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-RD		
and Performance Incentives Related to its)	
Energy Efficiency and Demand Response)	
Programs.		

DIRECT TESTIMONY OF

JAMES E. ZIOLKOWSKI

ON BEHALF OF

DUKE ENERGY OHIO, INC.

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I. <u>INTRODUCTION</u>

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.	PLEASE SUMMARIZE YOUR EDUCATION AND PROFESSIONAL
10		EXPERIENCE.
11	A.	I received a Bachelor of Science degree in Mechanical Engineering from the U.S.
12		Naval Academy in 1979 and a Master of Business Administration degree from
13		Miami University in 1988. I am also a licensed Professional Engineer in the state
14		of Ohio.
15		After graduating from the Naval Academy, I attended the Naval Nuclear
16		Power School and other follow-on schools. I served as a nuclear-trained officer on
17		various ships in the U.S. Navy through 1986. From 1988 through 1990, I worked
18		for Mobil Oil Corporation as a Marine Marketing Representative in the New York
19		City area.
20		I joined The Cincinnati Gas & Electric Company (CG&E) in 1990 as a
21		Product Applications Engineer, in which capacity I designed and managed some of
22		CG&E's demand side management programs, including Energy Audits and

Interruptible Rates. From 1996 until 1998, I was an Account Engineer and worked with large customers to resolve various service-related issues, particularly in the areas of billing, metering, and demand management. In 1998, I joined Cinergy Services, Inc.'s, Rate Department, where I focused on rate design and tariff administration. I was significantly involved with the initial unbundling and design of CG&E's retail electric rates. I was appointed to my current position in January 2014.

Α.

8 Q. PLEASE DESCRIBE YOUR DUTIES AS DIRECTOR, RATES AND 9 REGULATORY PLANNING.

I am responsible for various rider filings, tariff administration, billing, and revenue reporting issues in Ohio and Kentucky. I also prepare filings to modify charges and terms in retail tariffs of Duke Energy Ohio and Duke Energy Kentucky, Inc., (Duke Energy Kentucky) and develop rates for new services. During rate cases, I prepare cost of service studies and help with the design of the new base rates. I assisted in the development of the retail electric tariffs in the Company's Case No. 03-93-EL-ATA, which established the Company's market-based standard service offer. Additionally, I frequently work with customer contact and billing personnel of Duke Energy Ohio and Duke Energy Kentucky to answer rate-related questions and to apply the retail tariffs to specific situations. Occasionally, I meet with customers and Company representatives to explain rates or provide rate training. I also prepare reports that are required by regulatory authorities.

1	Q.	HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE PUBLIC UTILITIES
2		COMMISSION OF OHIO?
3	A.	Yes. Recently, I provided testimony before the Public Utilities Commission of Ohio
4		(Commission) in support of Duke Energy Ohio's electric distribution base rate case
5		and Electric Security Plan, filed under Case Number 17-0032-EL-AIR and Case No.
6		17-1263-EL-SSO, respectively. I was also a witness in the Company's Electric
7		Security Plan case, filed under Case Number 14-841-EL-SSO and the Energy
8		Efficiency cases, filed under Case Number 16-576-EL-POR, 13-753-EL-RDR, Case
9		No. 14-457-EL-RDR, Case No. 15-534-EL-RDR, Case No. 16-664-EL-RDR, Case
10		No. 17-781-EL-RDR, Case No. 18-397-EL-RDR, Case No. 19-622-EL-RDR, and
11		Case No. 20-613-EL-RDR.
12	Q.	WHAT ARE THE ATTACHMENTS AND SCHEDULES FOR WHICH YOU
13		ARE RESPONSIBLE?
14	A.	I am sponsoring the following items:
15		• Attachment JEZ-1 – Work papers showing the calculation of Rider EE-PDRR
16		rates
17		• Attachment JEZ-2 – Proposed Rider EE-PDRR tariff sheet – redlined
18		• Attachment JEZ-3 – Proposed Rider EE-PDRR tariff sheet – clean
19	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS
20		PROCEEDING?
21	A.	The purpose of my testimony in this proceeding is to: (i) describe the calculation of
22		the Rider EE-PDRR rate update, including the true-up for the year 2020 and clarify
23		assumptions underlying the calculations and (ii) discuss the distribution decoupling

1 mechanism, Rider DDR, as approved in Case No. 11-5905-EL-RDR and its effect on 2 lost margin recovery. The Company's electric tariff contains two shared savings-3 related sheets. Rider EE-PDR describes the calculations of the shared savings recovery charges, and Rider EE-PDRR contains the results of the calculations, i.e., the 4 5 retail recovery rates.

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

7 A. Rider EE-PDR is the mechanism through which the revenue requirement and its true-up is recovered from residential and non-residential customers. Rider EE-8 9 PDRR contains the results of the calculations, *i.e.*, the retail recovery rates.

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

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This true-up analysis addresses the calendar year 2020. As part of the true-up A. 12 calculation, the reconciliation balances (i.e., actual costs including lost revenues, and actual EE-PDRR revenues) from 2012, 2013, 2014, 2015, 2016, 2017, 2018, 13 14 and 2019, as filed in Case No. 13-753-EL-RDR, Case No. 14-457-EL-RDR, Case 15 No. 15-534-EL-RDR, Case No. 16-664-EL-RDR, Case No. 17-781-EL-RDR, Case 16 No. 18-397-EL-RDR, and the pending Case Nos. 19-622-EL-RDR and 20-613-EL-17 RDR respectively, are carried forward and included in the revenue requirement. This true-up constitutes the Company's "application for a final reconciliation of 18 19 [its] EE/PDR cost recovery rider," which the Company was instructed to file by the 20 Commission. Thus, as detailed further below and in Attachment JEZ-1, it includes all of the Company's claimed cost recovery that is associated with programs

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 (November 18, 2020).

- 1 conducted through December 31, 2020.
- 2 Q. DO YOUR CALCULATIONS TAKE INTO ACCOUNT THE \$7.8 MILLION
- 3 PRE-TAX SHARED SAVINGS CAP IMPOSED BY THE COMMISSION IN
- 4 ITS NOVEMBER 18, 2020 THIRD ENTRY ON REHEARING, TO WHICH
- 5 THE COMPANY'S REHEARING CHALLENGE IS PENDING?
- 6 A. No, my calculations do not take into account the shared savings cap imposed by the
 7 Commission, which would require that shared savings not exceed \$7.8 million (pre-
- 8 tax).² The total amount of shared savings in this Application is \$10,277,360 (pre-
- 9 tax) which is equivalent to \$8,000,000 after-tax. The Company's application for
- rehearing challenging the \$7.8 million pre-tax shared savings cap is still pending
- before the Commission.³ In the absence of an order on its pending rehearing
- application, the Company files this Application for the full stipulated amount of the
- \$8 million after-tax shared savings value contained in the Amended Stipulation
- dated January 27, 2017 in Case No. 16-576-EL-POR, in order to preserve its rights
- to recovery pending rehearing and/or appeal.
- 16 Q. WHAT IS THE TOTAL AMOUNT OF SHARED SAVINGS THE
- 17 COMPANY IS REQUESTING TO INCLUDE IN THIS FILING ASSUMING
- 18 THE \$8 MILLION AFTER-TAX CAP?
- 19 A. The Company requests to include \$10,277,360 of pre-tax shared savings in this

² 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, Third Entry on Rehearing, pp. 22-23 (November 18, 2020) (Third Entry on Rehearing).

³ See 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, Duke Energy Ohio Inc.'s Application for Rehearing (December 18, 2020); 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, Fourth Entry on Rehearing (January 13, 2021).

- 1 filing.
- 2 Q. WHAT WOULD THE TOTAL AMOUNT OF SHARED SAVINGS BE IF,
- 3 ON REHEARING, THE COMMISSION ORDERED THE COMPANY TO
- 4 ONLY COLLECT AT THE \$7.8 MILLION PRE-TAX CAP?
- 5 A. \$7,800,000. As described above, the Company disagrees with the imposition of
- 6 this cap on its shared savings and has a pending rehearing application challenging
- 7 the Commission's imposition of this cap. However, in the interest of transparency,
- 8 I am providing the amount here.

II. CALCULATION OF EE-PDR REVENUE REQUIREMENT

- 9 Q. WHAT LEVEL OF ACHIEVEMENT IS THE COMPANY CLAIMING?
- 10 A. Duke Energy Ohio exceeded its efficiency and peak demand mandates for 2020.
- Per the stipulation in Case No. 16-576-EL-POR and the approved waiver, and
- pending a resolution of its ongoing challenge on rehearing to the \$7.8 million pre-
- tax shared savings cap imposed by the Commission in its November 18, 2020, Third
- 14 Entry on Rehearing in Case No. 16-576-EL-POR, the Company is claiming an
- after-tax shared savings achievement of \$8 million. This equates to \$10,277,360
- on a pre-tax basis.
- 17 Q. IS THE COMPANY INCLUDING CARRYING COSTS ON LOST
- 18 MARGINS IN THIS APPLICATION?
- 19 A. No.
- 20 Q. PLEASE EXPLAIN HOW DISTRIBUTION LOST MARGINS ARE
- 21 CALCULATED.
- 22 A. The DSMoreTM model calculates the kWh and kW reductions associated with each

1	program measure. Based upon the units of participation and load reductions per
2	program measure, the Company then applies lost margin rates to these reductions
3	to calculate the lost margin dollars to be recovered.

4 Q. WHAT IS THE DIFFERENCE BETWEEN LOST REVENUES AND LOST

5 MARGINS?

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A. In general terms, lost margins equal lost revenues minus variable costs. For example, the lost margin associated with generation would be equal to the total generation revenue minus fuel costs (which are variable) minus any other variable O&M costs. Rider EE-PDR allows for the recovery of distribution lost margins, and the Company requests in this filing to recover distribution lost margins associated with Rider EE-PDR measures.

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

A. The calculated lost margins include only distribution margins associated with non-residential customers taking service under Rate DS, Rate DP, and Rate TS. The 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 Company's decoupling rider, Rider DDR (Distribution Decoupling Rider), which was approved in Case No. 11-5905-EL-RDR.

Q. FOR WHAT TIME PERIODS ARE LOST MARGINS INCLUDED IN THIS

TRUE-UP?

A. This true-up includes lost margins for 2020, 2021, 2022, and 2023, as depicted on page 2 of Attachment JEZ-1. These lost margins are collectively attributable to measures installed by the Company in 2017, 2018, 2019, and/or 2020. In its Third

1	Entry on Rehearing in Case No. 16-576-EL-POR, the Commission determined that
2	the Company "may not continue to recover lost distribution revenue after December
3	31, 2020, even if the lost distribution revenue is attributed to energy savings
4	achieved in 2018, 2019 or 2020." The Company has sought rehearing on this
5	point, and its application currently remains pending. Accordingly, to preserve its
6	right to complete recovery, the Company includes the disputed lost margins in this
7	true-up and reconciliation Application.

8 Q. DID THE DIRECT PROGRAM COSTS FOR 2020 INCLUDE INCENTIVE

- **PAY?**
- 10 A. Yes. The direct program costs for 2020 include \$293,681 of incentive pay. In past
 11 cases, Staff has distinguished between "non-financial" and "financial" incentives,
 12 and recommended exclusion of "financial incentives, based upon a utility's
 13 financial goals" from recovery.⁵
- 14 Q. WHAT PROPORTION OF THE INCENTIVE PAY INCLUDED IN
- 15 DIRECT PROGRAM COSTS FOR 2020 IS TIED TO MEASURES OTHER
- 16 THAN THE COMPANY'S FINANCIAL PERFORMANCE, SUCH AS
- 17 OPERATIONAL GOALS, SAFETY GOALS, AND OTHER NON-
- 18 FINANCIAL GOALS?
- 19 A. \$108,446 of the total incentive pay is tied to the Company's financial performance.
- \$185,235 of the total incentive pay is tied to non-financial measures and goals.
- 21 Included within the \$185,235 is \$39,884 of restricted stock units (RSUs). Although

⁴ Third Entry on Rehearing, p. 24.

⁵ 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).

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:

		% Related to Financial	Amount Related to Financial	Amount Not Related to Financial
	Amount	Performance	Performance	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?

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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?

18 A. No. The Company included the energy and capacity savings from the Mercantile
19 Self-Direct program in determining its performance against the benchmarks set
20 forth in Section 4928.66, Ohio Revised Code, but it did not include any avoided

- 1 costs or lost revenues from the Mercantile Self-Direct program in its Rider EE-PDR
 2 true-up calculations.
- 3 Q. DID THE TRUE-UP CALCULATION INCLUDE ANY PRIOR-PERIOD
- 4 TRUE-UP AMOUNTS?
- 5 Yes. To maintain continuity of the true-up mechanism from one year to the next, Α. 6 the filing includes the net reconciliation balances from the prior years – 2012, 2013, 7 2014, 2015, 2016, 2017, 2018, and 2019 in this case. The Company filed its 2012 8 reconciliation numbers in Case No. 13-753-EL-RDR. The Company filed its 2013 9 reconciliation numbers in Case No. 14-457-EL-RDR. The Company filed its 2014 10 reconciliation numbers in Case No. 15-534-EL-RDR. The Company filed its 2015 reconciliation numbers in pending Case No. 16-664-EL-RDR. The Company filed 11 its 2016 reconciliation numbers in Case No. 17-781-EL-RDR. The Company filed 12 13 its 2017 reconciliation numbers in Case No. 18-397-EL-RDR. The Company filed 14 its amended 2018 reconciliation numbers in December 2019 in pending Case No. 15 19-622-EL-RDR. The Company filed its 2019 reconciliation numbers in pending 16 Case No. 20-613-EL-RDR. Upon receipt of an order in Case No. 19-622-EL-RDR 17 and Case No. 20-613-EL-RDR, the Company will make adjustments to this filing.

III. RIDER EE-PDR RECONCILATION RATE CALCULATION

- 18 Q. PLEASE EXPLAIN HOW THE COMPANY'S DISTRIBUTION
- 19 **DECOUPLING RIDER AFFECTS THE RIDER EE/PDR TRUE-UP**
- 20 CALCULATIONS.
- 21 A. Rider DDR was approved on May 30, 2012 in Case No. 11-5905-EL-RDR. On
- January 1, 2012, the Company began tracking the authorized distribution revenues

for each rate class covered by the rider against the actual revenues for the rate
classes covered by the rider. On February 24, 2021, the Company filed an
application in Case No. 21-0098-EL-RDR to update Rider DDR rates for each rate
class. The latest Rider DDR filing covers the period January 1, 2020 through
December 31, 2020. In a letter dated April 27, 2021, Staff recommended approval
of the filing. The lost margin dollars in this Rider EE-PDR true-up filing are based
on lost kWh and kW for year 2020. Because Rider DDR does not apply to Rates
DS, DP, and TS, only those three base rates are subject to lost margin recovery
pursuant to Rider EE-PDRR.

10 Q. PLEASE DESCRIBE IN DETAIL THE RIDER EE-PDRR RATE 11 CALCULATIONS CONTAINED IN ATTACHMENT JEZ-1.

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Attachment JEZ-1 shows the calculation of the Rider EE-PDRR recovery rates. Page 1 shows the calculation of the Company's shared savings achievement tier. The Company earned a capped pre-tax shared savings amount of \$10,277,360, for the reasons given earlier in my testimony.

Page 2 summarizes the Rider EE-PDRR revenue requirement data from page 4. The total 2020 revenue requirement is \$36,857,710. This figure includes \$200,158 of Mercantile Self-Direct program cost recovery; however, no shared savings incentives are included for the self-direct program. The total includes lost revenues for 2021, 2022, and 2023 that are associated with equipment installed in 2020 or before, for the reasons given earlier in my testimony.

Page 3 of Attachment JEZ-1 shows the 2019 EE/PDR program details and results. The sheet shows the kWh and kW impacts, the shared savings calculations,

1	the program cost recovery numbers, and the total revenue requirement associated
2	with each of the residential and non-residential programs. This prior-year data is
3	included because Case No. 20-613-EL-RDR is still pending before the
4	Commission.
5	Page 4 of Attachment JEZ-1 shows the 2020 EE/PDR program details and
6	results. The sheet shows the kWh and kW impacts, the shared savings calculations
7	the program cost recovery numbers, and the total revenue requirement associated
8	with each of the residential and non-residential programs.
9	Page 5 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 6 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 7 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 8 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.

Page 9 of Attachment JEZ-1 shows the forecasted kWh billing determinants

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for the period July 2021 through June 2022.⁶ These kWh figures are used in the denominators of the final rate calculations that appear on page 10.

Page 10 shows the Rider EE-PDRR rate calculations that true-up 2020 costs and revenues. The total revenues to be recovered after reconciling all previous years collections are \$25,255,408 as shown on this page. Those revenues are then grossed up by the Commercial Activity Tax factor of 1.0026068 to a total revenue requirement of \$25,321,244. This translates into a rate of \$.001282 per kWh for residential customers; \$.001026 per KWh for non-residential customers other than those taking service under rates DS, DP, TS and RTP; and \$.001363 per kWh for those non-residential customers taking service under rates DS, DP, TS and RTP. As I previously discussed, the Company carries forward prior period reconciliation balances, including revenues. Upon receipt of a final order in Case No. 19-622-EL-RDR and in Case No. 20-613-EL-RDR, the Company will adjust this filing if necessary, to reflect any changes to the as-filed numbers in that case.

Page 11 is a summary table that shows the amount of lost revenues for 2021 through 2023 included in the total revenue requirement that are associated with measures implemented in 2020 and prior years.

IV. CONCLUSION

18 Q. HOW DOES THE COMPANY PROPOSE THAT ITS TARIFFS,

19 INCLUDING THE PREVIOUSLY DISCUSSED RATES AND CHARGES,

20 BE IMPLEMENTED?

⁶The 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. Duke Energy Ohio proposes that the revised tariffs, including the rates and charges
- 2 to be issued pursuant to the Commission's Order in this case, be effective for twelve
- months for all customers on a bills-rendered basis.
- 4 Q. WERE THE ATTACHMENTS DISCUSSED ABOVE PREPARED BY YOU
- 5 **OR UNDER YOUR SUPERVISION?**
- 6 A. Yes.
- 7 Q. DOES THIS CONCLUDE YOUR TESTIMONY?
- 8 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	262,104
1 _+ Use of Incentive Bank, if any	0
= Total Claimed Impacts	262,104
/ Mandate excluding Mercantile	195,241
= Achievement	134%
- Achievement for 2020	218,670
= Impacts to Bank, if any	43,434
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	\$8,000,000
/ Tax Grossup Factor	77.8410%
= Pre-Tax Achievement Cap	\$10,277,360
Shared Savings, Capped	
Shared Savings Achievement, Uncapped	\$16,017,561
- Pre-Tax Achievement Cap	\$10,277,360
= Shared Savings Achievement, Compared to Cap	\$5,/40,201
Shared Savings Achievement, Capped	\$10,277,360
Shared Savings Achievement, Capped	\$10,277,300
Revenue Requirement: Cost Recovery Revenue	
Cost Recovery Revenue, Uncapped	\$20,730,877
, , ,	,,,
Total Revenue, Capped	\$31,008,237
Total Revenue Requirement (incl lost revenue)	\$36,857,710

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.

523,571

43,434

567,005

0

- Use of Incentive Bank, if any

+ Banked Impacts

= Ending Incentive Bank

Starting Incentive Bank from Prior Year's True-up Filing

Bank

Achievement Tiers

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

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

Duke Energy Ohio 2020 True Up Total Revenue Requirement

	Res	NonRes	Total
Program Costs and Shared Savings Revenue	19,083,924	11,724,155	30,808,079
Lost Revenues 2020	0	2,280,012	2,280,012
Lost Revenues 2021	0	2,047,876	2,047,876
Lost Revenues 2022	0	1,162,929	1,162,929
Lost Revenues 2023	0	358,655	358,655
Mercantile Self-Direct Cost Recovery		200,158	200,158
Total Revenue Requirement	19,083,924	17,773,786	36,857,710

True Up - Program Summary		u Current Capability Ann (Annual SKW Grass FR.																	LRS KWH and KW	
		Impacts & Participants			-	Shared Savings	Calculation: (Avoided Co	ost minus Program C	octs) x Sharing Rate				Cost Rec	COVERY			Capped	Revenue	+ Revenue	e Requirement
igran	Annual KWR Gross Fl Plant Total (Annualized)	Annual KW Gross FR, @ Plant Total (Assualized)	Participants	Total NPV Assided 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 Cop Adjustment	Shared Savings Revenue, Capped	Total Revenue	Lost Revenue Make Whole S	Total Rev Requires
	Unit KWM	KW.	# of Measure Units	3	3	3	S Defet	5	S GH	5	3	3	S date	S LeM	5	3	Kep	0+0	3	S ReS
ed Savings Recovery	Type deta	dete	data	data	data	dete	Detel	MV Non-MAY	CH	elete	la.)	date	Mate	Lenn		data	Kep	O+Q	data	Res
Rec																				
Energy Efficiency Energy Efficiency Education Program for Schools	374342	1005	6.998	5 722.664	5 1044.492	5 677.783	5 2444 999 5	588.894	1 256 044	15 42%	\$ 286.202	\$ 585.941	5 2.946	\$ 588.894	\$ 588.894	S (202 N	908.58 2 49	5 672.703		
Home Energy Comparison Report	93,716,99		358,956	5 2,610,557						15.42%		5 2,540,892				5 (876,8)				5 2
Low Income Neighborhood Program	603,32		1,340							15.42%		\$ 461,127				5 (198,4)				5
Low Income Weatherization - Pay for Performance	692,98			\$ 56,098						15.42%		\$ 211,158				\$ (72,5)				\$
Residential Energy Assessments	4,170,49 173,954,56		18,001							15.42%		\$ 1,069,453				\$ (368,7				
Smart Saver® Residential	128,950,88 231,884,08		2,161,052 2,555,363					10,688,442		15.42%	5 8,133,597 5 9,569,563	\$ 15,325,635				\$ (3,672,77 \$ (5,391,71				5 1
1008	231,004,00	39,000	2,333,383	3 14,000,077	3 41,846,838	5 21,012,949	3 //,/4/,881 3	13,000,230	5 62,059,425		3,389,363	3 13,323,631	3 302,817	3 13,000,230	3 13,000,230	2 (3,391,7	0) 5 4,177,705	2 19,000,021	, ,	, ,
Demand Response																				
Power Manager*		71,506		\$ 7,428,415		\$ 7,007,691				15.42%		\$ 1,452,662				\$ (545,7				5
Total NonRes		71,506		5 7,428,415		5 7,087,691	\$ 14,516,106 \$	1,587,960	5 12,928,146		1,993,520	\$ 1,452,662	\$ 135,298	\$ 1,587,960	\$ 1,587,960	\$ (545,7	6) \$ 1,447,764	\$ 3,035,724	s .	
Energy Efficiency																				
Power Manager* for Business - EE	924.50	341	989	5 242,467	5 244,913	5 226,789	5 714,170 5	806,567	5 (92,397)	15.42%	5 (14,246)	\$ 806,567	5 - 1	\$ 806,567	\$ 806,567	5 (282.2)	9) 5 (296,487)	\$ 510,000	5 33,198,00	on 4
Small Business Energy Saver	11,336,84		10.260,212	5 1,777,699				2,218,735		15.42%		\$ 2,218,735				\$ (776.30			\$ 807,043.00	
Smart Saver* Non Residential Custom	22,293,07		9,208	\$ 3,787,830						15.42%		\$ 2,777,239				5 (971,7)			\$ 619,048.00	
Smart Saver* Non Residential Performance Incentive			0			s -		5,257	\$ (5,257)	15.42%		\$ 5,257				\$ (1,8)				. s
Smart Saver* Non Residential Prescriptive	44,816,03		587,754	\$ 7,849,106						15.42%		\$ 3,565,285				\$ (1,259,5)				
Total	79,370,45	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	\$ 9,393,082	\$ 13,853	\$ 9,406,935	\$ 9,406,935	\$ (3,291,7	(7) \$ 3,855,984	\$ 13,262,920	\$ 3,904,265	63 5
Demand Response																				
Power Manager* for Business - DR		3,920		\$ 322,752	s - :	5 307,948	\$ 630,699 \$		5 630,699	15.42%	5 97,254	\$ -	\$ -	\$ -	s -	5 -	\$ 97,254	5 97,254	\$ -	\$
PowerShare*		78,587		\$ 7,853,085		5 7,492,882		3,308,207		15.42%		\$ 3,269,100				\$ (1,157,6)				
Total		82,307		\$ 8,175,837	s - :	5 7,800,830	\$ 15,976,666 \$	3,308,207	5 12,668,459		1,953,476	\$ 3,269,108	\$ 39,099	\$ 3,308,207	\$ 3,308,207	\$ (1,157,6:	0) \$ 795,847	\$ 4,104,054	5 .	\$
Total	311,254,53	206,172	13,413,526	\$ 44,147,431	\$ 68,926,797	\$ 50,926,734	\$ 164,000,962 \$	29,991,359	5 134,009,603		\$ 20,664,281	\$ 29,440,493	\$ 550,867 :	\$ 29,991,359	\$ 29,991,359	\$ (10,386,9)	1) \$ 10,277,360	\$ 40,268,719	\$ 3,904,265	83 \$ 4
Recovery Only																				
NonRes Energy Efficiency																				
Mercantile Self-Direct	3.122.20	415	1,219									\$ 230,964		\$ 230,964	\$ 230,964		,	5 230.964		,
Total	3,122,20		1,219									\$ 230,964		\$ 230,964		+ :	+ :	5 230,964	 	-
																		,		
Total	3,122,20	415	1,219									\$ 230,964	5 . :	\$ 230,964	\$ 230,964	5 -	5 -	\$ 230,564	5	5
r ET Programs and Impacts																				
Energy Efficiency																				
Low Income Weatherization	372,24		353																	
Total	372,24	100	353																	
Tatal		100	***																	
otal	372,24	100	555																	
	314,748,98	208,687	13,415,098	5 44,147,431	\$ 68,926,797	5 50,926,734	5 164,000,962 5	29,991,359	5 134,009,603		20,664,281	\$ 29,671,456	\$ 550,867	\$ 30,222,323	\$ 30,222,323	\$ (10,386,9)	1) 5 10,277,360	5 40,499,683	\$ 3,904,265	63 5
Dergy Efficiency Res Total	232,256,32	39,908	2,555,716	5 14,886,077	\$ 41,848,656	5 21,012,949	\$ 77,747,681 \$	15,688,256	\$ 62,059,425		9,599,563	\$ 15,325,635	\$ 362,617	\$ 15,688,256	\$ 15,688,256	\$ (5,391,7	18) \$ 4,177,765	\$ 19,866,021		5 1
Nonflex Total	82,492,65	14,966	10,859,382	5 13,657,102				9,406,935	5 46,353,573		5 7,147,721	5 9,624,047	5 13,853	5 9,637,900		5 (3,291,7)	(7) \$ 3,855,984	5 13,493,884	5 3,994,265	
	anjestjes	14,000	Legionypee	. 13,457,164	- Districted .			.,400,000			1,011,012	- symmetri		. 3,031,544	. 3,000,000	(0,000,00	.,,,		3,000,000	
Demand Response																				
Res Total		71,506	0		\$						1,993,520	5 1,452,662				5 (545,7	6) 5 1,447,764			5
NoeRes Total		82,307	0	\$ 8,175,837	s - :	5 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	\$ (1,157,6)	io) \$ 795,847	\$ 4,104,054	s -	\$
										45.434										
Bowing participants were noted to have Non-Metered rates. Therefore, Non-Metered	their impacts and avoided cost 305,95		OH's shared savings reco 1,506		\$ 99,464	5 61,814	\$ 218,521 \$		\$ 218,521	15.42N	33,696									

Duke Energy Chio	Count Countille to		nuel KW Orress PS, @ Fleen																					
2020 True Up - Program Summery	Annual KNIH Gross FI	4 Annual SKW Gross FR.	# Plant Total																USS KNWH and KNW					
1.0		Impacts & Participants				Shared Savings Co	studience: [decided Co	of manus Program Cos	ils: a Sharing Balle				CI	of Recovery			Capped	Sevenue			List Revenue			
	_ A		c				6	н		, ,				N N		_	Q		- 1	T	U	v .	W	1
Program	Annual KNIN Gross F @ Plant Total (Annualized)	Annual KW Gross FR, @ Plant Total (Annualized)	Persicipants	Total NPV Avoided Cost of Capacity / Total	Cotal NPV Assisted at of Energy / Total	Total NPV Avaided Cost of TSIO / Total	Total Avoided Costs	Total Costs S	Dered Sevings Fool	hared Savings Tier, pre- tax	Shared Savings Invenue, Uncapped	Non-MEV C	sets M&V Coets	Total Costs	Cont Recovery Sevenue	Incentive Cap Adjustment	Shared Savings Revenue, Capped	Total Revenue	Lini Revenue Make Whole S 2020	List Revenue Make Whole S 2021	Last Revenue Make- Whole S 2022	Il Revenue Make- Whole \$ 2023	Whole S Total	Total Revenue Requirement (4)
Unit Tree	YANG	KW	# of Measure Units	3	3	3	S Defer	5	5	A.	5	S	3	1000	3	-	KIP	010	3	dete	and a	date:	SITHURY	5
Shared Savings Recovery			0000		000	oons.	0-0-4	OC HON MANY	-	0000	1.6.5	None School	2000		-			0-4	0000	0000	0000		2-1-0-4	
les .																								
Energy Efficiency																								
Energy Efficiency Education Program for Schools	1,163,07		2,170	\$ 231,485 \$	339,123			107,972 \$		15.42% \$	92,275			\$ 187,97					5			5		\$ 247,179
Home Snergy Comperiors Report Low Income Heighborhood Program	98,924,95	23,996	860,330 483	\$ 2,100,613 S \$ 49,296 S	8,250,682 62,469	\$ 2,041,692 S \$ 49,352 S	7,441,927 5	277,502 \$	4,704,485	13.42% \$	725,792 (3A,890)	\$ 2,7		- \$ 2,793,30 719 \$ 227,67	2 S 2,793,302 6 S 227,676	\$ (260,000	\$ 663,632 \$ (9,334)	\$ 1,200,156 \$ 248,123						\$ 8,301,154
Law Income Weatherization - Pay for Performance	434.70	17	3111	5 9,00 5	95.136	49,152 5	161,116 5	123,734 5	62,066	13424 5	5,453			- 1 121.10	4 5 123,754	5 3,886	5 (8,354)	5 348,123				2		5 127.714
			3,635	5 83.415 5	120.614		117799 5				21 773					5 (7.00)								5 200,001
Smart Saver* Residential	103,991,8	12,549	1,656,344	\$ 9,132,887 \$	27,646,433	\$ 13,179,365 \$	49,935,004 \$	8,200,474 \$	41,492,593	13.42% \$	6,423,963	\$ 8,0	0,486 \$ 169,	ME \$ 8,260,47	4 \$ 8,280,474	\$ (2,805,935	\$ 4,123,017	\$ 12,885,511	1 1			5		\$ 12,885,511
Total	202,596,0	5 36,862	2,050,321	\$ 11,682,793 \$	31,745,427	\$ 15,597,110 \$	\$9,625,330 \$	11,541,260 \$	47,004,061	:	7,260,342	\$ 11,7	3,563 \$ 227,	767 \$ 11,941,26	0 \$ 11,941,260	\$ (2,601,890	\$ 4,658,472	\$ 16,599,741			5 - 5		-	\$ 16,599,741
Demand Response		20.631		5 7643 972 5		5 7295.003 5	14,000,000 5	1121000 5	13 777 997	1545 5	2 124 499		2600 5 95	an 5 1121.00	0 5 1121.039	5 (26) 355	6.5 1363144	5 2494103						
Total		70,631		\$ 7,643,372 5		7,255,023 5				13.42% \$	2,124,499			400 \$ 1,121,00 400 \$ 1,121,00						-			_	5 2494,00
Northes		70,461		3 7,641,172 5		3 7,256,623 5	14,880,186 5	1,121,009 5	14,777,867		2,124,499	\$ 1,0	2,400 5 18,	419 \$ 1,121,01	9 5 1,121,089	\$ (743,866	9.5 1,864,144	3 2,484,181						5 2,484,181
	218.79	117	341	5 96,040 5	17.123	5 79,987 \$	259,859 5	448,804 \$	[194,952]	15425-5	(30.062)			- 2 465.00		3 33,778	3 03.00	3 429,229	3 33,330	3.484	3.00.0	142 3	13.01	3 424,723
Small Business Energy Sever	4,953,00	2 913	4,442,639	\$ 817,893 \$	1,792,795	\$ 813,253 \$	3,335,940 \$	1,139,130 \$	2,196,002	13.42% \$	330,747	\$ 5,0	9,130 \$	 \$ 5,139,13 	0 \$ 1,139,130	\$ (121,396	\$ 217,350°	\$ 1,356,400	\$ 404,322	\$ 346,307	\$ 130,140 \$	41,206 \$	921,976	\$ 2,270,464
Smert Sever® Non Residential Custom	14,423,60	1,762	4,838							13.42% \$	1,040,952	\$ 1,70		 \$ 1,742,84 					\$ 602,399			104,494 \$	1,818,541	\$ 4,027,279
Smart Sever* Non Residential Performance Incentive Smart Sever* Non Residential Prescriptive	39.812.42	7.00	91.75	701340	13,095,779	7 307 892 5	20,022 (7)	340 S	25 (32 93)	15.42% \$	1,573,695			. 5 34	0 5 340	\$ (1,300,033	S (34)	5 6179.829	5 (2027)		emon i	212.000 5	1201244	\$ 307
Smert Sever* Non Residential Prescriptive	39,312,40 59,507,80		911,318 3.858.856		13,090,779					13.42% \$	3,273,466			464 S 3,609,24 494 S 7,020,39		\$ (1,380,059						212,890 S	3,285,744	\$ 9,461,623
Total	10,007,0	1 23,877	s,mana	3 30,141,442 5	20,182,001	5 20,070,000 S	40,804,842 \$	7,830,867 \$	плист		1,221,048	\$ 7,00	4,962 5 11,	464 \$ 7,000,00	7 \$ 7,000,007	\$ (3,872,560	9.5 1,812,141	\$ 10,172,828	\$ 2,280,012	3 2,867,876	3 1,562,829 5	200,000 5	1,000,072	5 56,222,601
Demand Response																								
Power Manager® for Business - DR		3.821		\$ 454,957 \$		5 203,064 5	808.821 5		808.821	13.42% \$	124,720					\$ 944,696	8 90,024	\$ 90,024	4 .					\$ 80,024
PowerDate		35,509		5 4495265 5		4 4205401 5	8292364 5	445,044 5	8.315.520	mah t	1,282,966		5.004 t	- t assoc	4 5 445,044	5 (435.735	5 825,170	5 1,271,205	100					5 1,271,301
Total		0,761		\$ 4,913,221 5		4,663,665 5	9,579,685 \$	448,044 \$	9,128,641	-	1,407,636	1 .	8,000 S	- \$ 465,00	4 \$ 445,044	\$ (100,454	\$ 901,183	\$ 1,851,227			1 - 1			\$ 1,881,227
Total	262.001.6	100,000	7,417,177	\$ 36.000.007 S	\$2,107,440	1 27,275,665 5	124.405.955 \$	20.510.719 \$	201,875,234		16.017.661		5.160 S SE7.	100 S 20.530.72		\$ (5,740,20)	0 5 10,277,000	\$ 10,000,079	\$ 2,200,012	1 2007.075	1 1302.009 1	PMANS S	1,001,071	\$ 36,657,552
Cost Recovery Only																								
Nortes																								
Energy Efficiency Mentantile Self-Cirest	*****																							
Mercanile Self-Cired	LMA	201	256									_	0.138 5	- 5 200,13	8 5 200,158 8 5 200,158	_	+	5 200,158	_					5 300,158
1000			256										0,100 5	- , 200,00				,						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Total	1,946,60	251	256									\$ 20	0,158 \$	- \$ 200,15	E \$ 200,15E	1 -	1	\$ 200,158	\$		1 - 1	- 1		\$ 200,358
Other SS Programs and Impacts																								
le .																								
Energy Efficiency																								
Low Income Weatherization	60,5	1 10	65																					
Total	60,50	1 18	65																					
Total	60.50		65																					
Total	266.118.1	161 160	7,417,488	C MARKAT C	E2 157 AM	5 P7 P95 A65 S	124.405.851 5	20,530,719 \$	203,875,234		16.077.561		0 107 6 107	550 5 M 750.07	7 5 20.730.877	5 (5.740.205	0 5 10,277,360	5 21 000 727	6 1700.017	S TANTON	1 110700 5	298.695 5	5,849,473	\$ 36,857,710
			,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,, ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(341)			-						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(000	-	
tregg titicency																								
Res Total	202,664,5	36,800	2,058,386	\$ 11,682,793 \$	31,745,427	\$ 15,597,110 \$	\$9,625,330 \$	11,541,265 \$	47,004,061	5	7,260,342	\$ 11,7	3,563 \$ 227,	767 \$ 11,941,26	0 \$ 11,541,260	\$ (2,601,890	0 S 4,658,472	\$ 16,599,741	5					\$ 16,599,741
Norther Total	61,664,5	1 30,828	5,355,112	\$ 30,161,462 \$	20,382,063	\$ 30,079,000 \$	40,805,342 \$	7,020,367 \$	33,884,875		5,225,068	\$ 7,21	M,110 \$ 11,	464 \$ 7,230,62	4 \$ 7,230,534	\$ (1,872,602) \$ 1,002,641	\$ 10,575,086	\$ 2,280,012	\$ 2,047,076	\$ 1,142,929 \$	ESE,ASS S	5,845,475	\$ 16,422,668
Demand Browner																								
Res Yotal		30.651		\$ 7,640,572 \$		5 7,255,023 5	14,898,595 \$	1121.039 \$	13,277,557		2.124.499		2,600 5 98.	499 \$ 1,121,00	9 \$ 1,121,029	\$ (761,366	3 1363,144	5 2,494,183						\$ 2494.183
Het Total Norden Total		9,61		5 4,913,221 5			9,576,685 \$	440,044 \$	9,128,648		1,407,636	. 1,0	2,000 S SE, 0,044 S	419 5 1,111,01	4 5 441,044	5 (504,454	0.5 900,160	5 1,351,227						5 1,351,227
		4,41				,000,000 /	Jiron y	-	.,444,044		2,407,000			-		. (- 1,000,000
The Bellowing participants were noted to have Nor-Material rates. Therefore, their Nor-Material	impacts and avoided cod	will not count towards	Office attacked samings rock							13.42% \$														

DUKE ENERGY OHIO RIDER EE-PDRR REVENUES

Rider Revenue Rate 2019

Muci Nevellue Nate	2013												
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 Gi	rand 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

Rider Revenue Rate 2020

Sum of RIDER EE	Column Labels												
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 Gr	and Total
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 Ra	te	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 Ra	te	Los	st 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)

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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

	2012-2014 Actual	2012-2014 Actual	2012-2014 Actual		2015-2016 Actual	2015-2016 Actual	2020 Actual	2020-2023	Total	Total	Estimated	True-up Rates
	Program Costs		Riders EE-PDRR / SAWR	Program Costs	Lost Revenues	Riders EE-PDRR	Program Costs	Lost Revenues	Revenue	Revenue	Billing	Energy Efficiency and Peak
Rate Schedule	& Shared Savings	(DS, DP, TS)	Revenues	& Shared Savings	(DS, DP, TS)	Revenues	& Shared Savings	(DS, DP, TS)	Requirements	Requirements	Determinants	Demand Response Recovery
		Case No. 13-753, 14-457, 15-534	(c)	Case	No. 16-664, 17-781 (a	s-filed)	Case No. 21-	482-EL-RDR		Plus CAT (b)		Rider (EE-PDRR)
	A	D	c	D	E	F	0	н	A+B+C+D+E+F+Q+H+			
									AA+BB+CC+DD+EE+FF+			
Electric Rider DSM	(d)	(a)		(d)	(a)		(d)	(a)	GG+HH+II+JJ+KK			
Residential Rates RS, ORH, TD, RS3P, RSU, TD-13	S 57,060.0	33 S - S	(48.028.991)	S 29.362.643 S	- S	(49,952,525)	S 19.083.924	s -	S 9,126,133 S	9.149.923	7,137,485,280 kWh	S 0.001282 S/kWh
Distribution Level Rates - Program Cost Recovery (Part A)												
Applies to Rates DS. DP. DM. GS-FL. EH. SFL-ADPL, TS. RTP. & CUR	S 52.456.5	573 S - S	(46,708,059)	S 46.692.759 S	- 5	(31.280.600)	\$ 11,924,313	s -	S 12,330,391 S	12.362.534	12.050.465.071 kWh	S 0.001026 S/kWh
.,,,,,,,,,,,,,.	,,		(11)111111	,,		(,,,	,			,,	,,	
Distribution Level Rates - Lost Revenue Recovery (Part B)												
Applies to Rates DS, DP, TS, & RTP		\$ 5,653,696 \$	(6,770,213)	S	4,078,295 S	(6,451,585)	s - I	S 5,849,473	S 3,798,884 S	3,808,787	11,296,754,433 kWh	S 0.000337 S/kWh
replace to natice by, or , 10, at 111		3,030,030	(0,110,220)	•	1,010,233	(0,131,303)	•	0 5,015,110	3,750,001	0,000,101	11,130,131,133	0.000007 0/11111
Total Recovery	S 109.516.6	506 S 5,653,696 S	(101,507,263)	S 76.055,402 S	4,078,295 S	(87,684,710)	S 31,008,237	5 5,849,473	S 25,255,408 S	25,321,244		
Total Recovery	\$ 109,516,6	300 5 5,053,090 5	(101,507,263)	5 /6,055,402 5	4,078,295 \$	(87,084,710)	5 51,008,257	5 5,849,475	\$ 25,255,408 \$	25,321,244		
	2017 Actual	2017 Actual	2017 Actual	2018 Actual	2018 Actual	2018 Actual	2019 Actual	2019 Actual	2019 Actual	2020 Actual	Adjustments	Adjustments
	Program Costs	Lost Revenues	Riders EE-PDRR	Program Costs	Lost Revenues	Riders EE-PDRR	Program Costs	Lost Revenues	Riders EE-PDRR	Riders EE-PDRR	From Orders In	From Orders In
	& Shared Savings	(DS, DP, TS)	Revenues	& Shared Savings	(DS, DP, TS)	Revenues	& Shared Savings	(DS, DP, TS)	Revenues	Revenues	Case No. 14-457, 15-534	16-664, 17-781, 18-397
	a sinarca savings	Case No. 18-397-EL-KUK (as-file			9-622-EL-KUK (85-file			ZU-013-EL-KUK (8)		nerences	Case No. 14 457, 15 554	10 004, 17 701, 10 557
	AA	BB	-, cc	DD	FF	EE.	GG	нн	11	KK	(Amounts Included in Column A)	n n
Electric Rider DSM	(d)	(a)	-					••••	-		(·····	-
Residential Rates RS. ORH. TD. RS3P. RSU. TD-13	S 9.085.1		(23,932,826)	\$ 23,656,863 \$		(26.861.932)	\$ 22,901,745		S (11,425,344) S	9,235,309	S (1,861,446)	\$ (1,058,118)
Residential Rates Ray, ORTI, TD, Rastr, Rati, TD-13	3 9,083,	- 3	(23,532,820)	3 23,030,003 3		(20,001,932)	3 22,501,743		3 (11,423,344) 3	9,233,309	3 (1,001,440)	3 (1,036,116)
Distribution Level Rates - Program Cost Recovery (Part A)												
	\$ 42,365.3			S 21.548.762 S								
Applies to Rates DS, DP, DM, GS-FL, EH, SFL-ADPL, TS, RTP, & CUR	\$ 42,365,3	506 \$ - \$	(15,032,339)	\$ 21,548,762 \$	- \$	(15,304,186)	\$ 17,597,938		\$ (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)	s - s	3,345,900 \$	(3,207,852)		\$ 3,904,263	\$ (711,475) \$	(1,554,950)		
Total Recovery	\$ 51,450,6	660 \$ 2,801,537 \$	(42,103,370)	\$ 45,205,625 \$	3,345,900 \$	(45,373,970)	\$ 40,499,683	\$ 3,904,263	\$ (45,266,057) \$	(30,526,966)		
										· · · · · · · · · · · · · · · · · · ·		
Total Charge for Residential Rates RS, ORH, TD, RS3P, RSLI, TD-2013												\$ 0.001282 S/kWh
Total Charge for Rates DM, GS-FL, EH, SFL-ADPL, & CUR (Part A Only)												\$ 0.001026 S/kWh
Total Charge for Rates DS, DP, TS, & RTP (Part A plus Part B)												\$ 0.001363 S/kWh

Note: (a) Rider DOR (Distribution Decouging Rider) does not apply to Rates DS, DP, and TS. These rates are therefore subject to lost distribution revenue recovery under Rider EE-FDR.
(b) Commercial Actively Tax (CAT) factor is 1,002/608.
(c) Includes adjustments ordered in Cate, 14-678-14-078 and 15-534-EE-FDR. Adjustments are down in GG.
(d) MâV costs are included in the Shared Savings calculation per the order in Case No. 13-753-EE-FDR.

	\$8M after tax
	Baseline
Total Balance at 12/31/2020	\$21,685,947
Residential	\$9,126,133
Non-Residential	\$12,559,815
2021 Lost Revenues (Non-Residential)	\$2,047,876
2022 Lost Revenues (Non-Residential)	\$1,162,929
2023 Lost Revenues (Non-Residential)	\$358,655
Total	\$25,255,408

PUCO Case No. 21-482-EL-RDR Attachment JEZ-2 P.U.C.O. Electric No. 19 Page 1 of 1 Sheet No. 119.56 Cancels and Supersedes Sheet No. 119.4-5

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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 001282 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 \$0.000000-001026 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 \$0.000000-001363 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. 1621-576482-EL-POR-RDR before the Public Utilities Commission of Ohio.

Issued: November 30, 2020 Effective: January 1, 2021

P.U.C.O. Electric Sheet No. 119.6

Duke Energy Ohio Cancels and Sup 139 East Fourth Street Sheet No. 119.5

Cincinnati, Ohio 45202 Page 1 of 1

P.U.C.O. Electric No. 19 Page 1 of 1
Sheet No. 119.6
Cancels and Supersedes
Sheet No. 119.5
Page 1 of 1

PUCO Case No. 21-482-EL-RDR

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 \$0.001282 per kilowatthour.

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 \$0.001026 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 \$0.001363 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 _ Commission of Ohio.	in Case No. 21-482-EL-RDR before the Public Utilities
Issued:	Effective:
	Issued by Amy B. Spiller, President