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. 20-613-EL-RDR
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.

A.

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 and Case No. 19-622-EL-RDR.
11	Q.	WHAT ARE THE ATTACHMENTS AND SCHEDULES FOR WHICH YOU
12		ARE RESPONSIBLE?
13	A.	I am sponsoring the following items:
14		• Attachment JEZ-1 – Work papers showing the calculation of Rider EE-PDRR
15		rates
16		• Attachment JEZ-2 – Proposed Rider EE-PDRR tariff sheet – redlined
17		• Attachment JEZ-3 – Proposed Rider EE-PDRR tariff sheet – clean
18	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS
19		PROCEEDING?
20	A.	The purpose of my testimony in this proceeding is to: (i) describe the calculation of
21		the Rider EE-PDRR rate update, including the true-up for the year 2019 and (ii)
22		discuss the distribution decoupling mechanism, Rider DDR, as approved in Case No.
23		11-5905-EL-RDR and its effect on lost margin recovery. The Company's electric

- tariff contains two shared savings-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 retail recovery rates.
- 4 Q. WHAT IS THE PURPOSE OF RIDER EE-PDR AND EE-PDRR?
- 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-
- 7 PDRR contains the results of the calculations, *i.e.*, the retail recovery rates.
- 8 Q. WHAT TIME PERIOD DOES THIS TRUE-UP COVER?
- 9 A. This true-up analysis addresses the calendar year 2019. The proposed Rider EE-10 PDRR rate also includes expected 2020 costs. The 2020 results will be trued-up in next year's filing. As part of the true-up calculation, the reconciliation balances 11 12 (i.e., actual costs including lost revenues, and actual EE-PDRR revenues) from 13 2012, 2013, 2014, 2015, 2016, 2017, and 2018, as filed in Case No. 13-753-EL-14 RDR, Case No. 14-457-EL-RDR, Case No. 15-534-EL-RDR, Case No. 16-664-15 EL-RDR, Case No. 17-781-EL-RDR, Case No. 18-397-EL-RDR, and the pending 16 Case No. 19-622-EL-RDR respectively, are carried forward and included in the 17 revenue requirement.
- 18 Q. DO YOUR CALCULATIONS TAKE INTO ACCOUNT THE FOUR
 19 PERCENT COST CAP IMPOSED BY THE COMMISSION IN ITS 2017
 20 OPINION AND ORDER, TO WHICH THE COMPANY'S CHALLENGE IS
 21 PENDING ON REHEARING?
- A. No, my calculations do not take into account the cost cap imposed by the Commission, which would require that program costs and shared savings not

1	exceed four percent of the Company's 2015 operating revenues. 1 I have performed
2	my calculations in a manner consistent with the Ohio Supreme Court's decision in
3	In re Application of Ohio Edison Co., 2019-Ohio-4196, 158 Ohio St. 3d 27, in
4	which the Court struck down a virtually identical cost cap. The total amount of
5	program costs and shared savings in this Application exceeds four percent of the
6	Company's 2015 operating revenues by \$1,847,610.

II. CALCULATION OF EE-PDR REVENUE REQUIREMENT

7 Q. WHAT LEVEL OF ACHIEVEMENT IS THE COMPANY CLAIMING?

- 8 A. Duke Energy Ohio exceeded its efficiency and peak demand mandates for 2019.
- 9 Per the stipulation in Case No. 16-576-EL-POR and the approved waiver, the
- 10 Company earned the capped after-tax shared savings achievement of \$8 million.
- This equates to \$10,277,360 on a pre-tax basis.
- 12 Q. IS THE COMPANY INCLUDING CARRYING COSTS ON LOST
- 13 MARGINS IN THIS APPLICATION?
- 14 A. No.
- 15 Q. PLEASE EXPLAIN HOW DISTRIBUTION LOST MARGINS ARE
- 16 CALCULATED.
- 17 A. The DSMoreTM model calculates the kWh and kW reductions associated with each
- program measure. Based upon the units of participation and load reductions per
- program measure, the Company then applies lost margin rates to these reductions
- 20 to calculate the lost margin dollars to be recovered.

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, pp. 15-16 (September 27, 2017).

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

2 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.

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

10 A. The calculated lost margins include only distribution margins associated with non11 residential customers taking service under Rate DS, Rate DP, and Rate TS. The
12 lost margins associated with these three non-residential rates are included under
13 Rider EE-PDR since these non-residential customers are not subject to the
14 Company's decoupling rider, Rider DDR (Distribution Decoupling Rider), which
15 was approved in Case No. 11-5905-EL-RDR.

Q. DID THE DIRECT PROGRAM COSTS FOR 2019 INCLUDE INCENTIVE PAY?

18 A. Yes. The direct program costs for 2019 include \$292,925 of incentive pay. In past
19 cases, Staff has distinguished between "non-financial" and "financial" incentives,
20 and recommended exclusion of "financial incentives, based upon a utility's
21 financial goals" from recovery.²

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).

- Q. WHAT PROPORTION OF THE INCENTIVE PAY INCLUDED IN
 DIRECT PROGRAM COSTS FOR 2019 IS TIED TO MEASURES OTHER
 THAN THE COMPANY'S FINANCIAL PERFORMANCE, SUCH AS
 OPERATIONAL GOALS, SAFETY GOALS, AND OTHER NON-
- 5 FINANCIAL GOALS?
- A. \$98,415 of the total incentive pay is tied to the Company's financial performance.

 \$194,510 of the total incentive pay is tied to non-financial measures and goals.

 Included within the \$194,510 is \$34,059 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:

		% Related to	Amount Related to	Amount Not Related
		Financial	Financial	to Financial
	Amount	Performance	Performance	Performance
Exec Short Term Incent	\$28,000	50%	\$14,000	\$14,000
Incentives Allocated	\$221,837	35%	\$77,643	\$144,194
Performance Award	\$9,029	75%	\$6,772	\$2,257
Restricted Stock Units	\$34,059	0%	\$0	\$34,059
Total	\$292,925		\$98,415	\$194,510

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14 Q. DOES THE COMPANY AGREE WITH PAST RECOMMENDATIONS TO

15 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

1	incentive pay here in order to ensure that, if Staff continues recommending
2	disallowance of "financial" incentives, it has an accurate breakdown of incentive
3	pay components.

4 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

Self-Direct program in determining its performance against the benchmarks set

forth in Section 4928.66, Ohio Revised Code, but it did not include any avoided

costs or lost revenues from the Mercantile Self-Direct program in its Rider EE-PDR

true-up calculations.

11 Q. DID THE TRUE-UP CALCULATION INCLUDE ANY PRIOR-PERIOD

12 TRUE-UP AMOUNTS?

A.

Yes. To maintain continuity of the true-up mechanism from one year to the next, the filing includes the net reconciliation balances from the prior years – 2012, 2013, 2014, 2015, 2016, 2017, and 2018 in this case. The Company filed its 2012 reconciliation numbers in Case No. 13-753-EL-RDR. The Company filed its 2013 reconciliation numbers in Case No. 14-457-EL-RDR. The Company filed its 2014 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 its 2016 reconciliation numbers in Case No. 17-781-EL-RDR. The Company filed its 2017 reconciliation numbers in Case No. 18-397-EL-RDR. The Company filed its 2017 reconciliation numbers in Case No. 18-397-EL-RDR. The Company filed its amended 2018 reconciliation numbers in December 2019 in pending Case No. 19-622-EL-RDR. Upon receipt of an order in Case No. 19-622-EL-RDR the

1 Company will make adjustments to this filing.

III. RIDER EE-PDR RECONCILATION RATE CALCULATION

- 2 Q. PLEASE EXPLAIN HOW THE COMPANY'S DISTRIBUTION
- 3 DECOUPLING RIDER AFFECTS THE RIDER EE/PDR TRUE-UP
- 4 CALCULATIONS.
- 5 A. Rider DDR was approved on May 30, 2012 in Case No. 11-5905-EL-RDR. On
- 6 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
- 8 classes covered by the rider. On February 24, 2020, the Company filed an
- 9 application in Case No. 11-5905-EL-RDR to update Rider DDR rates for each rate
- class. The Company refiled its application on March 17, 2020 in Case No. 20-574-
- EL-RDR. The latest Rider DDR filing covers the period January 1, 2019 through
- December 31, 2019. The updated Rider DDR rates will be effective on July 1,
- 13 2020, absent any activity by the Commission. The lost margin dollars in this Rider
- 14 EE-PDR true-up filing are based on lost kWh and kW for year 2019. 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.
- 17 Q. PLEASE DESCRIBE IN DETAIL THE RIDER EE-PDRR RATE
- 18 CALCULATIONS CONTAINED IN ATTACHMENT JEZ-1.
- 19 A. 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.
- Page 2 summarizes the Rider EE-PDRR revenue requirement data from

1	page 3. The total 2019 revenue requirement is \$44,403,946. This figure includes
2	\$230,964 of Mercantile Self-Direct program cost recovery; however, no shared
3	savings incentives are included for the self-direct program.
4	Page 3 of Attachment JEZ-1 shows the 2019 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 numbers are
8	summarized on page 2.
9	Page 4 of Attachment JEZ-1 shows the lost distribution margins associated
10	with program participants that take service under Rate DS, Rate DP, and Rate TS.
11	As I previously mentioned, customers served under these three rates are not subject
12	to Rider DDR. These customers are, however, subject to lost distribution margin
13	recovery pursuant to Rider EE-PDRR.
14	Page 5 of Attachment JEZ-1 shows the expected 2020 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.
18	Page 6 of Attachment JEZ-1 shows the expected 2020 prior-vintage lost
19	margins associated with program participants that take service under Rate DS, Rate
20	DP, and Rate TS. As stated earlier, customers served under these three rates are
21	not subject to Rider DDR.
22	Page 7 of Attachment JEZ-1 shows the 2019 Rider EE-PDRR revenues by

23

base rate class and month. Total revenue recovery during 2019 was \$45,266,057.

Page 8 of Attachment JEZ-1 shows the actual 2019 kWh usage by month
for Rate DS, Rate DP, and Rate TS accounts. The total 2019 kWh numbers for
these rates are used to calculate the lost revenue dollars included in Rider EE-PDRR
associated with these three base rates.

Page 9 of Attachment JEZ-1 shows the forecasted kWh billing determinants for the period July 2020 through June 2021.³ 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 2019 costs and revenues and recover the 2020 expected costs. The total revenues to be recovered are grossed up by the Commercial Activity Tax factor of 1.0026068. 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, the Company will adjust this filing if necessary, to reflect any changes to the as-filed numbers in that case.

IV. <u>CONCLUSION</u>

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

A. Duke Energy Ohio proposes that the revised tariffs, including the rates and charges 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.

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. A final reconciliation will be necessary to correct for this after 2020 programs are completed.

- 1 Q. WERE THE ATTACHMENTS DISCUSSED ABOVE PREPARED BY YOU
- 2 OR UNDER YOUR SUPERVISION?
- 3 A. Yes.
- 4 Q. DOES THIS CONCLUDE YOUR TESTIMONY?
- 5 A. Yes.

Duke Energy Ohio 2019 True Up

Shared Savings Achievements and Revenue Requirement Compared to Cap

2019 Achievement from Shared Savings Portfolio	311,255
1 + Use of Incentive Bank, if any	311,233
= Total Claimed Impacts	311,255
/ Mandate excluding Mercantile	197,723
= Achievement	157%
- Achievement for 2019	221,450
= Impacts to Bank, if any	89,804
hared Savings Rate and Tax Gross-up	
After-Tax Achievement Rate	12.0%
/ Tax Grossup Factor	77.8410%
= Pre-Tax Achievement Rate	15.42%
hared Savings Cap	2 000 0 00 00 00 00 00 00 00 00 00 00 00
2 After-Tax Achievement Cap	\$8,000,000
/ Tax Grossup Factor	77.8410%
= Pre-Tax Achievement Cap	\$10,277,360
hared Savings, Capped	
Shared Savings Achievement, Uncapped	\$20,664,281
- Pre-Tax Achievement Cap	\$10,277,360
= Shared Savings Achievement, Compared to Cap	\$10,386,921
Shared Savings Achievement, Capped	\$10,277,360
Revenue Requirement: Cost Recovery Revenue	
Cost Recovery Revenue	\$30,222,323
Revenue Requirement, Cost Recovery Revenue	\$30,222,323
Total Revenue (Cost + Shared Savings)	\$40,499,683
Bank	
Starting Incentive Bank from Prior Year's True-up Filing	433,767
	C
- Use of Incentive Bank, if any	

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

Achievement Tiers

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

PUCO Case No. 20-613-EL-RDR Attachment JEZ-1 AGE 2 OF 10

Duke Energy Ohio 2019 True Up Total Revenue Requirement

	Res	NonRes	Total
Shared Savings Revenue	22,901,745	17,366,974	40,268,719
Lost Revenues	0	3,904,263	3,904,263
Mercantile Self-Direct Cost Recovery		230,964	230,964
Total Revenue Requirement	22.901.745	21.502.201	44.403.946

1565 588.00 588	Amuse of a colour form		edual A	Impacts & Participants		٥	-	Shared Savings Ca	d Savings Calculation: (Avaided Cost minus ProgramCosts) x Sharing Rate 1 1	r minus ProgramCosts	x Sharing Rate		١		Cost Recovery	wery	į.		Capped Revenue	enne a	Revenue Requirement	equirement
Column C	uado	Annual K © Pi	WH Gross FR, Ann ant Total	and KW Gross PR. P Flant Total (Amountized)	Participants		Total NP. Avoided lost of Enegy / Total	Total	stal Avoided Costs			Savings Tier, pre-	hared Savings Revenue, Uncapped	Non-M&V Costs	M&VCots		Cost Recovery Revenue	Incentive Cap Adjustment	Shared Savings Revenue, Capped	Total Revenue	Lost Revenue Make- Whole \$	Total Revenue Requirement
			EWH do to		1 q'Meosure Units data	\$ deta	5 900	\$ aga	\$ 0	w 0	~ 5	×	w 3	S	S date	S	v, 2	S	3	8	S date	~ 1
Column C	ed Savings Recovery																					
Column C	å		3.743.436	1005	5 800.9	2 222.654 5	1,044,492	677.383	2 444 939 5	2 707 807	1,856,044			90 500	2,946	700 000	700 800	stee cocy	83109			9
	Home Energy Comparison Report		98,716,994	23,943	358,956	\$ 2,610,557	1,654,621	2,492,530	8,757,708 \$	2,551,218 \$	6,206,491			\$ 2,540,892	10,326	2,551,218	2,551,218	(876,812)	80,129			
	Low Income Meghborhood Program Low Income Weatherlastion - Pay for Performance		603,322	987	1,340	5 132,882	166,641	133,851	252,895 \$	207,536 \$	41,736			\$ 461,127	116,409	211,158	577,536	(198,490)	(020/20)			**
	Residential Energy Assessments		4,170,491	385	18,001	\$ 388,113 1		394,016	2,412,289 \$	1,073,007 \$	1,339,282			\$ 1,069,453			1,073,007	(368,775)	(162,758)			
	Smart Sever* Residential Total		231,884,080	39,808	2,555,363	\$ 14,886,007	L	L	77,747,681 \$	15,688,256 \$	62,059,425	10.400	9,569,563	\$ 15,325,639		15,688,256 \$	15,688,256	\$ (5,191,796)		19,866,021		\$ 19,866,021
	Demand Response																					
	Power Manager*			71,506		5 7,428,415		7,087,691	14,516,106 \$	1,587,960 \$	12,928,146	15.42%		1,452,662	13,298	1,587,960	1,587,960	(545, 756)	1,447,164			\$ 3,035,724
Column C	NonRes			11,300		Carpany C		100'00'	44310,100	4,387,786, p	14,928,148		A PARTIE A	799,750	807007	1,387,380	Par de la	heriter	1,445,198			
1 1 1 1 1 1 1 1 1 1	Energy Efficiency Power Manager* for Business - EE		924,501	341	989	\$ 242,467 \$		226,789	714.170 \$	\$ 06,567 \$	(92,397)			\$ 806,567			595,908	\$ (282,239)	(296,487)		\$ 33,198.00	**
	Small Business Energy Saver		11,336,843	2,034	10,260,212	\$ 1,777,699		1,782,237	7,360,612 \$	2,218,735 \$	5,141,876			\$ 2,218,735			2,218,735	\$ (776,394)	16,483		\$ 807,043.00	
	smart Saver* Non Residential Custom Smart Saver* Non Residential Performance Incentive		0	0	9,00	3 3,787,000	S .	4,833,091	19,408,01	5,257 \$	(5,257)			\$ 5,257	(op) .		5,257	(1,940)	(0,550)			n vo
1 1 1 1 1 1 1 1 1 1	Smart Saver* Non Residential Prescriptive Total		79,370,457	8,126	10,858,163	\$ 7,849,106	\$ 15,447,783 1 \$ 27,078,142 \$	25,265	31,477,437 S 58,760,509 S	9,406,985 \$	46,853,573			\$ 9,585,285		9,406,935 \$	9,406,935	\$ (0.259,787)		13,362,930	\$ 2,444,974.00 \$ 8,994,263	\$ 9,083,692
Control Cont	Deceard Responds																					
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Power Manager* for Business - Dit.			3,920		\$ 322,752		307,948	630,699 \$		630,699				. !				97,154			* :
1114-11- 1114	Total			82,307		\$ 8,175,807		7,800,830 \$	15,976,666 \$	3,308,207 \$	12,668,459			\$ 3,269,108	\$ 19,099	3,308,207 \$	3,108,207		795,147			\$ 4,104,054
111200 1	990		311,254,537	208,172				8'05	164,000,962 \$	29,991,359 \$	134,009,603	**	20,664,281	\$ 29,440,491	\$ 550,067	29,991,359 \$	29,991,359			40,268,719	\$ 3,904,263	\$ 44,172,982
1 10 10 10 10 10 10 10	Recovery Dody Nonfas																					
1 100	Design Emoleucy		3,122,302	415	1,219									\$ 230,964	,	230,964 \$	230,964					230,964
1 1 1 1 1 1 1 1 1 1			20172016	9 1	and the																	
	II Programs and Impacts		31122,400	3	1777									Machen C						war'ng		
CALICALI S GARCHY S MARCH S INCOMES S MARCH	les Grengy Efficiency																					
	Low Income Weatherlation Total		372,249	100	353																	
44,17,411 5 42,17,411 5 43,14,17,411 5 43,14,17,411 5 43,14,17,411 5 43,14,17,411 5 43,14,17,411 5 43,14,17,41	Total		372,249	100	353																	
1467145 1768146 1768			21474000	100 000				S		-	127 000 753		100 577 101				***************************************			40, 400, 400		***************************************
MANORTY GARGIES TATALES TATA	The state of the s		314,140,300	100,000						6 222,071,077 9	500/000/W5		* or handy				20,644,243			4477,000		
1 10,202 5 10,004 5 1	Res Total Nordes Total		232,256,329	39,908			41,843,656	21,012,949	55,760,569		62,059,425	~ *		15,325,639	362,617	15,688,256	15,688,256	(3,291,796)	4,177,165		\$ 3,904,68	\$ 15,866,021
1 JORGES 5 - 5 JORGES 5 LANGES 6 LANGES 6 LANGES 5 LANGES	Demand Response																					
\$ 85781 120462 \$. \$ 120462 \$ 98719 \$ 99906 \$ 12025	Res Total Nonlins Total		00	71,506				7,087,691	14,516,106	3,308,207 \$	12,928,146			3,269,108	115,296 19,099	3,308,207	1,587,960	(348,756)	1,440,164			\$ 1,015,724
20,000 (1) 1,541,106 (1,541,106) (1,141,10	billowing participants were noted to have Non-Metered rates. Therefo	ive, their impacts and avo	olded costs will not	count towards OH's st	hared savings recovery.																	
208,587	Nor-Metered		305,950	S		57,242	99,464	61,814	218,521 \$		218,521	15.42%	337636									
			314,376,739	208,587	17,611,854																	

Source: 2019 True Up, tab LR Rollup for Fest							
Non-Res LR Rate calculation based upon prior period achievement and dollars			NR LR Rate Non Res Totals	5	0.015918863 3,904,264	593,273	245,260,199
Brown are.	Product Code of Measure	Rate Class	Transaction Year		ort Passarus VAN Dollars	Monthly Lord Devenue MW	Monthly Lost Revenue kWh
Program Small Business Energy Saver	SSBDIR	DM	Haisacuon rear	2016	20,059	Monthly Lost Revenue kW 1,436.41	544,123.14
Small Business Energy Saver Small Business Energy Saver	SSBDIR SSBDIR	DS EH		2016 5	-	7,214.39 35.90	11,268.79
Smart Saver® Non Residential Custom Smart Saver® Non Residential Custom	NRPRSC NRPRSC	DM DP		2016 5	14,967	29.78 1,895.48	1,435,309.56
Smart Saver® Non Residential Custom Smart Saver® Non Residential Custom	NRPRSC NRPRSC	DS TS		2016 5		3,231.48 1,950.47	
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRFS NRFS	DM DP		2016 5	5 59	2.22 110.96	1,588.22
Smart Şaver® Non Residential Prescriptive	NRFS	DS		2016 5	871	91.54	51,545.57
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRFS NRHVAC	DM DM		2016 9	867	0.08 40.98	23,513.18
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRHVAC NRHVAC	DP DS		2016 5		67.09 327.63	
Smart Şaver* Non Residential Prescriptive Smart Şaver* Non Residential Prescriptive	NRHVAC NRHVAC	EH TS		2016 5		8.16 14.88	
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRIT NRIT	DM DS		2016 5	1	0.03	22.68
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRLTG NRLTG	DM DP		2016 5	44,574	2,753.08 4,648.43	1,209,155.68
Smart Saver® Non Residential Prescriptive	NRLTG	DS		2016 5	180,294	27,787.34	10,664,469.77
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRLTG NRLTG	EH T\$		2016 \$		892.01 1,715.08	668,789.56
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRPSM NRPSM	DP DS		2016 5		2.21 139.63	
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRP&M NRPROC	TS DS		2016 5		29.31 56.94	15,051.48
Small Business Energy Saver Small Business Energy Saver	SSBDIR SSBDIR	DM DS		2017 5	20,252	1,450.84 2,577.92	549,381.57
Small Business Energy Saver	SSBDIR	EH		2017 \$		9.33	6,684.44
Smart \$aver* Non Residential Custom Smart \$aver* Non Residential Custom	NRPRSC NRPRSC	DM DS		2017 5		49.74 2,551.28	1,383,723.82
Smart \$aver* Non Residential Custom Smart \$aver* Non Residential Custom	NRPRSC NRPRSC	EH TS		2017 5		11.15 1,983.21	
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRFS NRFS	DM DP		2017 5	67 296	2.55 49.40	
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRFS NRHVAC	DS DM		2017 5	1,668	182.90 56.94	98,646.98
Smart Şaver® Non Residential Prescriptive	NRHVAC	DP		2017 \$	17	4.40	1,637.53
Smart Saver* Non Residential Prescriptive Smart Saver* Non Residential Prescriptive	NRI IVAC NRI IVAC	DH DH		2017 5	2,205	364.27 26.77	9,735.69
Smart Saver* Non Residential Prescriptive Smart Saver* Non Residential Prescriptive	NRIT NRLTG	DS DM		2017 5	3 37,699	0.21 2,637.63	1,022,657.60
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRLTG NRLTG	DP DS		2017 5	8,875 116,795	2,255.29 19,062.31	851,100.74 6,908,517.53
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRLTG NRLTG	EH TS		2017 5		778.01 554.69	254,302.13
Smart Saver* Non Residential Prescriptive Smart Saver* Non Residential Prescriptive	NIPSM NIPSM	DP DS		2017 5	16	3.01 276.59	1,537.01
Smart Saver® Non Residential Prescriptive	NRPROC	DP		2017	355	81.09	34,076.83
Smart Saver® Non Residential Prescriptive Small Business Energy Saver	NRPROC SSBDIR	DS DM		2017 5	120,674	233.63 9,015.51	3,273,496.97
Small Business Energy Saver Small Business Energy Saver	SSBDIR SSBDIR	DS EH		2017 5	146,266	24,657.60 45.15	8,651,734.83 16,743.02
Smart Saver® Non Residential Custom Smart Saver® Non Residential Custom	NRPRSC NRPRSC	DP DS		2017 5	48,518 119,656	12,160.19 14,902.29	4,652,630.38
Smart Saver® Non Residential Custom Smart Saver® Non Residential Custom	NRPRSC NRPRSC	EH TS		2017 2017		101.21 14,561.31	
Smart \$aver* Non Residential Prescriptive	NRFS NRFS	DM DP		2017 \$		8.66 28.13	4,646.61
Smart Şuver® Non Residential Prescriptive Smart Şuver® Non Residential Prescriptive	NRFS	DS		2017 \$		3,494.50	2,087,967.45
Smart Saver* Non Residential Prescriptive Smart Saver* Non Residential Prescriptive	NRFS NRFS	EH TS		2017 2017		7.88 40.48	22,957.85
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRHVAC NRHVAC	DM DP		2017 5		94.67 448.27	
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRHVAC NRHVAC	DS EH		2017 \$		1,455.76 69.26	691,477.61
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRHVAC NRLTG	TS DM		2017	207,817	475.51 14,297.99	176,332.66
Smart Saver® Non Residential Prescriptive	NRLTG	DP		2017 5	58,510	16,475.74	5,610,818.32
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRLTG NRLTG	DS EH		2017 5	685,066	111,509.66 3,578.01	1,259,559.06
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRLTG NRP&M	TS DM		2017	850	12,345.78 44.32	4,285,887.58 23,066.76
Smart \$aver* Non Residential Prescriptive Smart \$aver* Non Residential Prescriptive	NRP&M NRP&M	DP DS		2017 5	6,625	1,283.48 1,149.06	635,310.54
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRP&M NRPROC	TS DP		2017	-,	779.72 249.85	397,842.56
Smart Şaver* Non Residential Prescriptive Power Manager* for Business - EE	NRPROC SBEEDR	DS DM		2017 5		259.25 869.82	95,370.97
Power Manager® for Business - EE	SBEEDR	DM		2019	11,570	621.16	313,847.33
Power Manager* for Business - EE Power Manager* for Business - EE	SBEEDR SBEEDR	DS DS		2018 \$		303.75 331.65	167,569.33
Power Manager® for Business - EE Power Manager® for Business - EE	SBEEDR SBEEDR	EH EH		2018		3.45 5.47	
Small Business Energy Saver Small Business Energy Saver	SSBDIR SSBDIR	DM DM		2018 5		6,512.99 2,588.83	
Small Business Energy Saver Small Business Energy Saver	SSBDIR SSBDIR	DP DS		2019 5	227	58.52 27,100.28	21,722.78
Small Business Energy Saver	SSBDIR SSBDIR	DS		2019 5	90,085	12,491.61 93.43	5,328,591.02
Small Business Energy Saver Small Business Energy Saver	SSBDIR	EH EH		2019		97.07	59,751.00
Small Business Energy Saver Smart Saver® Non Residential Custom	SSBDIR NRPRSC	RS01 DM		2018 2018 5	22,332	62.57 877.46	
Smart Saver® Non Residential Custom Smart Saver® Non Residential Custom	NRPRSC NRPRSC	DM DP		2019 5		28.93 12.724.27	
Smart Saver* Non Residential Custom Smart Saver* Non Residential Custom	NRPRSC NRPRSC	DP DS		2019 5	11,162	1,350.45 14,059.08	1,070,426.52
Smart Şaver* Non Residential Custom Smart Şaver* Non Residential Custom	NRPRSC NRPRSC	DS TS		2019 \$	89,334	8,995.59 5,646.20	5,284,158.09
Smart Saver * Non Residential Custom Smart Saver * Non Residential Custom Smart Saver * Non Residential Prescriptive	NRPRSC	TS TS DM		2019		(194.37	97,969.47
Smart Şaver® Non Residential Prescriptive	NRFS NRFS	DM		2018 5	32	89.66 1.18	858.90
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRFS NRFS	DP DP		2018 9	382	20.31 78.63	36,591.35
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRFS NRFS	DS DS		2018 5		844.97 1,375.63	459,092.29 804,505.65
Smart \$aver* Non Residential Prescriptive Smart \$aver* Non Residential Prescriptive	NRFS NRHVAC	EH DM		2018 2018 S		37.56 73.65	20,576.98
Smart \$aver* Non Residential Prescriptive	NRHVAC NRHVAC	DM		2019	2,684	115.97 164.70	72,816.02
Smart Şaver® Non Residential Prescriptive Smart Şaver® Non Residential Prescriptive	NRHVAC	DP DS		2018 S	20,744	2,256.52	1,227,045.31
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRHVAC NRHVAC	DS EH		2019 S 2018	20,823	3,008.42 16.25	
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRHVAC NRHVAC	EH TS		2019 2018		2.14 42.48	25,162.62
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRHVAC NRIT	TS DM		2019 2018 S	71	262.73 2.65	41,932.62 1,937.96
Smart Saver* Non Residential Prescriptive Smart Saver* Non Residential Prescriptive	NRIT NRIT	DS EH		2018 5	35	2.81 0.31	2,051.96
Smart Şaver® Non Residential Prescriptive	NRLTG	DM		2018 5		6,754.63	4,882,062.05
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRLTG NRLTG	DM DP		2019 5	76,273	3,649.65 21,626.05	7,314,247.83
Smart \$aver* Non Residential Prescriptive Smart \$aver* Non Residential Prescriptive	NRLTG NRLTG	DP DS		2019 5	415,840	6,219.08 69,482.86	24,597,181.23
Smart Şaver® Non Residential Prescriptive Smart Şaver® Non Residential Prescriptive	NRLTG NRLTG	DS EH		2019 \$	179,973	33,653.91 369.55	10,645,509.28
Smart Sover* Non Residential Prescriptive Smart Sover* Non Residential Prescriptive	NRLTG NRLTG	EH TS		2019 2018		69.15 10,041.44	19,643.12
Smart Saver* Non Residential Prescriptive Smart Saver* Non Residential Prescriptive	NRLTG NRPSM	TS DP		2019 2018 5	4,098	2,687.44 778.78	801,196.37
Smart Saver® Non Residential Prescriptive	NRP&M	DS		2018 5	8,089	778.78 969.36	478,443.05
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRP&M NRP&M	DS EH		2019 5		146.71	
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRPROC NRPROC	DM DP		2019 5		14.78 36.97	
Smart Saver® Non Residential Prescriptive Smart Saver® Non Residential Prescriptive	NRPROC NRPROC	DS DS		2018 5	1,835	313.03 151.72	108,514.35
Smart \$aver® Non Residential Prescriptive	NRPROC	TS		2019		59.11	20,490.47
				•	3,204,204		. angangani

Dake to erg Chie 2000 Fragelies Frage on Nomeror	Current Capability Aw Co Annual CMH Doos Ft. Au	Current Caradicilly Are Carrent Capabilità Annual ESE Gross FR, 49 Plant Annual STANS Gross FR, Annual STAN Gross FS, Part Caparity		Total NEW Assisted Disea	olded Co. Total NEV Ancided Co. Total NEV Assisted Cost of TSD / Total	PV Austibed Cost of TEO	/Total Premy Corbs	9														US MAN	80	
		Property				Shared Sewhen Calcula	Sport Shartisted Cost - Pt.	Serben Calculation (Ausided Cot - Present Costs) a Seafue Bate	-		- -	3	Cost Regivery	4					ĺ,	Cassed finance	anne.] 	Reserve Repairment	
Program	Annual Chief Grees As FR, @ Plant Total	Annual CN Gross III. @ Plant Total	Participants	Total NPV Aucided Tel Control Capacity / C	1	Total NPV Aucided Total As	Assistant Conts Tetal	Total Cooks Deced See	Pered Sarings Food	Ang Tier, Shared Savings Sax Revenue, Uncapped	tage Nuo-M&Vissi	ants MBV Conts	Total Cook	Cost Becovery Revenue, Uncapped		Manthe Cap Stead	Stand Straings Cost Resmort Sweman, Capped Sweman Companies	3 3	F	ted feeres Total Revenue	ness 1648 Barmon, med Capped	Contain		Total Resents Regularizated (I)
and	STAN		Followwenter	5 1	2	~ 1	-3	2 3	N of	m 3]-:	- 1	n j	w 2] '		,	ı	-3	-1	1]-:]		,
Shared Seeless femines	i	ı	ı	l	ł							i	l									ı		,
nes Decent Markens Energy Michaely Michael de Schools	1,636,096	ě	467	200.010	101410	4 (36 30)	1 194 610										10001			2 02902		8000		804.875
Nume Servey Companions Report	26.83.82	34.60	334,000	2541.834	3.558.840	2400,394 \$	8.52.308										M1.099 S			4.206.277 \$		8,277 5		4,304,077
Low Income Magness had Program for Income Washerd at ion - Parter Performance	2000		1238	N.O.	10.00	77.61	204.554										3.124 S			206.500 5		2 600		206,077
Residential Energy Asymptotics	3,688.231	1	MAZA .	330,004	1,492.98	M.05 5	2.85347	1442.00 5	746,498 2,718	***	SC1 5 5825	128687 \$ 2980	29-202 \$ 1448.749 NO.000 \$ 1448.749	NO 5 1448.749			\$7.555 S		1440709 5	1.806.308 5		1,96,304 5		1506.04
Total	TRUMPTE.	34,004	1,567,610	10,542,907	MA15.500	13,600,900 \$	52,360,058			-						-	1,000,002			0,548,000 \$		8 000'8		17,544,00
Deniard Empores	•	1317	2072	4500.404	٠		**********										2 571 908		- 100 ddd - 4					7
Total	•	60,942	8778	6.500.673		6.170.004 5	11,670,509	1,781,800 \$ 10	0.000.000	-	838.86 S 1439.	1 201 1 MOZ	MO78 \$ 1781.80	EO 5 1,783,950		-	89734 5	-	1.788.850 \$	2,421,304 5	-	1 201301	-	1411.04
Appelles Compp (Misson																								
Power Manage Flor business - EE	1,145,898	G !	1238	300.522	303.594	281.080 \$	MES 166	923.759 \$	CM.5903 2775		G.896 5 53.	5 65729	82129	59 5 82379			2.508.5		\$ 837.759 \$	S00784 S		5 96789	16.996 5	982.80
Smart Savar* Nam Amidiantial Custom	M,735,344	180	11731	1,700,288	5,000,640	158,81	R-400,222			n un	n un		n va				ME,982 S	A 48		AUGH S	n us	3,000	N2.536 S	1 MAKET
Smart Saver* Non-heidertid Performance Incentive Program	1,805,680	N I	1,686,650	200,530	563,472	120,386 \$	306,406						***				51,971 5			2 8778	***	8730	12,481 \$	304,90
Total	WALLAN.	18781	14.780.118	14.04.115	MAINE	1440.701	66.008.357		L	-	-			Ĺ		-	C106.278 S		ľ	0.000.00	ļ	1 1000	1 107701	11234,413
Chemistric Response Prese of Manager Fair Response - Cit.	•	*	1	20,000	•	782,394 \$	1,006,494		1,00,000 271N		123,800 5						23,380 \$	***		23.800 \$		23,360 \$		123,860
Therefore,	•	34.04	8968	2,980,691		248.81 \$	5E5394		ı	-	-	2,80,008 \$ 58.00	19.200 5 2.183.00	28 S 3,88,428		-	BRADE S	-	\$ 827077	2.48888 \$	_	8 1898	-	19897
Test	396,247,846	133,884	2048233	S MANAGES S	S SEMES	30,478,181. \$	140.884.149 S	MA77.421 S 100	106.506.327	5 124	MALE S NAME	BLAKASS \$ LWLDM.	336 S 33,477,421	R1 5 11-07-221	12		£362,478 S	•	33,477,421 \$ 4	4L700239 S	. 5	\$ 66790738	A. 153.009 S	MALTINE.
Cost factor or Coly Norther Everge Efficiency																								
Amountain performan	1786484	ā	-								-	E.39 5	41.20	89 5 41239			-	-	48,239 5	6128		41239 5	-	470
Treat	NEARCA .	ă										- \$ 667W	. \$ 481,299	B9 \$ 41,239					480,339 \$	8 9219		41,299 \$		481,009
Total	286,054.680	134,98	2048218	\$ NAMES OF STREET	8 256,000.00	35.478.381 S	140.W4.149 S	MA77.821 \$ 100	106.906.317	5 624	8242.69 S 32.89.	NAME OF ASSESSED ASSESSED.	336 S 33,556,000	NO 5 33,959,060	5 0		E362.478 S	•	33.978.060 \$ 4	Q.201538 S	. 5	42.30.538 \$	A. 153.089 S	45,352,877
1 Prover brangat" for Montesthalschin in soning efficiency and demand response component. Casts Namb here afforcand to if and 10 based on forecasted PM. 2 Consider Reviews Resolvement in nacidate as ment, include drawed control sounds.	work Cortis have been alloc	cated to fit and bit based	for forecasted for.																					

Prior period LR through 2019 for 2020 with Rate Case assumptions

Program	Product Code of Measure	Rate Class	<u>Transaction Year</u>	Lost Revenue KWH Dollars	Monthly Lost Revenue kW	Monthly Lost Revenue kWh
Small Business Energy Saver	SSBDIR	DS	2017	1,327	244	81,841
Smart \$aver* Non Residential Custom	NRPRSC	DS	2017	1,974	283	121,700
Smart \$aver* Non Residential Prescriptive	NRFS	DS	2017	211	25	13,023
Smart Saver® Non Residential Prescriptive	NRHVAC	DS	2017	170	28	10,466
Smart \$aver® Non Residential Prescriptive	NRLTG	DP	2017	875	245	88,244
Smart \$aver® Non Residential Prescriptive	NRLTG	DS	2017	8,500	1,330	524,063
Smart \$aver* Non Residential Prescriptive	NRP&M	DS	2017	346	43	21,314
Smart \$aver® Non Residential Prescriptive	NRPROC	DP	2017	28	7	2,840
Smart \$aver* Non Residential Prescriptive	NRPROC	DS	2017	70	13	4,313
Small Business Energy Saver	SSBDIR	DS	2017	67,293	11,758	4,148,869
Smart \$aver® Non Residential Custom	NRPRSC	DP	2017	33,548	7,729	3,382,761
Smart \$aver® Non Residential Custom	NRPRSC	DS	2017	84,110	11,830	5,185,699
Smart \$aver® Non Residential Prescriptive	NRFS	DP	2017	136	19	13,688
Smart \$aver® Non Residential Prescriptive	NRFS	DS	2017	30,522	3,151	1,881,778
Smart \$aver® Non Residential Prescriptive	NRHVAC	DP	2017	993	194	100,091
Smart \$aver® Non Residential Prescriptive	NRHVAC	DS	2017	7,790	931	480,295
Smart \$aver® Non Residential Prescriptive	NRLTG	DP	2017	31,139	9,470	3,139,817
Smart \$aver* Non Residential Prescriptive	NRLTG	DS	2017	372,451	62,973	22,963,100
Smart \$aver® Non Residential Prescriptive	NRP&M	DP	2017	5,035	1,033	507,689
Smart Saver® Non Residential Prescriptive	NRP&M	DS	2017	4,224	528	260,425
Smart Saver® Non Residential Prescriptive	NRPROC	DP	2017	708	167	71,384
Smart \$aver® Non Residential Prescriptive	NRPROC	DS	2017	767	130	47,260
Power Manager® for Business - EE	SBEEDR	DS	2018	2,489	304	153,472
Power Manager® for Business - EE	SBEEDR	DS	2019	5,290	645	326,128
Small Business Energy Saver	SSBDIR	DP	2019	1,293	351	130,337
Small Business Energy Saver	SSBDIR	DS	2018	197,815	27,100	12,196,102
Small Business Energy Saver	SSBDIR	DS	2019	141,202	19,738	8,705,660
Smart \$aver* Non Residential Custom	NRPRSC	DP	2018	97,544	12,724	9,835,626
Smart \$aver® Non Residential Custom	NRPRSC	DP	2019	22,189	2,940	2,237,363
Smart \$aver® Non Residential Custom	NRPRSC	DS	2018	149,205	14,059	9,199,103
Smart \$aver* Non Residential Custom	NRPRSC	DS	2019	238,269	26,124	14,690,259
Smart \$aver® Non Residential Prescriptive	NRFS	DP	2018	74	20	7,417
Smart \$aver® Non Residential Prescriptive	NRFS	DP	2019	744	154	75,046
Smart \$aver® Non Residential Prescriptive	NRFS NRFS	DS DS	2018 2019	7,446	845	459,092
Smart \$aver® Non Residential Prescriptive	NRHVAC	DP		20,721	2,199 165	1,277,510
Smart \$aver® Non Residential Prescriptive Smart \$aver® Non Residential Prescriptive	NRHVAC	DS	2018 2018	927 19.902	2,257	93,511 1,227,045
Smart \$aver* Non Residential Prescriptive	NRHVAC	DS	2019	49,707	9,954	3,064,614
Smart \$aver* Non Residential Prescriptive	NRIT	DS	2019	49,707	3,954	
Smart \$aver* Non Residential Prescriptive	NRLTG	DP	2018	72,539	21,626	2,052 7,314,248
Smart \$aver® Non Residential Prescriptive	NRLTG	DP	2019	37,196	12,838	3,750,604
Smart \$aver* Non Residential Prescriptive	NRLTG	DS	2019	396,069	68,919	24,419,211
Smart \$aver* Non Residential Prescriptive	NRLTG	DS	2019	345,570	67,389	21,305,748
Smart \$aver® Non Residential Prescriptive	NRP&M	DP	2019	3,897	779	392,940
Smart Saver® Non Residential Prescriptive	NRP&M	DS	2018	7.760	969	478.443
Smart \$aver* Non Residential Prescriptive	NRP&M	DS	2019	1,820	363	112,220
Smart \$aver® Non Residential Prescriptive	NRPROC	DP	2019	305	89	30,756
Smart \$aver* Non Residential Prescriptive	NRPROC	DS	2018	1,760	313	108,514
Smart Saver® Non Residential Prescriptive	NRPROC	DS	2019	972	173	59,938
Similar Paris			2013	2,474,954	1/3	33,330

DUKE ENERGY OHIO RIDER EE-PDRR REVENUES

Rider Revenue Rate 2019	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	_	and Total
DM	\$72,557	\$71,371	\$66,625	\$58,821	\$56,450	\$63,191	\$204,247	\$203,798	\$290,814	\$262,486	\$226,248	_	\$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	_	\$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		\$20,567,883
표	\$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		\$91,457
OR	\$3,106	\$2,809	\$2,427	\$1,524	\$1,128	\$1,248	\$679	\$584	-\$528	-\$455	-\$649	_	\$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		\$11,413,983
SF	25	\$7	\$7	\$7	\$7	\$7	\$19	\$19	\$28	\$28	\$28		\$192
TD	\$105	\$101	\$95	\$65	\$52	\$64	\$39	\$41	-\$27	-\$30	-\$26		\$447
TS	\$224,088	\$221,476	\$219,391	\$244,721	\$233,023	\$184,021	\$562,692	\$504,728	\$763,512	\$712,600	\$694,530		\$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 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	te	Lost	ost Rev
1/2019	166,281,243	541,817,102	278,907,572	987,005,917	❖	0.000265	\$	261,557
1/2019	156,786,543	516,613,885	262,698,466	936,098,894	↔	0.000265	\$	248,066
1/2019	152,910,133	496,587,966	261,088,440	910,586,539	↔	0.000265	\$	241,305
1/2019	158,057,965	483,508,104	283,136,681	924,702,750	ᡐ	0.000265	\$	245,046
5/1/2019	169,669,833	500,083,832	268,229,343	937,983,008	↔	0.000265	\$	248,565
1/2019	172,277,270	548,159,244	140,944,480	861,380,994	↔	0.000265	\$	228,266
1/2019	203,709,568	619,319,203	305,682,943	1,128,711,714	❖	(0.000086)	\$	(690'26)
1/2019	190,961,731	596,933,046	395,736,356	1,183,631,133	ᡐ	(0.000086)	\$	(101,792)
1/2019	190,779,589	609,653,294	283,639,932	1,084,072,815	↔	(0.000142)	\$	(153,938)
/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	2,064,667,755 6,477,642,326 3,288,845,629 11,831,155,710	3,288,845,629	11,831,155,710			\$	711,475

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

Projected Annual Electric Sales KWH

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

Non-Residential Rates

7,250,289,501

July 2020 - June 2021

12,590,479,817

11,824,902,670

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

Duke Energy Chio Energy Efficiency and Poak Demand Response Rider Summary of Calculations 2020 Annual Filing

						ı			I							
		2012-2014 Actual	2012-2014 Actual	2012-2014 Actual	2015-2016 Actual		2015-2016 Actual	2015-2016 Actual		2020 Expected	Total	Total	Estin	Estimated	Effective July 2020	020
		Program Costs	Lost Revenues	Riders EE-PDRR / SAWR	Program Costs		Lost Revenues	Riders EE-PDRR	Program Costs L	Lost Revenues	Revenue	Revenue	Bill	Billing	Energy Efficiency and Peak	nd Peak
Rate Schedule	~	& Shared Savings	(DS, DP, TS)	Revenues	& Shared Savings	vings	(DS, DP, TS)	Revenues	& Shared Savings	(DS, DP, TS)	Requirements	Requirements		Determinants	Demand Response Recovery	Recovery
		Case	Case No. 13-753, 14-457, 15-534 (c)	4 (c)		Case N.	Case No. 16-664, 17-781 (as-filed)	(pag)				Plus CAT (b)			Rider (EE-PDRR)	(8)
		۷	60	U	٥		ш	u.	U	I	A+B+C+D+E+F+G+H+					
Electric Rider DSM		(p)	(e)				(e)		(p)	(a)	GG+HH+II+JJ					
Residential Rates RS, ORH, TD, RS3P, RSLI, TD-13	\$5	57,063,033 \$		(48,028,991)	45	29,362,643 \$		(49,952,525)	\$ 20,171,313 \$		\$ 978,213	3 \$ 980,763		7,250,289,501 kWh	45	0.000135 \$/kWh
Distribution Level Rates - Program Cost Recovery (Part A) Applies to Rates DS, DP, DM, GS-FL, EH, SR-ADPL, TS, RTP, & CUR	vs	52,455,573 \$,	(46,708,059)	45	46,692,759 \$,	(31,280,600) \$	\$ 22,030,224 \$		\$ 60,643,627 \$	7 \$ 60,801,713		12,590,479,817 kWh	vs	0.004829 \$/kWh
Distribution Level Rates - Lost Revenue Recovery (Part B) Applies to Rates DS, DP, TS, & RTP		*	\$ 983,896 \$	(6,770,213)		S	4,078,295 \$	(6,451,585)	· · · · · · · · · · · · · · · · · · ·	5,626,043 \$	\$ 5,130,405 \$	5 \$ 5,143,778		11,824,902,670 kWh	45	0.000435 \$/kWh
Total Recovery	45	109,515,606 \$	\$,683,696 \$	\$ (502,502,101)		76,055,402 \$	4,078,295 \$	(87,684,710) \$	\$ 42,201,538 \$	5,626,043 \$	\$ 66,752,245 \$	15 \$ 66,926,255	S			
	"	2017 Actual Program Costs	2017 Actual Lost Revenues	2017 Actual Riders EE-PDRR	2018 Actual Program Costs		2018 Actual Lost Revenues	2018 Actual Riders EE-PDRR	2019 Actual Program Costs L	2019 Actual Lost Revenues	2019Actual Riders E-PORR	ı	From O	Adjustments From Orders in	Adjustments From Orders In	s In 0.307
		ľ	Case No. 18-397-EL-RDR (as-filled)	ı		Case No. 19	Case No. 19-622-EL-RDR (as-filed, pending)		Case No. 20	Case No. 20-613-EL-RDR (as-filed, pending)	ed, pending)	ı				
		AA	. 88	ខ	QQ				99	Ŧ	-		(Amounts Includ	(Amounts Included in Column A)	П	
Electric Rider <u>DSM</u> Residential Rates RS, ORH, TD, RS3P, RSLI, TD.13	w	(d) 9,085,353 \$	S . (e)	(23,932,826)	vs.	23,656,863 \$,	(26,861,932)	\$ 22,901,745		\$ (11,425,344)	9	s	(1,861,446)	s	(1,058,118)
Distribution Level Rates - Program Cost Recovery (Part A) Applies to Rates DS, DP, DM, GS-FL, EH, SR-ADPL, TS, RTP, & CUR	45	42,365,306 \$		(15,032,339)	44	21,548,762 \$	•	(15,304,186) \$	\$ 17,597,938		(33,129,238)	(8	s	(3,137,530)	ø,	(593,514)
Distribution Level Rates - Lost Revenue Recovery (Part B) Applies to Rates DS, DP, TS, & RTP	s		2,801,537 \$	(3,138,204)	us.		3,345,900 \$	(3,207,852)	v,	3,904,263 \$	\$ (711,475)	S				
Total Recovery	45	51,457,660 \$	2,801,537 \$	(42,103,370)	45	45,205,625 \$	3,345,900 \$	(45,373,970)	\$ 40,499,683 \$	3,904,263	\$ (45,266,057)	(2				
Total Charge for Residential Rates RS, ORH, TD, RSSP, RSLI, TD-2013 Total Charge for Rates DM, GS-FL, EH, SFL-ADPL, & CUR (Part A Only) Total Charge for Rates DS, De, TS, & RTP (Part A plus Part B)															w w w	0.000135 \$/kWh 0.004829 \$/kWh 0.005264 \$/kWh

Note: (a) Rider DOR (Distribution Decoupling hider) does not apply to Rate 105, DP, and TS. These rates are therefore subject to lost distribution revenue recovery under Rider EE-DDR. (b) Commend Adminy Tar VCH) factor is LODGORD Tarter is LODGORD Tarter is LODGORD and 15-554-6E-ADB. Adjustments are shown in GG. (c) Includes adjustments or defend in Lete Nat L457-5E-ADB and 15-554-6E-ADB. Adjustments are shown in GG. (d) MBV costs are included in the Shared Savings calculation per the order in Case No. 13-753-4E-ADB.

PUCO Case No. 20-613-EL-RDR Attachment JEZ-2 Page 1 of 1

P.U.C.O. Electric No. 19 Sheet No. 119.45 Cancels and Supersedes

Sheet No. 119.3-4 Page 1 of 1

Duke Energy Ohio 139 East Fourth Street Cincinnati, Ohio 45202

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

Filed pursuant to Orders dated July 31, 2019 in Case No. 18-39720-613-EL-RDR before the Public Utilities Commission of Ohio.

Issued: August 26, 2019 Effective: August 29, 2019

PUCO Case No. 20-613-EL-RDR Attachment JEZ-3 Page 1 of 1

P.U.C.O. Electric No. 19 Sheet No. 119.5 Cancels and Supersedes Sheet No. 119.4 Page 1 of 1

Duke Energy Ohio 139 East Fourth Street Cincinnati, Ohio 45202

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

Issued: Effective:
Filed pursuant to Orders dated in Case No. 20-613-EL-RDR before the Public Utilities Commission of Ohio.
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.
The EE-PDRR rate to be applied to non-residential service customer bills, for service under Rates DS, DP, TS, and RTP, beginning with the revenue month for distribution service is \$0.005264 per kilowatt-hour.
The EE-PDRR rate to be applied to non-residential service customer bills, other than service unde Rates DS, DP, TS, and RTP, beginning with the revenue month for distribution service is \$0.004829.
The EE-PDRR rate to be applied to residential service customer bills beginning with the revenue month is \$0.000135 per kilowatt-hour.
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.