\$318,586,258	\$318,586,258	
Retail Energy Price DELIVERED AT TRANSMISSION LEVEL BEFORE LOSSES AND CAT						\$0.037466

(1) Distribution loss factor is 1.03552. Transmission loss factor is 1.03314. CAT factor is 1.0026068.

Duke Energy Ohio
Summary Revenue and Cost Calculation - Model Verification

Blended Clearing Price Jun 2020 Through May 2021		\$46.572500
MWh At Bus Jun 2020 Through May 2021	21,244,530,523	21,244,531
		\$989,410,898

Rider RC Revenue			\$193,963,068
Rider RE Revenue			
	Retail kWh	RE Rate	
Residential (RS, TD, ORH, CUR, TD-13)	7,344,382,944	\$0.040187	\$295,150,445
Electric Space Heating (EH)	64,309,677	\$0.040187	\$2,584,428
Secondary Distribution - Small (DM)	583,165,589	\$0.040187	\$23,435,813
Unmetered Small Fixed Load (GSFL, ADPL)	29,513,681	\$0.040187	\$1,186,073
Secondary Distribution (DS)	6,466,985,645	\$0.040187	\$259,890,273
Primary Distribution (DP)	2,089,129,292	\$0.040187	\$83,956,330
Transmission Voltage (TS)	3,275,877,802	\$0.038809	\$127,132,718
Lighting	116,729,329	\$0.040187	\$4,691,029
Total	19,970,093,959		\$798,027,109
Total RC plus RE			\$991,990,177
Total RC plus RE excluding CAT	1.0026068		\$989,410,981
Difference (RC/RE Revenue excluding CAT minus Payments To Auction Providers)			\$83
% 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, 2020 - MAY 31, 2021

	% Auctioned	Price	Total	
	(a)	(b)	(c)	
1 Auction 1	100%	46.57	46.57	
2 Auction 2	0%	-	-	
3 Previously Auctioned Load				
4 Weighted-Avg Price for Previously Auctioned Load	100%		\$46.57	Wtd Avg of All Auctions Before PIPP-Only Auction
5 Last Three SSO Auctions Excluding PIPP	100%	\$46.57	\$46.57	
6 Weighted Average SSO Price (All Classes)			\$46.57	Wtd Average of what ALL customers will pay at wholesale
7 Resulting RS rate (after 5 CP allocations and rate design, converted to wholesale)			\$48.63	Wtd Average of what RS customers will pay at wholesale - Page 2
8 Scale up Prior Auction Average for RS	0%		\$48.63	Convert Price for ALL SSO to RS rates
9 PIPP Only Auction	100%		\$37.88	RFP Price At Wholesale Level
10 Weighted-Average PIPP Price At Wholesale			\$37.88	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			77.9%	To be applied to all RC and RE Blocks
13 Convert PIPP Price At Wholesale to Retail			\$40.63	Row 11 adjusted upward for losses and CAT
14 Average RS Retail Rate June 2018-May2019 Delivery			\$52.17	From Page 2
15 Ratio of Wtd-Avg PIPP Price to Average RS Price at Retail			77.9%	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 kWh	Allocated SSO Costs ^(a)		Rate Calculations ^(b)		
		Rider RC	Rider RE	Rider RC	Rider RE	RC + RE
Summer, First 1000 kWh	1,857,488,977	\$23,685,872	\$78,999,619	\$0.012752	\$0.042530	\$0.055282
Summer, Additional kWh	802,508,254	10,233,196	34,130,941	\$0.012752	\$0.042530	\$0.055282
Winter, First 1000 kWh	3,480,060,384	44,376,411	148,008,117	\$0.012752	\$0.042530	\$0.055282
Winter, Additional kWh	1,105,990,697	8,446,245	30,113,880	\$0.007637	\$0.027228	\$0.034865
Total All RS Sales	7,246,048,312	\$86,741,724	\$291,252,558	Weighted-Average ----->		\$0.052166
Remove CAT Taxes						\$0.052030
Remove T&D Losses						\$0.048634
Note: ^(a) Allocated Revenue Requirement grossed up for 'distribution losses factor is 3.552%; transmission loss factor is 3.314%; and Commercial Activities Tax 0.26068%.						
^(b) Ties to tariffs for Rider RC and RE.						

PIPP Rider RC and RE Rates June 2019 - May 2020

	Standard Rates		PIPP Rates -77.9% of Standard Rates		
	Rider RC	Rider RE	Rider RC	Rider RE	RC + RE
Rate RS - PIPP					
Summer, First 1000 kWh	\$0.012752	\$0.042530	\$0.009932	\$0.033126	\$0.043058
Summer, Additional kWh	\$0.012752	\$0.042530	\$0.009932	\$0.033126	\$0.043058
Winter, First 1000 kWh	\$0.012752	\$0.042530	\$0.009932	\$0.033126	\$0.043058
Winter, Additional kWh	\$0.007637	\$0.027228	\$0.005948	\$0.021207	\$0.027156
Rate ORH, Optional Residential Service - PIPP					
Summer, First 1000 kWh	\$0.007925	\$0.028202	\$0.006173	\$0.021966	\$0.028139
Summer, Additional kWh	\$0.007925	\$0.028202	\$0.006172	\$0.021966	\$0.028139
Summer, kWh greater than 150 times demand	\$0.007925	\$0.028202	\$0.006173	\$0.021966	\$0.028139
Winter, First 1000 kWh	\$0.007925	\$0.028202	\$0.006173	\$0.021966	\$0.028139
Winter, Additional kWh	\$0.004230	\$0.018410	\$0.003295	\$0.014339	\$0.017634
Winter, kWh greater than 150 times demand	\$0.002501	\$0.017436	\$0.001948	\$0.013581	\$0.015529

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in

Case No(s). 21-0039-EL-RDR

Summary: Application Duke Energy Ohio, Inc. Application SSO Riders electronically filed by Mrs. Debbie L Gates on behalf of Duke Energy Ohio Inc. and Vaysman, Larisa and D'Ascenzo, Rocco O. Mr.