

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the Application of Duke)
Energy Ohio, Inc., for Recovery of)
Program Costs, Lost Distribution Revenue) Case No. 21-482-EL-RDR
and Performance Incentives Related to its)
Energy Efficiency and Demand Response)
Programs.

SUPPLEMENTAL DIRECT TESTIMONY OF

JAMES E. ZIOLKOWSKI

ON BEHALF OF

DUKE ENERGY OHIO, INC.

April 14, 2022

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Attachment JEZ-1 – Work papers showing the calculation of Rider EE-PDRR rates

Attachment JEZ-2 – Proposed Rider EE-PDRR tariff sheet – redlined

Attachment JEZ-3 – Proposed Rider EE-PDRR tariff sheet – clean

I. INTRODUCTION

1 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A. My name is James E. Ziolkowski, and my business address is 139 East Fourth
3 Street, Cincinnati, Ohio 45202.

4 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

5 A. I am employed by the Duke Energy Business Services LLC (DEBS) as Director,
6 Rates and Regulatory Planning. DEBS provides various administrative and other
7 services to Duke Energy Ohio, Inc., (Duke Energy Ohio or the Company) and other
8 affiliated companies of Duke Energy Corporation (Duke Energy).

9 **Q. ARE YOU THE SAME JAMES E. ZIOLKOWSKI WHO FILED DIRECT**
10 **TESTIMONY IN THESE PROCEEDINGS?**

11 A. Yes.

12 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS**
13 **PROCEEDING?**

14 A. The purpose of my supplemental testimony in this proceeding is to describe the
15 calculation of the Rider EE-PDRR rate update, including the true-up for the year 2020
16 and clarify assumptions underlying the calculations. The calculations include revised
17 2018 and 2019 true-up numbers that cap shared savings at \$7.8 million, pre-tax in
18 accordance with the February 23, 2022, Fifth Entry on Rehearing in Case No. 16-576-
19 EL-POR (Fifth Entry). The calculations also include the final true-up for the year
20 2021, during which the Company temporarily resumed a single low-income energy
21 efficiency program, pursuant to the June 14, 2021, Entry in Case No. 16-576-EL-POR
22 (Low Income Entry) and in accordance with R.C. 4928.661.

1 **Q. WHAT ARE THE ATTACHMENTS AND SCHEDULES FOR WHICH YOU**
2 **ARE RESPONSIBLE?**

3 A. I am sponsoring the following items:

- 4 • Attachment JEZ-1 – Revised work papers showing the calculation of Rider EE-
5 PDRR rates
- 6 • Attachment JEZ-2 – Revised proposed Rider EE-PDRR tariff sheet – redlined
- 7 • Attachment JEZ-3 – Revised proposed Rider EE-PDRR tariff sheet – clean

8 **Q. WHAT IS THE PURPOSE OF RIDER EE-PDR AND EE-PDRR?**

9 A. Rider EE-PDR is the mechanism through which the revenue requirement and its
10 true-up is recovered from residential and non-residential customers. Rider EE-
11 PDRR contains the results of the calculations, *i.e.*, the retail recovery rates.

12 **Q. WHAT TIME PERIOD DOES THIS TRUE-UP COVER?**

13 A. This true-up analysis addresses the calendar years up through 2020 and 2021. As
14 part of the true-up calculation, the reconciliation balances (*i.e.*, actual costs
15 including lost revenues, and actual EE-PDRR revenues) from 2012, 2013, 2014,
16 2015, 2016, 2017, 2018, and 2019, as filed in Case No. 13-753-EL-RDR, Case No.
17 14-457-EL-RDR, Case No. 15-534-EL-RDR, Case No. 16-664-EL-RDR, Case No.
18 17-781-EL-RDR, Case No. 18-397-EL-RDR, and the pending Case Nos. 19-622-
19 EL-RDR and 20-613-EL-RDR respectively, are carried forward and included in the
20 revenue requirement. This true-up constitutes the Company’s “application for a
21 final reconciliation of [its] EE/PDR cost recovery rider,” which the Company was
22 instructed to file by the Commission.¹ Thus, as detailed further below and in

¹ *In the Matter of the Application of Duke Energy Ohio, Inc. for Approval of its 2017-2019 Energy Efficiency and Peak Demand Reduction Program Portfolio Plan*, Case No. 16-576-EL-POR, Finding and Order, p. 4

1 Attachment JEZ-1, it includes all of the Company's claimed cost recovery that is
2 associated with programs conducted through December 31, 2020, and also includes
3 some 2021 residential low income weatherization program costs, for energy
4 efficiency programming conducted pursuant to the Low Income Entry.

5 **Q. DO YOUR CALCULATIONS TAKE INTO ACCOUNT THE \$7.8 MILLION**
6 **PRE-TAX SHARED SAVINGS CAP IMPOSED BY THE COMMISSION IN**
7 **THE FIFTH ENTRY?**

8 A. Yes. The work paper includes revised cost summaries for 2018, 2019, and 2020
9 that cap shared savings at \$7.8 million, pre-tax, for those three years.

10 **II. CALCULATION OF EE-PDR REVENUE REQUIREMENT**

11 **Q. WHAT LEVEL OF ACHIEVEMENT IS THE COMPANY CLAIMING?**

12 A. Duke Energy Ohio exceeded its efficiency and peak demand mandates for 2018,
13 2019, and 2020. The Company is claiming a pre-tax shared savings achievement
14 of \$7.8 million for each calendar year: 2018, 2019, and 2020.

15 **Q. IS THE COMPANY INCLUDING CARRYING COSTS ON LOST**
16 **MARGINS IN THIS APPLICATION?**

17 A. No.

18 **Q. WHAT TYPES OF LOST MARGINS ARE INCLUDED IN THIS TRUE-UP?**

19 A. The calculated lost margins include only distribution margins associated with non-
20 residential customers taking service under Rate DS, Rate DP, and Rate TS. The
21 lost margins associated with these three non-residential rates are included under
Rider EE-PDR since these non-residential customers are not subject to the

(November 18, 2020).

1 Company's decoupling rider, Rider DDR (Distribution Decoupling Rider), which
2 was approved in Case No. 11-5905-EL-RDR.

3 **Q. FOR WHAT TIME PERIODS ARE LOST MARGINS INCLUDED IN THIS**
4 **TRUE-UP?**

5 A. This true-up includes lost margins for 2020 as depicted on page 2 of Attachment
6 JEZ-1. These lost margins are collectively attributable to measures installed by the
7 Company in 2017, 2018, 2019, and/or 2020. The Company is not requesting to
8 collect any lost margins that occurred after December 31, 2020, in accordance with
9 the Fifth Entry.

10 **Q. DID THE DIRECT PROGRAM COSTS FOR 2020 INCLUDE INCENTIVE**
11 **PAY?**

12 A. Yes. The direct program costs for 2020 include \$293,681 of incentive pay. In past
13 cases, Staff has distinguished between "non-financial" and "financial" incentives,
14 and recommended exclusion of "financial incentives, based upon a utility's
15 financial goals" from recovery.²

16 **Q. WHAT PROPORTION OF THE INCENTIVE PAY INCLUDED IN**
17 **DIRECT PROGRAM COSTS FOR 2020 IS TIED TO MEASURES OTHER**
18 **THAN THE COMPANY'S FINANCIAL PERFORMANCE, SUCH AS**
19 **OPERATIONAL GOALS, SAFETY GOALS, AND OTHER NON-**
20 **FINANCIAL GOALS?**

21 A. \$108,446 of the total incentive pay is tied to the Company's financial performance.

² See *In the Matter of the Application of Duke Energy Ohio, Inc. for recovery of program costs, lost distribution revenue and performance incentives related to its Energy Efficiency and Demand Response Programs*, Case No. 18-397-EL-RDR, Staff's Review and Recommendation, pp. 1-2 (June 12, 2019).

\$185,235 of the total incentive pay is tied to non-financial measures and goals. Included within the \$185,235 is \$39,884 of restricted stock units (RSUs). Although Duke Energy employees receive RSUs for employee retention, and independent of the Company's financial performance, the Staff has previously recommended exclusion of these costs as well. The following table shows the detail of the incentive pay that is included in the application:

	Amount	% Related to Financial Performance	Amount Related to Financial Performance	Amount Not Related to Financial Performance
Exec Short Term Incent	\$32,399	50%	\$16,199	\$16,199
Incentives Allocated	\$210,864	40%	\$84,346	\$126,519
Performance Award	\$10,534	75%	\$7,900	\$2,633
Restricted Stock Units	\$39,884	0%	\$0	\$39,884
Total	\$293,681		\$108,446	\$185,235

Q. DOES THE COMPANY AGREE WITH PAST RECOMMENDATIONS TO EXCLUDE “FINANCIAL” INCENTIVE PAY?

A. No. Just like an employee's salary, incentive pay comprises a part of each employee's overall compensation package that is necessary to be competitive with other employers to attract and retain employees. Consequently, the Company believes that incentive pay is a necessary cost of providing safe and reliable utility service and should be recoverable. However, I am providing the components of incentive pay here in order to ensure that, if Staff continues recommending disallowance of “financial” incentives, it has an accurate breakdown of incentive pay components.

Q. DOES THIS APPLICATION INCLUDE AVOIDED COSTS ASSOCIATED WITH THE MERCANTILE SELF-DIRECT PROGRAM?

A. No. The Company included the energy and capacity savings from the Mercantile

1 Self-Direct program in determining its performance against the benchmarks set
2 forth in Section 4928.66, Ohio Revised Code, but it did not include any avoided
3 costs or lost revenues from the Mercantile Self-Direct program in its Rider EE-PDR
4 true-up calculations.

5 **Q. DID THE TRUE-UP CALCULATION INCLUDE ANY PRIOR-PERIOD**
6 **TRUE-UP AMOUNTS?**

7 A. Yes. To maintain continuity of the true-up mechanism from one year to the next,
8 the filing includes the net reconciliation balances from the prior years – 2012, 2013,
9 2014, 2015, 2016, 2017, 2018, and 2019 in this case. The Company filed its 2012
10 reconciliation numbers in Case No. 13-753-EL-RDR. The Company filed its 2013
11 reconciliation numbers in Case No. 14-457-EL-RDR. The Company filed its 2014
12 reconciliation numbers in Case No. 15-534-EL-RDR. The Company filed its 2015
13 reconciliation numbers in pending Case No. 16-664-EL-RDR. The Company filed
14 its 2016 reconciliation numbers in Case No. 17-781-EL-RDR. The Company filed
15 its 2017 reconciliation numbers in Case No. 18-397-EL-RDR. The Company filed
16 its amended 2018 reconciliation numbers in December 2019 in pending Case No.
17 19-622-EL-RDR, and then a second set of amended 2018 numbers in March 2022
18 in the same case with a Second Amended Application, in accordance with the Fifth
19 Entry. The Company filed its 2019 reconciliation numbers in April 2020 in
20 pending Case No. 20-613-EL-RDR. The Company filed its initial 2020
21 reconciliation numbers in its original Application in this proceeding, which is being
22 amended today. This filing contains adjusted numbers for 2018, 2019, and 2020
23 that include the \$7.8 million cap on shared savings, and these numbers include costs

1 incurred in 2021 pursuant to the Low Income Entry, and which do not include any
2 lost distribution revenues occurring after December 31, 2020, in accordance with
3 the Fifth Entry.

III. RIDER EE-PDR RECONCILIATION RATE CALCULATION

4 **Q. PLEASE DESCRIBE IN DETAIL THE RIDER EE-PDRR RATE**
5 **CALCULATIONS CONTAINED IN ATTACHMENT JEZ-1.**

6 A. Attachment JEZ-1 shows the calculation of the Rider EE-PDRR recovery rates.
7 Page 1 shows the calculation of the Company's shared savings achievement tier.
8 The Company earned a capped pre-tax shared savings amount of \$7.8 million for
9 the reasons given earlier in my testimony.

10 Page 2 summarizes the Rider EE-PDRR revenue requirement data from
11 page 5. The total 2020 revenue requirement is \$30,852,426. This figure includes
12 \$200,158 of Mercantile Self-Direct program cost recovery; however, no shared
13 savings incentives are included for the self-direct program.

14 Page 3 of Attachment JEZ-1 shows the 2018 EE/PDR program details and
15 results. The sheet shows the kWh and kW impacts, the shared savings calculations,
16 the program cost recovery numbers, and the total revenue requirement associated
17 with each of the residential and non-residential programs. This prior-year data is
18 included because Case No. 19-622-EL-RDR is still pending before the
19 Commission. The shared savings are capped at \$7.8 million.

20 Page 4 of Attachment JEZ-1 shows the 2019 EE/PDR program details and
21 results. The sheet shows the kWh and kW impacts, the shared savings calculations,
22 the program cost recovery numbers, and the total revenue requirement associated

1 with each of the residential and non-residential programs. This prior-year data is
2 included because Case No. 20-613-EL-RDR is still pending before the
3 Commission. The shared savings are capped at \$7.8 million.

4 Page 5 of Attachment JEZ-1 shows the 2020 EE/PDR program details and
5 results. The sheet shows the kWh and kW impacts, the shared savings calculations,
6 the program cost recovery numbers, and the total revenue requirement associated
7 with each of the residential and non-residential programs. The shared savings are
8 capped at \$7.8 million.

9 Page 6 of Attachment JEZ-1 shows the 2019 Rider EE-PDRR revenues by
10 base rate class and month. Total revenue recovery during 2019 was \$45,266,057.

11 Page 7 of Attachment JEZ-1 shows the 2020 Rider EE-PDRR revenues by
12 base rate class and month. Total revenue recovery during 2020 was \$30,526,967.

13 Page 8 of Attachment JEZ-1 shows the actual 2019 kWh usage by month
14 for Rate DS, Rate DP, and Rate TS accounts. The total 2019 kWh numbers for
15 these rates are used to calculate the lost revenue dollars included in Rider EE-PDRR
16 associated with these three base rates. This prior-year data is included because Case
17 No. 20-613-EL-RDR is still pending before the Commission.

18 Page 9 of Attachment JEZ-1 shows the actual 2020 kWh usage by month
19 for Rate DS, Rate DP, and Rate TS accounts. The total 2020 kWh numbers for
20 these rates are used to calculate the lost revenue dollars included in Rider EE-PDRR
21 associated with these three base rates. The lost revenue dollars do not include any
22 lost revenues occurring after December 31, 2020, in accordance with the Fifth
23 Entry.

1 Page 10 of Attachment JEZ-1 shows the forecasted kWh billing
2 determinants for the period July 2021 through June 2022.³ These kWh figures are
3 used in the denominators of the final rate calculations that appear on page 11.

4 Page 11 shows the Rider EE-PDRR rate calculations that true-up 2020 and
5 2021 costs and revenues. The total revenues to be recovered after reconciling all
6 previous years' collections are \$14,295,404 as shown on this page. Those revenues
7 are then grossed up by the Commercial Activity Tax factor of 1.0026068 to a total
8 revenue requirement of \$14,332,669. This translates into a rate of \$.000625 per
9 kWh for residential customers; \$.000800 per KWh for non-residential customers
10 other than those taking service under rates DS, DP, TS and RTP; and \$.000821 per
11 kWh for those non-residential customers taking service under rates DS, DP, TS and
12 RTP.

IV. CONCLUSION

13 **Q. HOW DOES THE COMPANY PROPOSE THAT ITS TARIFFS,**
14 **INCLUDING THE PREVIOUSLY DISCUSSED RATES AND CHARGES,**
15 **BE IMPLEMENTED?**

16 A. Duke Energy Ohio proposes that the revised tariffs, including the rates and charges
17 to be issued pursuant to the Commission's Order in this case, be effective for twelve
18 months for all customers on a bills-rendered basis.

19 **Q. WERE THE ATTACHMENTS DISCUSSED ABOVE PREPARED BY YOU**
20 **OR UNDER YOUR SUPERVISION?**

³The Company is aware that the Commission has ordered utilities to wind-down their existing energy efficiency programs by December 31, 2020. However, the rate calculation assumes twelve months of recovery.

1 A. Yes.

2 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

3 A. Yes.

Duke Energy Ohio
2020 True Up
Shared Savings Achievements and Revenue Requirement Compared to Cap

Achievement Level

2020 Achievement from Shared Savings Portfolio	262,355
1 + Use of Incentive Bank, if any	0
= Total Claimed Impacts	262,355
/ Mandate excluding Mercantile	195,241
= Achievement	134%
- Achievement for 2020	218,670
= Impacts to Bank, if any	43,685

Achievement Tiers

Achievement of Annual Target	After-Tax Shared Savings
≤100	0.0%
>100-106	6.0%
≥106-112	9.0%
>112	12.0%

Shared Savings Rate and Tax Gross-up

After-Tax Achievement Rate	12.0%
/ Tax Grossup Factor	77.8410%
= Pre-Tax Achievement Rate	15.42%

Shared Savings Cap

2 After-Tax Achievement Cap	\$6,071,598
/ Tax Grossup Factor	77.8410%
= Pre-Tax Achievement Cap	\$7,800,000

Shared Savings, Capped

Shared Savings Achievement, Uncapped	\$16,024,333
- Pre-Tax Achievement Cap	\$7,800,000
= Shared Savings Achievement, Compared to Cap	\$8,224,333

3 Shared Savings Achievement, Capped per Order in Case No. 16-0576-EL-POR on 11/18/20 **\$7,800,000**

Revenue Requirement: Cost Recovery Revenue

Cost Recovery Revenue	\$20,772,414
Total Revenue, Capped	\$28,572,414
Total Revenue Requirement (incl lost revenues)	\$30,852,426

Bank

Starting Incentive Bank from Prior Year's True-up Filing	523,571
- Use of Incentive Bank, if any	0
+ Banked Impacts	43,685
= Ending Incentive Bank	567,256

1 - Use of incentive bank to achieve incentive level is disallowed per settlement agreement in Case Nos. 14-0457-EL-RDR and 15-0534-EL-RDR.

2- Caps as set in order in Case No. 16-576-EL-POR

3 - Shared savings has been adjusted per the 11/18/20 order in Case No. 16-0576-EL-POR. Duke Energy Ohio is seeking rehearing on this case.

Duke Energy Ohio
2020 True Up
Total Revenue Requirement

	Res	NonRes	Total
Shared Savings Revenue*	17,675,314	10,696,942	28,372,256
Lost Revenues 2020	0	2,280,012	2,280,012
Mercantile Self-Direct Cost Recovery		200,158	200,158
Total Revenue Requirement	17,675,314	13,177,112	30,852,426

* Shared savings has been adjusted per the 11/18/20 order in Case No. 16-0576-EL-POR. Duke Energy Ohio is seeking rehearing on this case.

Duke Energy Ohio
2018 True Up - Program Summary

PAGE 3 OF 11

		Impacts & Participants			Shared Savings Calculation: (Avoided Cost minus Program Costs) x Sharing Rate											Cost Recovery				Revenue Requirement																																			
Program	Unit Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T																																		
		Annual KWH Gross FR, @ Plant Total (Annualized)	Annual KW Gross FR, @ Plant Total (Annualized)	Participants	Total NPV Avoided Cost of Capacity / Total	Total NPV Avoided Cost of Energy / Total	Total NPV Avoided Cost of T&O / Total	Total Avoided Costs	Total Costs	Shared Savings Pool	Shared Savings Tier, pre-tax	Shared Savings Revenue, Uncapped	Non-M&V Costs	M&V Costs	Total Costs	Cost Recovery Revenue	Incentive Cap Adjustment	Shared Savings Revenue, Capped Per 2/23/22 Order*	Total Revenue	Lost Revenue Make-Whole \$	Total Revenue Requirement																																		
		KWH data	KW data	# of Measure Units data	\$ data	\$ data	\$ data	D+E+F	\$ O	G-H	% data	I x J	\$ data	\$ data	L+M	\$ N	\$ data	K+P	O+Q	\$ data	\$ R+S																																		
Shared Savings Recovery																																																							
Res																																																							
Energy Efficiency																																																							
Energy Efficiency Education Program for Schools		3,548,712	994	6,634	\$	611,553	\$	855,583	\$	576,425	\$	2,043,561	\$	547,145	\$	1,496,415	15.42%	\$	230,747	\$	439,803	\$	107,341	\$	547,145	\$	547,145	\$	(134,199)	\$	96,548	\$	643,694	\$	-	\$	643,694																		
Home Energy Comparison Report		102,340,433	26,146	398,070	\$	2,397,604	\$	3,008,408	\$	2,314,232	\$	7,720,295	\$	3,728,702	\$	3,991,593	15.42%	\$	615,504	\$	3,585,408	\$	143,291	\$	3,728,702	\$	3,728,702	\$	(357,968)	\$	257,536	\$	3,986,238	\$	-	\$	3,986,238																		
Low Income Neighborhood Program		463,046	143	1,024	\$	98,664	\$	120,432	\$	99,892	\$	318,988	\$	433,888	\$	134,900	15.42%	\$	(20,802)	\$	423,301	\$	30,587	\$	453,888	\$	453,888	\$	(2,098)	\$	(8,704)	\$	445,184	\$	-	\$	445,184																		
Low Income Weatherization - Pay for Performance		1,033,388	130	12,859	\$	70,722	\$	101,214	\$	65,790	\$	338,736	\$	208,866	\$	121,859	15.42%	\$	38,791	\$	208,866	\$	-	\$	208,866	\$	208,866	\$	(10,930)	\$	7,862	\$	214,729	\$	-	\$	214,729																		
Residential Energy Assessments		3,277,173	373	15,173	\$	395,181	\$	1,309,821	\$	420,384	\$	2,125,387	\$	1,117,050	\$	1,008,337	15.42%	\$	155,486	\$	1,030,158	\$	106,891	\$	1,117,050	\$	1,117,050	\$	(90,428)	\$	65,058	\$	1,182,107	\$	-	\$	1,182,107																		
Smart Savers® Residential		112,457,951	12,109	9,854,713	\$	9,093,955	\$	12,889,119	\$	15,934,518	\$	58,813,091	\$	10,402,802	\$	48,412,789	15.42%	\$	7,465,252	\$	10,276,803	\$	125,999	\$	10,402,802	\$	10,402,802	\$	(4,341,677)	\$	3,123,575	\$	13,526,377	\$	-	\$	13,526,377																		
Total		223,317,803	39,893	2,328,473	\$	13,565,728	\$	38,374,578	\$	19,412,241	\$	71,352,547	\$	16,456,453	\$	54,896,094		\$	8,464,978	\$	15,942,340	\$	514,113	\$	16,456,453	\$	16,456,453	\$	(4,931,102)	\$	3,541,875	\$	19,998,328	\$	-	\$	19,998,328																		
Demand Response																																																							
Power Manager®			71,424		\$	6,867,383	\$	-	\$	6,545,820	\$	13,413,203	\$	1,002,774	\$	12,410,429	15.42%	\$	1,913,688	\$	922,574	\$	80,200	\$	1,002,774	\$	1,002,774	\$	(1,112,972)	\$	800,716	\$	1,803,490	\$	-	\$	1,803,490																		
Total			71,424		\$	6,867,383	\$	-	\$	6,545,820	\$	13,413,203	\$	1,002,774	\$	12,410,429		\$	1,913,688	\$	922,574	\$	80,200	\$	1,002,774	\$	1,002,774	\$	(1,112,972)	\$	800,716	\$	1,803,490	\$	-	\$	1,803,490																		
NonRes																																																							
Energy Efficiency																																																							
Power Manager® for Business- EE		637,523	235	682	\$	162,407	\$	159,722	\$	152,730	\$	474,908	\$	514,286	\$	(39,377)	15.42%	\$	514,286	\$	-	\$	514,286	\$	514,286	\$	514,286	\$	3,331	\$	(2,541)	\$	511,745	\$	1,132,85	\$	512,878																		
Small Business Energy Saver		16,365,054	2,058	15,116,778	\$	2,519,343	\$	5,218,064	\$	2,440,493	\$	10,177,901	\$	3,450,384	\$	6,747,517	15.42%	\$	1,040,467	\$	3,375,517	\$	54,767	\$	3,430,384	\$	3,430,384	\$	(665,120)	\$	435,347	\$	3,865,731	\$	623,361,74	\$	4,489,093																		
Smart Savers® Non Residential Custom		29,056,802	3,613	4,070	\$	3,246,080	\$	9,218,805	\$	3,710,912	\$	16,175,897	\$	3,321,038	\$	12,854,858	15.42%	\$	1,982,219	\$	3,151,234	\$	169,804	\$	3,321,038	\$	3,321,038	\$	(1,152,829)	\$	829,391	\$	4,150,429	\$	638,187,90	\$	4,788,617																		
Smart Savers® Non Residential Prescriptive		76,758,424	13,054	1,008,544	\$	8,798,493	\$	17,729,451	\$	8,127,239	\$	34,502,383	\$	8,167,493	\$	26,333,890	15.42%	\$	4,090,686	\$	7,923,118	\$	245,374	\$	8,167,492	\$	8,167,492	\$	(2,361,633)	\$	1,699,853	\$	9,866,545	\$	2,093,212,10	\$	11,968,762																		
Total		121,827,510	19,859	16,210,074	\$	14,722,373	\$	32,126,342	\$	14,481,374	\$	61,330,088	\$	15,433,200	\$	45,896,888		\$	7,077,300	\$	14,964,254	\$	468,945	\$	15,433,200	\$	15,433,200	\$	(4,116,050)	\$	2,961,250	\$	18,394,450	\$	3,345,900	\$	21,740,349																		
Demand Response																																																							
Power Manager® for Business- DR			1,500		\$	71,401	\$	-	\$	68,058	\$	139,458	\$	-	\$	139,458	15.42%	\$	21,504	\$	-	\$	-	\$	-	\$	-	\$	(12,507)	\$	8,998	\$	8,998	\$	-	\$	8,998																		
PowerShare®			49,317		\$	4,782,862	\$	-	\$	4,624,964	\$	9,341,769	\$	1,793,190	\$	7,550,578	15.42%	\$	1,164,299	\$	1,752,962	\$	38,228	\$	1,791,190	\$	1,791,190	\$	(677,188)	\$	487,160	\$	2,278,351	\$	-	\$	2,278,351																		
Total			50,817		\$	4,854,263	\$	-	\$	4,624,964	\$	9,481,227	\$	1,793,190	\$	7,690,037		\$	1,185,804	\$	1,752,962	\$	38,228	\$	1,791,190	\$	1,791,190	\$	(689,646)	\$	496,158	\$	2,287,349	\$	-	\$	2,287,349																		
Total		345,145,812	181,956	18,538,547	\$	40,009,747	\$	70,500,919	\$	45,064,399	\$	155,577,065	\$	34,683,617	\$	120,893,448		\$	18,641,770	\$	33,582,130	\$	1,101,487	\$	34,683,617	\$	34,683,617	\$	(10,841,770)	\$	7,800,000	\$	42,483,617	\$	3,345,900	\$	45,829,517																		
Cost Recovery Only																																																							
NonRes																																																							
Energy Efficiency																																																							
Mercantile Self Direct		2,270,635	460	130,638																																																			
Total		2,270,635	460	130,638																																																			
Total		2,270,635	460	130,638																																																			
Other EE Programs and Impacts																																																							
Res																																																							
Energy Efficiency																																																							
Low Income Weatherization		330,068	89	313																																																			
Total		330,068	89	313																																																			
Total		330,068	89	313																																																			
Total		347,746,516	182,505	18,669,498	\$	40,009,747	\$	70,500,919	\$	45,064,399	\$	155,577,065	\$	34,683,617	\$	120,893,448		\$	18,641,770	\$	33,826,778	\$	1,101,487	\$	34,928,265	\$	34,928,265	\$	(10,841,770)	\$	7,800,000	\$	42,728,265	\$	3,345,900	\$	46,074,165																		
Energy Efficiency																																																							
Res Total		223,647,971	39,944	2,328,786	\$	13,565,728	\$	38,374,578	\$	19,412,241	\$	71,352,547	\$	16,456,453	\$	54,896,094		\$	8,464,978	\$	15,942,340	\$	514,113	\$	16,456,453	\$	16,456,453	\$	(4,923,102)	\$	3,541,875	\$	19,998,328	\$	-	\$	19,998,328																		
NonRes Total		124,098,545	20,320	16,340,712	\$	14,722,373	\$	32,126,342	\$	14,481,374	\$	61,330,088	\$	15,433,200	\$	45,896,888		\$	7,077,300	\$	15,208,302	\$	468,945	\$	15,677,848	\$	15,677,848	\$	(4,116,050)	\$	2,961,250	\$	18,639,098	\$	3,345,900	\$	21,984,997																		
Demand Response																																																							
Res Total		0	71,424	0	\$	6,867,383	\$	-	\$	6,545,820	\$	13,413,203	\$	1,002,774	\$	12,410,429		\$	1,913,688	\$	922,574	\$	80,200	\$	1,002,774	\$	1,002,774	\$	(1,112,972)	\$	800,716	\$	1,803,490	\$	-	\$	1,803,490																		
NonRes Total		0	50,817	0	\$	4,854,263	\$	-	\$	4,624,964	\$	9,481,227	\$	1,793,190	\$	7,690,037		\$	1,185,804	\$	1,752,962	\$	38,228	\$	1,791,190	\$	1,791,190	\$	(689,646)	\$	496,158	\$	2,287,349	\$	-	\$	2,287,349																		

Shared savings has been adjusted after the 2/23/2022 order in Case No. 16-0978-EL-POR. Duquesne Energy Ohio reserves its rights to appeal on this case.

Impacts & Participants				Shared Savings Calculation: (Avoided Cost minus Program Costs) x Sharing Rate								Cost Recovery				Capped Revenue			Revenue Requirement	
Program	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	
	Annual KWH Gross FR, @ Plant Total (Annualized)	Annual KW Gross FR, @ Plant Total (Annualized)	Participants	Total NPV Avoided Cost of Capacity / Total	Total NPV Avoided Cost of Energy / Total	Total NPV Avoided Cost of T&D / Total	Total Avoided Costs	Total Costs	Shared Savings Pool	Shared Savings Tier, pre-tax	Shared Savings Revenue, Uncapped	Non-M&V Costs	M&V Costs	Total Costs	Cost Recovery Revenue	Incentive Cap Adjustment	Shared Savings Revenue, Capped	Total Revenue	Lost Revenue Make-Whole \$	Total Revenue Requirement
Unit Type	KWH data	KW data	# of Measure Units data	\$ data	\$ data	\$ data	\$ D+E+F	\$ O	\$ G-H	% data	\$ I x J	\$ data	\$ data	\$ L+M	\$ N	\$ data	K+P	O+Q	\$ data	\$ R+S
Shared Savings Recovery																				
Res																				
Energy Efficiency																				
Energy Efficiency Education Program for Schools	3,743,426	1,005	6,998	\$ 722,664	\$ 1,044,492	\$ 677,783	\$ 2,444,939	\$ 588,894	\$ 1,856,044	15.42%	\$ 286,202	\$ 585,948	\$ 2,946	\$ 588,894	\$ 588,894	\$ (250,666)	\$ 35,536	\$ 624,431	\$ -	\$ 624,431
Home Energy Comparison Report	93,716,994	23,943	358,956	\$ 2,610,557	\$ 3,654,621	\$ 2,492,530	\$ 8,757,708	\$ 2,551,218	\$ 6,206,491	15.42%	\$ 957,041	\$ 2,540,892	\$ 10,326	\$ 2,551,218	\$ 2,551,218	\$ (1,085,998)	\$ (128,898)	\$ 2,422,320	\$ -	\$ 2,422,320
Low Income Neighborhood Program	603,322	187	1,340	\$ 132,882	\$ 166,641	\$ 133,851	\$ 433,374	\$ 577,536	\$ (144,162)	15.42%	\$ (22,230)	\$ 461,127	\$ 116,409	\$ 577,536	\$ 577,536	\$ (245,831)	\$ (268,061)	\$ 309,475	\$ -	\$ 309,475
Low Income Weatherization - Pay for Performance	692,984	93	9,016	\$ 56,098	\$ 144,227	\$ 52,569	\$ 252,895	\$ 211,158	\$ 41,736	15.42%	\$ 5,257	\$ -	\$ 211,158	\$ 211,158	\$ 211,158	\$ (89,881)	\$ (83,445)	\$ 127,713	\$ -	\$ 127,713
Residential Energy Assessments	4,170,491	385	18,001	\$ 388,113	\$ 1,630,160	\$ 394,016	\$ 2,412,289	\$ 1,073,007	\$ 1,339,282	15.42%	\$ 206,517	\$ 1,069,453	\$ 3,554	\$ 1,073,007	\$ 1,073,007	\$ (456,731)	\$ (250,214)	\$ 822,794	\$ -	\$ 822,794
Smart Saver® Residential	128,956,863	14,196	2,161,052	\$ 10,975,762	\$ 35,208,515	\$ 17,262,199	\$ 63,446,476	\$ 10,686,442	\$ 52,760,034	15.42%	\$ 8,135,597	\$ 10,457,060	\$ 229,382	\$ 10,686,442	\$ 10,686,442	\$ (4,548,737)	\$ 3,586,860	\$ 14,273,302	\$ -	\$ 14,273,302
Total	231,884,080	39,808	2,555,363	\$ 14,886,077	\$ 41,848,656	\$ 21,012,949	\$ 77,747,681	\$ 15,688,256	\$ 62,059,425	\$	\$ 9,569,563	\$ 15,325,639	\$ 362,617	\$ 15,688,256	\$ 15,688,256	\$ (6,677,783)	\$ 2,891,780	\$ 18,580,036	\$ -	\$ 18,580,036
Demand Response																				
Power Manager®		71,506		\$ 7,428,415	\$ -	\$ 7,087,691	\$ 14,516,106	\$ 1,587,960	\$ 12,928,146	15.42%	\$ 1,993,520	\$ 1,452,662	\$ 135,298	\$ 1,587,960	\$ 1,587,960	\$ (675,923)	\$ 1,317,597	\$ 2,905,557	\$ -	\$ 2,905,557
Total		71,506		\$ 7,428,415	\$ -	\$ 7,087,691	\$ 14,516,106	\$ 1,587,960	\$ 12,928,146	\$	\$ 1,993,520	\$ 1,452,662	\$ 135,298	\$ 1,587,960	\$ 1,587,960	\$ (675,923)	\$ 1,317,597	\$ 2,905,557	\$ -	\$ 2,905,557
NonRes																				
Energy Efficiency																				
Power Manager® for Business - EE	924,501	341	989	\$ 242,467	\$ 244,913	\$ 226,789	\$ 714,170	\$ 806,567	\$ (92,397)	15.42%	\$ (14,248)	\$ 806,567	\$ -	\$ 806,567	\$ 806,567	\$ (349,555)	\$ (363,803)	\$ 442,764	\$ 33,198	\$ 475,962
Small Business Energy Saver	11,336,843	2,034	10,260,212	\$ 1,777,699	\$ 3,800,676	\$ 2,182,237	\$ 7,360,612	\$ 2,218,735	\$ 5,141,876	15.42%	\$ 792,877	\$ 2,218,735	\$ -	\$ 2,218,735	\$ 2,218,735	\$ (961,570)	\$ (168,693)	\$ 2,050,042	\$ 807,043	\$ 2,857,085
Smart Saver® Non Residential Custom	22,293,076	4,051	9,208	\$ 3,787,830	\$ 7,584,769	\$ 4,835,691	\$ 16,208,291	\$ 2,776,874	\$ 13,431,417	15.42%	\$ 2,071,124	\$ 2,777,239	\$ (365)	\$ 2,776,874	\$ 2,776,874	\$ (1,203,460)	\$ 867,664	\$ 3,644,538	\$ 619,048	\$ 4,263,586
Smart Saver® Non Residential Performance Incentive	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ 5,257	\$ (5,257)	15.42%	\$ (811)	\$ 5,257	\$ 5,257	\$ 5,257	\$ 5,257	\$ (2,278)	\$ (3,089)	\$ 2,168	\$ -	\$ 2,168
Smart Saver® Non Residential Prescriptive	44,816,037	8,126	587,754	\$ 7,849,106	\$ 15,447,783	\$ 8,180,547	\$ 31,477,437	\$ 3,599,502	\$ 27,877,934	15.42%	\$ 4,298,777	\$ 3,585,285	\$ 14,218	\$ 3,599,502	\$ 3,599,502	\$ (1,559,977)	\$ 2,738,801	\$ 6,338,303	\$ 2,444,974	\$ 8,783,277
Total	79,370,457	14,551	10,858,163	\$ 13,657,102	\$ 27,078,142	\$ 15,025,265	\$ 55,760,509	\$ 9,406,935	\$ 46,353,573	\$	\$ 7,147,721	\$ 9,939,082	\$ 13,853	\$ 9,406,935	\$ 9,406,935	\$ (4,076,841)	\$ 3,070,880	\$ 12,477,815	\$ 3,904,263	\$ 16,382,078
Demand Response																				
Power Manager® for Business - DR		3,920		\$ 322,752	\$ -	\$ 307,948	\$ 630,699	\$ -	\$ 630,699	15.42%	\$ 97,254	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 97,254	\$ 97,254	\$ -	\$ 97,254
PowerShare®		78,387		\$ 7,453,085	\$ -	\$ 7,492,882	\$ 15,345,967	\$ 3,308,207	\$ 12,037,759	15.42%	\$ 1,856,223	\$ 3,269,108	\$ 39,099	\$ 3,308,207	\$ 3,308,207	\$ (1,433,733)	\$ 422,489	\$ 3,730,697	\$ -	\$ 3,730,697
Total		82,307		\$ 8,175,837	\$ -	\$ 7,800,830	\$ 15,976,666	\$ 3,308,207	\$ 12,668,459	\$	\$ 1,953,476	\$ 3,269,108	\$ 39,099	\$ 3,308,207	\$ 3,308,207	\$ (1,433,733)	\$ 519,743	\$ 3,827,951	\$ -	\$ 3,827,951
Total	311,254,537	208,172	13,413,526	\$ 44,147,431	\$ 68,926,797	\$ 50,926,734	\$ 164,000,962	\$ 29,991,359	\$ 134,009,603	\$	\$ 20,664,281	\$ 29,440,491	\$ 550,867	\$ 29,991,359	\$ 29,991,359	\$ (12,864,281)	\$ 7,800,000	\$ 37,791,359	\$ 3,904,263	\$ 41,695,622
Cost Recovery Only																				
NonRes																				
Energy Efficiency																				
Mercantile Self-Direct	3,122,202	415	1,219									\$ 230,964	\$ -	\$ 230,964	\$ 230,964	\$ -	\$ -	\$ 230,964	\$ -	\$ 230,964
Total	3,122,202	415	1,219									\$ 230,964	\$ -	\$ 230,964	\$ 230,964	\$ -	\$ -	\$ 230,964	\$ -	\$ 230,964
Total	3,122,202	415	1,219									\$ 230,964	\$ -	\$ 230,964	\$ 230,964	\$ -	\$ -	\$ 230,964	\$ -	\$ 230,964
Other EE Programs and Impacts																				
Res																				
Energy Efficiency																				
Low Income Weatherization	372,249	100	353																	
Total	372,249	100	353																	
Total	372,249	100	353																	
Total	314,748,988	208,687	13,415,098	\$ 44,147,431	\$ 68,926,797	\$ 50,926,734	\$ 164,000,962	\$ 29,991,359	\$ 134,009,603	\$	\$ 20,664,281	\$ 29,671,456	\$ 550,867	\$ 30,222,323	\$ 30,222,323	\$ (12,864,281)	\$ 7,800,000	\$ 38,022,323	\$ 3,904,263	\$ 41,926,586
Energy Efficiency																				
Res Total	232,256,329	39,908	2,555,716	\$ 14,886,077	\$ 41,848,656	\$ 21,012,949	\$ 77,747,681	\$ 15,688,256	\$ 62,059,425	\$	\$ 9,569,563	\$ 15,325,639	\$ 362,617	\$ 15,688,256	\$ 15,688,256	\$ (6,677,783)	\$ 2,891,780	\$ 18,580,036	\$ -	\$ 18,580,036
NonRes Total	82,492,659	14,966	10,859,382	\$ 13,657,102	\$ 27,078,142	\$ 15,025,265	\$ 55,760,509	\$ 9,406,935	\$ 46,353,573	\$	\$ 7,147,721	\$ 9,624,047	\$ 13,853	\$ 9,637,900	\$ 9,637,900	\$ (4,076,841)	\$ 3,070,880	\$ 12,708,780	\$ 3,904,263	\$ 16,613,043
Demand Response																				
Res Total	0	71,506	0	\$ 7,428,415	\$ -	\$ 7,087,691	\$ 14,516,106	\$ 1,587,960	\$ 12,928,146	\$	\$ 1,993,520	\$ 1,452,662	\$ 135,298	\$ 1,587,960	\$ 1,587,960	\$ (675,923)	\$ 1,317,597	\$ 2,905,557	\$ -	\$ 2,905,557
NonRes Total	0	82,307	0	\$ 8,175,837	\$ -	\$ 7,800,830	\$ 15,976,666	\$ 3,308,207	\$ 12,668,459	\$	\$ 1,953,476	\$ 3,269,108	\$ 39,099	\$ 3,308,207	\$ 3,308,207	\$ (1,433,733)	\$ 519,743	\$ 3,827,951	\$ -	\$ 3,827,951

Shared Savings Recovery										Cost Recovery				Capped Revenue			LR\$ KWH and KW	Revenue Requirement
Res										NonRes				Total			Total	Total
Energy Efficiency										Demand Response				Energy Efficiency			Demand Response	Energy Efficiency
Power Manager®										Power Manager®				Power Manager®			Power Manager®	Power Manager®
Total										Total				Total			Total	Total
NonRes										Energy Efficiency				Demand Response			Energy Efficiency	Demand Response
Power Manager® for Business - EE										Power Manager® for Business - DR				Power Manager® for Business - EE			Power Manager® for Business - DR	Power Manager® for Business - EE
Smart Saver® Non Residential Custom										Smart Saver® Non Residential Performance Incentive				Smart Saver® Non Residential Prescriptive			Smart Saver® Non Residential Custom	Smart Saver® Non Residential Performance Incentive
Total										Total				Total			Total	Total
Demand Response										Energy Efficiency				Demand Response			Energy Efficiency	Demand Response
Power Manager® for Business - DR										Power Manager® for Business - EE				Power Manager® for Business - DR			Power Manager® for Business - EE	Power Manager® for Business - DR
Total										Total				Total			Total	Total
Total										Total				Total			Total	Total
Cost Recovery Only										Energy Efficiency				Demand Response			Energy Efficiency	Demand Response
NonRes										Energy Efficiency				Demand Response			Energy Efficiency	Demand Response
Mercantile Self-Direct										Power Manager® for Business - EE				Power Manager® for Business - DR			Power Manager® for Business - EE	Power Manager® for Business - DR
Total										Total				Total			Total	Total
Total										Total				Total			Total	Total
Other EE Programs and Impacts										Energy Efficiency				Demand Response			Energy Efficiency	Demand Response
Res										NonRes				Total			Total	Total
Energy Efficiency										Demand Response				Energy Efficiency			Demand Response	Energy Efficiency
Low Income Weatherization										Power Manager® for Business - EE				Power Manager® for Business - DR			Power Manager® for Business - EE	Power Manager® for Business - DR
Total										Total				Total			Total	Total
Total										Total				Total			Total	Total
Total										Total				Total			Total	Total
Energy Efficiency										Demand Response				Energy Efficiency			Demand Response	Energy Efficiency
Res Total										Res Total				Res Total			Res Total	Res Total
NonRes Total										NonRes Total				NonRes Total			NonRes Total	NonRes Total
Demand Response										Energy Efficiency				Demand Response			Energy Efficiency	Demand Response
Res Total										Res Total				Res Total			Res Total	Res Total
NonRes Total										NonRes Total				NonRes Total			NonRes Total	NonRes Total

DUKE ENERGY OHIO
RIDER EE-PDRR REVENUES

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Rider Revenue Rate 2019

Sum of RIDER EE	Column Labels												
Row Labels	1/1/2019	2/1/2019	3/1/2019	4/1/2019	5/1/2019	6/1/2019	7/1/2019	8/1/2019	9/1/2019	10/1/2019	11/1/2019	12/1/2019	Grand Total
DM	\$72,557	\$71,371	\$66,625	\$58,821	\$56,450	\$63,191	\$204,247	\$203,798	\$290,814	\$262,486	\$226,248	\$269,520	\$1,846,129
DP	\$260,865	\$245,391	\$238,847	\$243,936	\$259,786	\$262,605	\$632,781	\$607,373	\$902,643	\$842,823	\$782,682	\$794,929	\$6,074,662
DS	\$904,180	\$862,163	\$828,882	\$807,478	\$835,024	\$915,376	\$2,138,290	\$2,075,948	\$3,118,572	\$2,859,177	\$2,555,537	\$2,667,256	\$20,567,883
EH	\$14,403	\$15,298	\$13,141	\$9,924	\$7,919	\$146	\$147	-\$210	\$177	\$31,683	\$33,552	\$46,302	\$172,481
GF	\$3,490	\$3,490	\$3,490	\$3,490	\$3,490	\$3,490	\$8,831	\$8,880	\$13,201	\$13,201	\$13,201	\$13,201	\$91,457
OR	\$3,106	\$2,809	\$2,427	\$1,524	\$1,128	\$1,248	\$679	\$584	-\$528	-\$455	-\$649	-\$960	\$10,914
RS	\$2,533,547	\$2,506,287	\$2,183,941	\$1,678,573	\$1,484,766	\$1,872,844	\$1,097,716	\$1,087,802	-\$864,086	-\$752,957	-\$596,357	-\$818,093	\$11,413,983
SF	\$7	\$7	\$7	\$7	\$7	\$7	\$19	\$19	\$28	\$28	\$28	\$28	\$192
TD	\$105	\$101	\$95	\$65	\$52	\$64	\$39	\$41	-\$27	-\$30	-\$26	-\$33	\$447
TS	\$224,088	\$221,476	\$219,391	\$244,721	\$233,023	\$184,021	\$562,692	\$504,728	\$763,512	\$712,600	\$694,530	\$455,944	\$5,020,726
CUR	\$13,727	\$12,706	\$12,126	\$10,710	\$9,036	\$8,878							\$67,183
Grand Total	\$4,030,075	\$3,941,100	\$3,568,973	\$3,059,251	\$2,890,681	\$3,311,870	\$4,645,441	\$4,488,963	\$4,224,307	\$3,968,556	\$3,708,746	\$3,428,094	\$45,266,057

DUKE ENERGY OHIO
RIDER EE-PDRR REVENUES

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Rider Revenue Rate 2020

Sum of RIDER EE	Column Labels												Grand Total
Row Labels	1/1/2020	2/1/2020	3/1/2020	4/1/2020	5/1/2020	6/1/2020	7/1/2020	8/1/2020	9/1/2020	10/1/2020	11/1/2020	12/1/2020	
DM	\$273,267	\$260,994	\$245,619	\$200,025	\$189,898	\$243,084	\$297,806	\$291,542	\$283,090	\$221,315	\$215,373	\$267,249	\$2,989,262
DP	\$763,885	\$665,559	\$627,053	\$566,291	\$508,288	\$637,856	\$598,566	\$522,747	\$474,254	\$427,391	\$408,763	\$417,212	\$6,617,865
DS	\$2,644,028	\$2,417,182	\$2,217,079	\$1,901,180	\$1,818,283	\$2,146,351	\$2,453,264	\$2,363,193	\$2,337,574	\$1,976,939	\$1,883,483	\$2,039,863	\$26,198,420
EH	\$46,402	\$34,296	\$39,668	\$23,973	\$19,777	\$859	\$897	\$1,006	\$1,259	\$19,600	\$21,653	\$35,091	\$244,480
GF	\$13,117	\$13,201	\$13,180	\$13,181	\$13,180	\$13,181	\$13,181	\$13,181	\$13,181	\$13,181	\$13,181	\$13,181	\$158,123
OR	-\$913	-\$948	-\$780	-\$587	-\$515	-\$519	-\$617	-\$556	-\$522	-\$404	-\$548	-\$919	-\$7,827
RS	-\$850,415	-\$791,279	-\$728,884	-\$614,838	-\$592,358	-\$763,676	-\$1,006,386	-\$985,467	-\$889,927	-\$594,270	-\$583,059	-\$826,560	-\$9,227,117
SF	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$331
TD	-\$36	-\$36	-\$32	-\$27	-\$25	-\$29	-\$36	-\$34	-\$33	-\$21	-\$23	-\$33	-\$364
TS	\$451,338	\$447,459	\$436,688	\$399,751	\$297,917	\$339,385	\$221,489	\$245,982	\$201,106	\$193,955	\$159,741	\$158,982	\$3,553,794
Grand Total	\$3,340,700	\$3,046,455	\$2,849,619	\$2,488,977	\$2,254,473	\$2,616,520	\$2,578,192	\$2,451,622	\$2,420,011	\$2,257,713	\$2,118,591	\$2,104,094	\$30,526,967

DUKE ENERGY OHIO

KWH BY MONTH AND RATE FOR RATES DS, DP, AND TS
JANUARY 2019 - DECEMBER 2019

Sum of	USAGE	Column Labels						
Row Labels	DP	DS	TS	Grand Total	LR Rate	Lost Rev		
1/1/2019	166,281,243	541,817,102	278,907,572	987,005,917	\$ 0.000265	\$ 261,557		
2/1/2019	156,786,543	516,613,885	262,698,466	936,098,894	\$ 0.000265	\$ 248,066		
3/1/2019	152,910,133	496,587,966	261,088,440	910,586,539	\$ 0.000265	\$ 241,305		
4/1/2019	158,057,965	483,508,104	283,136,681	924,702,750	\$ 0.000265	\$ 245,046		
5/1/2019	169,669,833	500,083,832	268,229,343	937,983,008	\$ 0.000265	\$ 248,565		
6/1/2019	172,277,270	548,159,244	140,944,480	861,380,994	\$ 0.000265	\$ 228,266		
7/1/2019	203,709,568	619,319,203	305,682,943	1,128,711,714	\$ (0.000086)	\$ (97,069)		
8/1/2019	190,961,731	596,933,046	395,736,356	1,183,631,133	\$ (0.000086)	\$ (101,792)		
9/1/2019	190,779,589	609,653,294	283,639,932	1,084,072,815	\$ (0.000142)	\$ (153,938)		
10/1/2019	176,224,118	553,512,056	168,455,296	898,191,470	\$ (0.000142)	\$ (127,543)		
11/1/2019	161,753,271	494,498,625	354,169,916	1,010,421,812	\$ (0.000142)	\$ (143,480)		
12/1/2019	165,256,491	516,955,969	286,156,204	968,368,664	\$ (0.000142)	\$ (137,508)		
Grand Total	2,064,667,755	6,477,642,326	3,288,845,629	11,831,155,710		\$ 711,475		

DUKE ENERGY OHIO

KWH BY MONTH AND RATE FOR RATES DS, DP, AND TS
JANUARY 2019 - DECEMBER 2019

Sum of	USAGE	Column Labels								
Row Labels		DP	DS	TS	Grand Total		LR Rate		Lost Rev	
1/1/2020		161,638,371	518,944,335	268,058,123	948,640,829	\$	(0.000142)	\$	(134,707)	
2/1/2020		153,633,680	493,913,533	254,681,083	902,228,296	\$	(0.000142)	\$	(128,116)	
3/1/2020		154,910,605	479,075,574	271,342,285	905,328,464	\$	(0.000142)	\$	(128,557)	
4/1/2020		146,949,870	421,335,188	218,980,164	787,265,222	\$	(0.000142)	\$	(111,792)	
5/1/2020		145,706,392	406,002,172	154,916,097	706,624,661	\$	(0.000142)	\$	(100,341)	
6/1/2020		173,274,309	487,075,870	309,370,075	969,720,254	\$	(0.000142)	\$	(137,700)	
7/1/2020		187,832,590	563,777,397	145,433,015	897,043,002	\$	(0.000142)	\$	(127,380)	
8/1/2020		187,880,976	551,877,492	428,956,108	1,168,714,576	\$	(0.000142)	\$	(165,957)	
9/1/2020		185,315,774	551,073,778	101,922,337	838,311,889	\$	(0.000142)	\$	(119,040)	
10/1/2020		162,553,762	474,894,498	353,065,912	990,514,172	\$	(0.000142)	\$	(140,653)	
11/1/2020		158,412,366	480,552,943	278,186,929	917,152,238	\$	(0.000142)	\$	(130,236)	
12/1/2020		157,212,808	496,188,520	265,407,649	918,808,977	\$	(0.000142)	\$	(130,471)	
Grand Total		1,975,321,503	5,924,711,300	3,050,319,777	10,950,352,580			\$	(1,554,950)	

Duke Energy Ohio
Energy Efficiency and Peak Demand Response Rider
Summary of Billing Determinants

Year

July 2021 - June 2022

Projected Annual Electric Sales KWH

Residential Rates RS, ORH, TD, RS3P, RSLI, TD-13

7,137,485,280

Non-Residential Rates

DS, DP, DM, GS-FL, EH, SP, SFL-ADPL, TS, RTP, & CUR

12,050,465,071

Non-Residential Rates

DS, DP, & TS

11,296,754,433

Duke Energy Ohio
Energy Efficiency and Peak Demand Response Rider
Summary of Calculations

PAGE 11 OF 11

2020 Annual Filing

Rate Schedule	2012-2014 Actual Program Costs & Shared Savings		2012-2014 Actual Lost Revenues (DS, DP, TS)		2012-2014 Actual Riders EE-PDRR / SAWR Revenues		2015-2016 Actual Program Costs & Shared Savings		2015-2016 Actual Lost Revenues (DS, DP, TS)		2015-2016 Actual Riders EE-PDRR Revenues		2020 Actual Program Costs & Shared Savings		2020 Lost Revenues (DS, DP, TS)		Total Revenue Requirements		Total Revenue Requirements Plus CAT (b)		Estimated Billing Determinants		True-up Rates Energy Efficiency and Peak Demand Response Recovery Rider (EE-PDRR)																
	Case No. 13-753, 14-457, 15-534 (c)										Case No. 16-664, 17-781 (as-filed)										Case No. 21-482-EL-RDR										A+B+C+D+E+F+G+H+ AA+BB+CC+DD+EE+FF+ GG+HH+I+JJ+KK								
	A	B	C	D	E	F	G	H	A+B+C+D+E+F+G+H+ AA+BB+CC+DD+EE+FF+ GG+HH+I+JJ+KK																														
Electric Rider DSM	(d)	(a)		(d)	(a)		(d)	(a)																															
Residential Rates RS, ORH, TD, RS3P, RSLI, TD-13	\$	57,060,033	\$	-	\$	(48,028,991)	\$	29,362,643	\$	-	\$	(49,952,525)	\$	17,675,314	\$	-	\$	4,446,326	\$	4,457,917	7,137,485,280	kWh	\$	0.000625	S/kWh														
Distribution Level Rates - Program Cost Recovery (Part A)																																							
Applies to Rates DS, DP, DM, GS-FL, EH, SFL-ADPL, TS, RTP, & CUR	\$	52,456,573	\$	-	\$	(46,708,059)	\$	46,692,759	\$	-	\$	(31,280,600)	\$	10,897,100	\$	-	\$	9,619,654	\$	9,644,730	12,050,465,071	kWh	\$	0.000800	S/kWh														
Distribution Level Rates - Lost Revenue Recovery (Part B)																																							
Applies to Rates DS, DP, TS, & RTP		\$	5,653,696		\$	(6,770,213)		\$	4,078,295		\$	(6,451,585)		\$	-	\$	2,280,012		\$	229,424		\$	230,022	11,296,754,433	kWh	\$	0.000020	S/kWh											
Total Recovery	\$	109,516,606	\$	5,653,696	\$	(101,507,263)	\$	76,055,402	\$	4,078,295		\$	(87,684,710)		\$	28,572,414		\$	2,280,012		\$	14,295,404		\$	14,332,669														
	2017 Actual Program Costs & Shared Savings		2017 Actual Lost Revenues (DS, DP, TS)		2017 Actual Riders EE-PDRR Revenues		2018 Actual Program Costs & Shared Savings		2018 Actual Lost Revenues (DS, DP, TS)		2018 Actual Riders EE-PDRR Revenues		2019 Actual Program Costs & Shared Savings		2019 Actual Lost Revenues (DS, DP, TS)		2019 Actual Riders EE-PDRR Revenues		2020 Actual Riders EE-PDRR Revenues		Adjustments From Orders in Case No. 14-457, 15-534		Adjustments From Orders in 16-664, 17-781, 18-397																
Case No. 18-397-EL-RDR (as-filed)										Case No. 19-622-EL-RDR (pending)										Case No. 20-613-EL-RDR (pending)																			
	AA (d)	BB (a)	CC	DD	EE	FF	GG	HH	II	KK	(Amounts Included in Column A)										JJ																		
Electric Rider DSM	(d)	(a)																																					
Residential Rates RS, ORH, TD, RS3P, RSLI, TD-13	\$	9,085,353	\$	-	\$	(23,932,826)	\$	21,801,819	\$	-	\$	(26,861,932)	\$	21,485,593			\$	(11,425,344)		\$	9,235,309		\$	(1,861,446)		\$	(1,058,118)												
Distribution Level Rates - Program Cost Recovery (Part A)																																							
Applies to Rates DS, DP, DM, GS-FL, EH, SFL-ADPL, TS, RTP, & CUR	\$	42,365,306	\$	-	\$	(15,032,339)	\$	20,926,446	\$	-	\$	(15,304,186)	\$	16,536,730			\$	(33,129,238)		\$	(38,207,325)		\$	(3,137,530)		\$	(593,514)												
Distribution Level Rates - Lost Revenue Recovery (Part B)																																							
Applies to Rates DS, DP, TS, & RTP	\$	-	\$	2,801,537		\$	(3,138,204)	\$	-	\$	3,345,900		\$	(3,207,852)			\$	3,904,263		\$	(711,475)		\$	(1,554,950)															
Total Recovery	\$	51,450,660	\$	2,801,537		\$	(42,103,370)	\$	42,728,265	\$	3,345,900		\$	(45,373,970)		\$	38,022,323		\$	3,904,263		\$	(45,266,057)		\$	(30,526,966)													
Total Charge for Residential Rates RS, ORH, TD, RS3P, RSLI, TD-2013																										\$	0.000625	S/kWh											
Total Charge for Rates DM, GS-FL, EH, SFL-ADPL, & CUR (Part A Only)																										\$	0.000800	S/kWh											
Total Charge for Rates DS, DP, TS, & RTP (Part A plus Part B)																										\$	0.000821	S/kWh											

Note: (a) Rider DDR (Distribution Decoupling Rider) does not apply to Rates DS, DP, and TS. These rates are therefore subject to lost distribution revenue recovery under Rider EE-PDR.

(b) Commercial Activity Tax (CAT) factor is 1.0026068

(c) Includes adjustments ordered in Case No. 14-457-EL-RDR and 15-534-EL-RDR. Adjustments are shown in GG.

(d) M&M costs are included in the Shared Savings calculation per the order in Case No. 13-753-EL-RDR

Duke Energy Ohio
139 East Fourth Street
Cincinnati, Ohio 45202

**RIDER EE-PDRR
ENERGY EFFICIENCY AND PEAK DEMAND RESPONSE RECOVERY RATE**

The EE-PDRR rate shall be determined in accordance with the provisions of Rider EE-PDR, Energy Efficiency and Peak Demand Response Recovery rider, Sheet No. 120 of this Tariff.

The EE-PDRR rate to be applied to residential service customer bills is \$0.~~000000~~000625 per kilowatt-hour.

The EE-PDRR rate to be applied to non-residential service customer bills, other than service under Rates DS, DP, TS, and RTP for distribution service is \$0.~~000000~~000800 per kilowatt-hour.

The EE-PDRR rate to be applied to non-residential service customer bills, for service under Rates DS, DP, TS, and RTP for distribution service is \$0.~~000000~~000821 per kilowatt-hour.

This Rider is subject to reconciliation, including, but not limited to, refunds or additional charges to customers, ordered by the Commission as the result of audits by the Commission in accordance with the December 19, 2018, Opinion and Order in Case No. 17-1263-EL-SSO, et al.

Filed pursuant to Orders dated ~~November 18, 2020~~ _____ in Case No. ~~4621-576482-EL-POR-RDR~~
before the Public Utilities Commission of Ohio.

Issued: ~~November 30, 2020~~

Effective: ~~January 1, 2021~~

Issued by Amy B. Spiller, President

Duke Energy Ohio
139 East Fourth Street
Cincinnati, Ohio 45202

**RIDER EE-PDRR
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The EE-PDRR rate to be applied to non-residential service customer bills, other than service under Rates DS, DP, TS, and RTP for distribution service is \$0.000800 per kilowatt-hour.

The EE-PDRR rate to be applied to non-residential service customer bills, for service under Rates DS, DP, TS, and RTP for distribution service is \$0.000821 per kilowatt-hour.

This Rider is subject to reconciliation, including, but not limited to, refunds or additional charges to customers, ordered by the Commission as the result of audits by the Commission in accordance with the December 19, 2018, Opinion and Order in Case No. 17-1263-EL-SSO, et al.

Filed pursuant to Orders dated _____ in Case No. 21-482-EL-RDR before the Public Utilities
Commission of Ohio.

Issued:

Effective:

Issued by Amy B. Spiller, President

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Case No(s). 21-0482-EL-RDR

Summary: Testimony Supplemental Testimony of James E. Ziolkowski
electronically filed by Mrs. Tammy M. Meyer on behalf of Duke Energy Ohio Inc.
and D'Ascenzo, Rocco and Vaysman, Larisa and Kingery, Jeanne W.