

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 and Performance Incentives Related to its Energy Efficiency and Demand Response Programs.))) Case No. 19-622-EL-RDR))

SUPPLEMENTAL DIRECT TESTIMONY OF

JAMES E. ZIOLKOWSKI

ON BEHALF OF

DUKE ENERGY OHIO, INC.

March 25, 2022

TABLE OF CONTENTS

	<u>PAGE</u>
I. INTRODUCTION	1
II. CALCULATION OF EE-PDR REVENUE REQUIREMENT.....	3
III. CONCLUSION	4

Attachment:

Attachment JEZ-1

I. INTRODUCTION

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

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

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

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

9 **Q. 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

1 Interruptible Rates. From 1996 until 1998, I was an Account Engineer and worked
2 with large customers to resolve various service-related issues, particularly in the
3 areas of billing, metering, and demand management. In 1998, I joined Cinergy
4 Services, Inc.'s, Rate Department, where I focused on rate design and tariff
5 administration. I was significantly involved with the initial unbundling and design
6 of CG&E's retail electric rates. I was appointed to my current position in January
7 2014.

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

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

1 **Q. ARE YOU THE SAME JAMES E. ZIOLKOWSKI WHO PROVIDED**
2 **DIRECT TESTIMONY IN CASE NOS. 16-576-EL-POR, 17-781-EL-RDR, 18-**
3 **397-EL-RDR, 19-622-EL-RDR, 20-613-EL-RDR, AND 21-482-EL-RDR?**

4 A. Yes.

5 **Q. WHAT ARE THE ATTACHMENTS AND SCHEDULES FOR WHICH YOU**
6 **ARE RESPONSIBLE?**

7 A. I am sponsoring the following items:

- 8 • Attachment JEZ-1 – Work papers showing the re-calculation of Rider EE-
- 9 PDRR rates in accordance with the February 23, 2022, Fifth Entry on
- 10 Rehearing in Case No. 16-576-EL-POR (Fifth Entry).

11 **Q. WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL TESTIMONY**
12 **HEREIN IN THIS PROCEEDING?**

13 A. The purpose of my supplemental testimony in this proceeding is to explain how the

14 Company re-calculated the Rider EE-PDRR rate in accordance with the Fifth Entry

15 and to sponsor the previously listed attachment containing such calculations.

II. CALCULATION OF EE-PDR REVENUE REQUIREMENT

16 **Q. HOW WAS THE REVENUE REQUIREMENT CALCULATED**
17 **DIFFERENTLY IN THIS SECOND AMENDED APPLICATION THAN IN**
18 **THE COMPANY’S AMENDED APPLICATION IN THIS PROCEEDING**
19 **ON DECEMBER 20, 2019?**

20 A. The workpapers accompanying the Amended Application filed in this proceeding

21 on December 20, 2019, calculated the revenue requirement based on an \$8.0 million

22 after-tax shared savings cap, pursuant to the Stipulation filed in Case No. 16-576-

1 EL-POR on January 27, 2017 and in accordance with the Ohio Supreme Court's
2 decision in *In re Application of Ohio Edison Co.*, 2019-Ohio-4196. In the
3 workpapers accompanying this Second Amended Application, the Company has
4 re-calculated the revenue requirement based on a \$7.8 million pre-tax shared
5 savings cap, in accordance with the Fifth Entry on Rehearing.

6 **Q. DOES THE REVENUE REQUIREMENT IN ATTACHMENT JEZ-1**
7 **INCLUDE LOST DISTRIBUTION REVENUES?**

8 A. Yes. The revenue requirement in Attachment JEZ-1 includes lost distribution
9 revenues based on lost kWh and kW for year 2018. This is in accordance with the
10 Fifth Entry on Rehearing.

11 **Q. ARE YOU SPONSORING UPDATED TARIFF SHEETS FOR RIDER EE-**
12 **PDRR IN THIS SUPPLEMENTAL TESTIMONY?**

13 A. No. Since this proceeding was commenced in 2019, the Company has made two
14 additional annual true-up filings in Case Nos. 20-613-EL-RDR and 21-482-EL-
15 RDR. The Company will make an additional true-up filing in 2022, for recoveries
16 associated with low-income programs operated in the second half of 2021 per
17 Commission order. The Fifth Entry on Rehearing states that "additional
18 applications for recovery and reconciliation will be addressed thereafter," *i.e.*, after
19 this Second Amended Application is filed. It is my understanding that the intent of
20 the Fifth Entry on Rehearing is to update the Rider EE-PDRR a single time with a
21 rate that reflects amounts to be collected after all pending filings are resolved.

III. CONCLUSION

22 **Q. WAS ATTACHMENT JEZ-1 DISCUSSED ABOVE PREPARED BY YOU**

1 **OR UNDER YOUR SUPERVISION?**

2 A. Yes.

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

4 A. Yes.

Duke Energy Ohio
2018 True Up
Shared Savings Achievements and Revenue Requirement Compared to Cap
2

Achievement Level

2018 Achievement from Shared Savings Portfolio	345,146
1 + Use of Incentive Bank, if any	0
= Total Claimed Impacts	345,146
/ Mandate excluding Mercantile	197,555
= Achievement	175%
- Achievement for 2018	221,262
= Impacts to Bank, if any	123,884

Achievement Tiers

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

Shared Savings Rate and Tax Gross-up

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

Shared Savings Cap

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

Shared Savings, Capped

Shared Savings Achievement, Uncapped	\$18,641,770
- Pre-Tax Achievement Cap	\$7,800,000
= Shared Savings Achievement, Compared to Cap	\$10,841,770

3 Shared Savings Achievement, Capped per Order in Case No. 16-0576-EL-POR on 2/23/2022	\$7,800,000
---	--------------------

Bank

Starting Incentive Bank from Prior Year's True-up Filing	309,882
- Use of Incentive Bank, if any	0
+ Banked Impacts	123,884
= Ending Incentive Bank	433,767

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 February 23, 2022, order in Case No. 16-576-EL-POR

3 - Shared savings has been adjusted per the 2/23/2022 order in Case No. 16-0576-EL-POR. Duke Energy Ohio reserves its right to appeal in this case.

Duke Energy Ohio
2018 True Up
Total Revenue Requirement

	Res	NonRes	Total
Shared Savings Revenue*	21,801,819	20,681,798	42,483,617
Lost Revenues	0	3,345,900	3,345,900
Mercantile Self-Direct Cost Recovery		244,648	244,648
Total Revenue Requirement	21,801,819	24,272,346	46,074,165

* Shared savings has been adjusted per the 2/23/2022 order in Case No. 16-0576-EL-POR. Duke Energy Ohio reserves its rights to appeal in this case.

*Shared savings has been adjusted per the 2/23/2022 order in Case No. 16-0576-EL-POR. Duke Energy Ohio reserves its rights to appeal in this case.

*Shared savings has been adjusted per the 2/23/2022 order in Case No. 16-0576-EL-POR. Duke Energy Ohio reserves its rights to appeal in this case.

Non-Res L3 Rate calculation based upon prior period achievement and dollars

NSI U.S. Radar

© 2005 Lippincott Williams & Wilkins

PAGE 4 OF 10

[illegible]

Duke Energy Ohio
2019 Forecast
Program Summary

PAGE 5 OF 10

		Shared Savings Calculation: (Avoided Cost - Program Costs) x Sharing Rate										Cost Recovery				Capex Revenue			Revenue Requirement			
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
Program		Annual M&V Gross Pk @ Plant Total (Annualized)	Annual M&V Gross Pk @ Plant Total (Annualized)	Participants	Total NPV Avoided Cost of Capacity / Total	Total NPV Avoided Cost of Energy / Total	Total NPV Avoided Cost of TOU / Total	Total Avoided Costs	Total Costs	Shared Savings Pool	Shared Savings Tier, per-wt	Shared Savings Revenue, Unshared	Non-M&V Costs	M&V Costs	Total Costs	Cost Recovery Revenue, Unshared	Incentive Cap Adjustment	Shared Savings Revenue, Capex Pool \$252,122 Offset ¹	Total Revenue, Capex	Lost Revenue Make-Whole \$	Total Revenue Requirement (\$)	
Unit	Type	kwh/yr	kwh/yr	# of Measure Units	\$	\$	\$	\$	\$	\$	%	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
Shared Savings Revenue																						
Res																						
Energy Efficiency																						
Energy Efficiency Education Program for Schools																						
		3,205,568	862	6,000	619,603	895,534	581,123	\$ 2,096,261	462,431	\$ 1,633,830	7.71%	\$ 125,968	\$ 460,375	\$ 2,056	\$ 462,431	\$ 462,431	\$ -	\$ 125,968	\$ 588,399	\$ -	\$ 588,399	
Home Energy Comparison Report																						
		93,637,314	23,922	343,400	2,482,058	1,474,329	2,389,252	\$ 8,326,539	2,731,946	\$ 5,582,593	7.71%	\$ 431,189	\$ 2,731,946	\$ 9,934	\$ 2,731,946	\$ 2,731,946	\$ -	\$ 431,189	\$ 3,163,135	\$ -	\$ 3,163,135	
Low Income Neighborhood Program																						
		107,574	187	1,350	133,874	107,585	194,850	\$ 436,409	569,738	\$ 633,130	7.71%	\$ 102,946	\$ 436,409	\$ 79,216	\$ 569,738	\$ 569,738	\$ -	\$ 102,946	\$ 669,684	\$ -	\$ 669,684	
Low Income Weatherization - Pay for Performance																						
		1,023,974	137	11,041	90,267	230,097	84,313	\$ 404,897	237,522	\$ 387,175	7.71%	\$ 12,889	\$ 237,522	\$ 36,382	\$ 237,522	\$ 237,522	\$ -	\$ 12,889	\$ 250,411	\$ -	\$ 250,411	
Residential Energy Assessments																						
		3,391,793	318	16,446	331,202	1,340,511	333,611	\$ 1,694,024	1,064,406	\$ 939,459	7.71%	\$ 78,887	\$ 1,064,406	\$ 2,410	\$ 1,064,406	\$ 1,064,406	\$ -	\$ 78,887	\$ 1,143,293	\$ -	\$ 1,143,293	
Smart Sense™ Residential																						
		19,709,181	8,406	1,463,400	16,178,129	14,143,793	8,400,478	\$ 32,677,300	6,433,613	\$ 33,421,487	7.71%	\$ 1,703,630	\$ 6,433,613	\$ 3,026,101	\$ 9,459,714	\$ 9,459,714	\$ -	\$ 1,703,630	\$ 11,163,344	\$ -	\$ 11,163,344	
Total																						
		181,578,883	33,922	1,821,880	9,328,932	24,651,649	12,144,847	\$ 46,125,428	14,704,055	\$ 31,421,373		\$ 2,422,588	\$ 14,704,055	\$ 505,602	\$ 14,704,055	\$ 14,704,055	\$ -	\$ 2,422,588	\$ 17,126,643	\$ -	\$ 17,126,643	
Demand Response																						
Power Manager™																						
		0	72,881	67,886	7,585,883	0	7,237,936	\$ 14,823,819	1,410,293	\$ 13,413,526	7.71%	\$ 1,034,183	\$ 1,319,588	\$ 90,705	\$ 1,410,293	\$ 1,410,293	\$ -	\$ 1,034,183	\$ 2,444,476	\$ -	\$ 2,444,476	
Total																						
		0	72,881	67,886	7,585,883	0	7,237,936	\$ 14,823,819	1,410,293	\$ 13,413,526		\$ 1,034,183	\$ 1,319,588	\$ 90,705	\$ 1,410,293	\$ 1,410,293	\$ -	\$ 1,034,183	\$ 2,444,476	\$ -	\$ 2,444,476	
Nonres																						
Energy Efficiency																						
Power Manager™ for Business - EE																						
		1	1,029,758	380	1,102	270,073	272,797	\$252,610	\$ 795,480	1,532,521	\$ (357,041)	7.71%	\$ (27,528)	\$ 971,110	\$ 181,411	\$ 1,552,521	\$ 1,552,521	\$ -	\$ (27,528)	\$ 1,224,993	\$ 7,875.08	\$ 1,232,868
Small Business Energy Saver																						
		15,982,053	3,007	14,328,425	2,364,594	5,375,423	2,760,496	\$ 11,120,913	3,672,058	\$ 7,448,855	7.71%	\$ 574,307	\$ 3,580,393	\$ 19,663	\$ 3,672,058	\$ 3,672,058	\$ -	\$ 574,307	\$ 4,246,365	\$ 114,826.72	\$ 4,361,192	
Smart Sense™ Non-Residential Custom																						
		20,365,020	2,064	18,212	2,033,038	8,073,897	2,400,266	\$ 13,177,861	3,973,019	\$ 9,204,782	7.71%	\$ 700,689	\$ 3,786,262	\$ 174,521	\$ 3,973,019	\$ 3,973,019	\$ -	\$ 700,689	\$ 4,682,708	\$ 131,782.80	\$ 4,814,490	
Smart Sense™ Non-Residential Performance Incentive Program																						
		535,989	61	500,000	54,777	166,663	50,379	\$ 232,019	99,223	\$ 172,797	7.71%	\$ 13,323	\$ -	\$ -	\$ 99,223	\$ 99,223	\$ -	\$ 13,323	\$ 112,545	\$ 1,626.98	\$ 114,172	
Smart Sense™ Non-Residential Preemptive																						
		65,570,511	10,553	47,179,787	9,993,737	17,002,349	8,706,844	\$ 36,340,430	7,571,664	\$ 28,668,766	7.71%	\$ 2,353,361	\$ 7,565,912	\$ 8,765	\$ 7,574,667	\$ 7,574,667	\$ -	\$ 2,353,361	\$ 9,928,035	\$ 299,950.76	\$ 10,227,986	
Total																						
		94,091,730	16,725	62,221,536	15,754,709	31,141,130	14,716,795	\$ 61,606,634	16,468,485	\$ 45,138,146		\$ 3,480,151	\$ 16,811,342	\$ 457,341	\$ 16,868,483	\$ 16,868,483	\$ -	\$ 3,480,151	\$ 19,348,637	\$ 558,679	\$ 19,907,317	
Demand Response																						
Power Manager™ for Business - DR																						
		1	0	4,141	5,882	368,721	0	\$11,811	\$ 720,534	0	\$	55,558	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,558	\$ 55,558	\$ -	\$ 55,558	
Onsite Charge																						
		0	0	64,100	15,850	4,418,105	0	\$ 1,177,002	\$ 11,138,108	3,021,413	\$ 9,116,695	7.71%	\$ 703,539	\$ 2,950,841	\$ 72,564	\$ 3,023,413	\$ 3,023,413	\$ -	\$ 703,539	\$ 3,727,012	\$ -	\$ 3,727,012
Total																						
		0	68,900	68,712	8,793,028	0	6,479,814	\$ 13,798,843	3,021,413	\$ 10,235,429		\$ 789,152	\$ 2,950,841	\$ 72,564	\$ 3,023,413	\$ 3,023,413	\$ -	\$ 789,152	\$ 3,812,565	\$ -	\$ 3,812,565	
Total																						
		275,670,111	50,128	63,974,904	\$ 30,454,353	\$ 55,792,779	\$ 40,567,391	\$ 135,814,723	\$ 35,606,247	\$ 100,268,477		\$ 7,726,074	\$ 34,480,893	\$ 1,126,214	\$ 35,606,247	\$ 35,606,247	\$ -	\$ 7,726,074	\$ 43,332,330	\$ 558,679	\$ 43,891,009	
Cost Recovery Only																						
Nonres																						
Energy Efficiency																						
Alexandria Self-Direct																						
		2,982,070	340	0	0	0	0	\$ -	\$ -	\$ -		\$ 326,438	\$ -	\$ -	\$ 326,438	\$ 326,438	\$ -	\$ 326,438	\$ 326,438	\$ -	\$ 326,438	
Total																						
		2,982,070	340	0	0	0	0	\$ -	\$ -	\$ -		\$ 326,438	\$ -	\$ -	\$ 326,438	\$ 326,438	\$ -	\$ 326,438	\$ 326,438	\$ -	\$ 326,438	
Total																						
		2,982,070	340	0	0	0	0	\$ -	\$ -	\$ -		\$ 326,438	\$ -	\$ -	\$ 326,438	\$ 326,438	\$ -	\$ 326,438	\$ 326,438	\$ -	\$ 326,438	
Total																						
		278,652,181	50,468	63,974,907	\$ 30,454,353	\$ 55,792,779	\$ 40,567,391	\$ 135,814,723	\$ 35,606,247	\$ 100,268,477		\$ 7,726,074	\$ 34,807,331	\$ 1,126,214	\$ 35,932,685	\$ 35,932,685	\$ -	\$ 7,726,074	\$ 43,658,750	\$ 558,679	\$ 44,217,429	

1. Power Manager™ for Business has both an energy efficiency and demand response component. Costs have been allocated to EE and DR based on forecasted kW.
2. Expected Revenue Requirement if mandates are met, includes shared savings incentive.

Shared savings has been adjusted per the 3/23/2022 order in Case No. 16-0576-EL-PDR. Duke Energy Ohio reserves its right to appeal in this case.

Program	Product Code of Measure	Rate Class	Transaction Year	Lost Revenue KWH Dollars	Monthly Lost Revenue kW	Monthly Lost Revenue kWh
Appliance Recycling Program	FRCYCL	RS	2016		0	0
Appliance Recycling Program	RRCYCL	RS	2016		0	0
Energy Efficiency Education Program for Schools	K12PRF	RS	2016		0	0
Energy Efficiency Education Program for Schools	K12PRF	RS	2011	0	0	0
Energy Efficiency Education Program for Schools	K12PRF	RS	2017		5679.968295	2334821
Energy Efficiency Education Program for Schools	K12PRF	RS	2018		8112.53988	3426138.99
Energy Efficiency Education Program for Schools	K12PRF	RS01	2016		0	0
Energy Efficiency Education Program for Schools	K12PRF	RS01	2011	0	0	0
Energy Efficiency Education Program for Schools	K12PRF	RS01	2017		15.59074222	6487
Energy Efficiency Education Program for Schools	K12PRF	RS01	2018		14.79301651	6247.48
Home Energy Comparison Report	HECR	RS	2016		0	0
Home Energy Comparison Report	HECR	RS	2011	0	0	0
Home Energy Comparison Report	HECR	RS	2017		0	0
Home Energy Comparison Report	HECR	RS	2010	0	0	0
Home Energy Comparison Report	HECR	RS	2018		0	0
Home Energy Comparison Report	MFHECR	RS	2018		11943.95013	4944710
Low Income Neighborhood Program	HWLI	RS	2016		0	0
Low Income Neighborhood Program	HWLI	RS	2017		1730.739738	437710.34
Low Income Neighborhood Program	HWLI	RS	2018		986.5357551	416640
Low Income Neighborhood Program	HWLI	RS01	2016		0	0
Low Income Neighborhood Program	HWLI	RS01	2017		34.25436	8646.33
Low Income Neighborhood Program	HWLI	RS01	2018		30.82924235	13020
Low Income Neighborhood Program	HWLI	RS3P	2018		0.994491689	420
Mercantile Self-Direct	NRCSSD	DP	2016		0	0
Mercantile Self-Direct	NRCSSD	DP	2011		0	0
Mercantile Self-Direct	NRCSSD	DP	2017		2985	2994170.436
Mercantile Self-Direct	NRCSSD	DS	2016		0	0
Mercantile Self-Direct	NRCSSD	DS	2011		0	0
Mercantile Self-Direct	NRCSSD	DS	2018		637.1582223	1244024.623
Mercantile Self-Direct	NRCSSD	TS	2016		0	0
Mercantile Self-Direct	NRCSSD	TS	2017		6096.007317	1298316.974
Mercantile Self-Direct	NRCSSD	TS	2018		132.3194197	96657.33124
Mercantile Self-Direct	NRPRSD	DS	2017		465.6178182	193472.5036
Mercantile Self-Direct	NRPRSD	DS	2018		891.6001339	532820.5382
Mercantile Self-Direct	NRPRSD	TS	2017		897.6993094	348298.1499
Mercantile Self-Direct	NRPRSD	TS	2018		611.1081874	244627.6107
Residential Energy Assessments	HEHC	RS	2016		0	0
Residential Energy Assessments	HEHC	RS	2011	0	0	0
Residential Energy Assessments	HEHC	RS	2017		2935.075108	1191106.284
Residential Energy Assessments	HEHC	RS	2010	0	0	0
Residential Energy Assessments	HEHC	RS	2009	0	0	0
Residential Energy Assessments	HEHC	RS	2018		6948.391322	3006105.891
Residential Energy Assessments	HEHC	RS01	2016		0	0
Residential Energy Assessments	HEHC	RS01	2011	0	0	0
Residential Energy Assessments	HEHC	RS01	2017		2.09011747	793.97
Residential Energy Assessments	HEHC	RS01	2010	0	0	0
Residential Energy Assessments	HEHC	RS01	2009	0	0	0
Residential Energy Assessments	HEHC	RS3P	2016		0	0
Residential Energy Assessments	HEHC	RS3P	2017		2.47977902	1098.334724
Residential Energy Assessments	HEHC	RS3P	2010	0	0	0
Residential Energy Assessments	HEHC	RS3P	2009	0	0	0
Small Business Energy Saver	SSBDIR	DM	2016		0	0
Small Business Energy Saver	SSBDIR	DM	2017		9111.87712	3343828.779
Small Business Energy Saver	SSBDIR	DM	2018		6615.276691	2845772.671
Small Business Energy Saver	SSBDIR	DS	2016	0	0	0
Small Business Energy Saver	SSBDIR	DS	2017	142391.2036	25130.31528	8996673.583
Small Business Energy Saver	SSBDIR	DS	2018	199736.3448	27680.43933	12619899.63
Small Business Energy Saver	SSBDIR	EH	2016		0	0
Small Business Energy Saver	SSBDIR	EH	2017		45.15298667	16743.02204
Small Business Energy Saver	SSBDIR	EH	2018		93.42605131	72338.39513
Small Business Energy Saver	SSBDIR	RS01	2018		62.57173799	33215.75215
Low Income Weatherization - Pay for Performance	WTZKWH	RS	2016		0	0
Low Income Weatherization - Pay for Performance	WTZKWH	RS	2017		346.3103665	251856.3911
Low Income Weatherization - Pay for Performance	WTZKWH	RS	2018		1325.596616	963235.0092
Low Income Weatherization - Pay for Performance	WTZKWH	RS01	2016		0	0
Invalid	HEHCRD	RS	2011	0	0	0
Invalid	HEHCRD	RS	2010	0	0	0
Invalid	HES	RS	2016		0	0
Invalid	K12CFL	RS	2011	0	0	0
Invalid	K12CFL	RS	2010	0	0	0
Invalid	K12CFL	RS	2009	0	0	0
Invalid	K12CFL	RS01	2010	0	0	0
Invalid	K12CFL	RS01	2009	0	0	0
Invalid	LICFL	RS	2011	0	0	0
Invalid	LICFL	RS	2010	0	0	0
Invalid	LICFL	RS01	2011	0	0	0
Invalid	LICFL	RS01	2010	0	0	0
Invalid	OHEC	RS	2011	0	0	0
Invalid	OHEC	RS	2010	0	0	0
Invalid	OHEC	RS	2009	0	0	0
Invalid	OHEC	RS01	2010	0	0	0
Invalid	OHEC	RS01	2009	0	0	0
Invalid	PER	RS	2011	0	0	0
Invalid	PER	RS	2010	0	0	0
Invalid	PER	RS	2009	0	0	0
Invalid	PER	RS01	2010	0	0	0
Invalid	PER	RS01	2009	0	0	0
Invalid	PER	RS3P	2010	0	0	0
Invalid	PER	RS3P	2009	0	0	0

Invalid	REFRPL	RS	2011	0	0	0
Invalid	REFRPL	RS	2010	0	0	0
Invalid	REFRPL	RS	2009	0	0	0
Invalid	REFRPL	RS01	2011	0	0	0
Smart Saver® Residential	HPWH	RS	2016		0	0
Smart Saver® Residential	HPWH	RS	2017		34.73784429	25358.62634
Smart Saver® Residential	HPWH	RS	2018		61.0512618	44567.42112
Smart Saver® Residential	MFEEAR	RS	2016		0	0
Smart Saver® Residential	MFEEAR	RS	2017		613.0053227	18645.57857
Smart Saver® Residential	MFEEAR	RS	2018		1880.564977	57200.51806
Smart Saver® Residential	MFEPPW	RS	2016		0	0
Smart Saver® Residential	MFEPPW	RS	2017		73.65452083	28340.86211
Smart Saver® Residential	MFEPPW	RS	2018		121.6381824	51371.00412
Smart Saver® Residential	MFEESH	RS	2016		0	0
Smart Saver® Residential	MFEESH	RS	2017		3151.216706	95849.50814
Smart Saver® Residential	MFEESH	RS	2018		4776.581112	145287.6755
Smart Saver® Residential	PEEPVS	RS	2016		0	0
Smart Saver® Residential	PEEPVS	RS	2017		432.1812541	316789.8674
Smart Saver® Residential	PEEPVS	RS	2018		487.2802429	358027.9922
Smart Saver® Residential	PEEPVS	RS3P	2017		1.836456766	1344.869049
Smart Saver® Residential	PEEPVS	RS3P	2018		2.214910195	1627.399964
Smart Saver® Residential	RCFL	RS	2016		0	0
Smart Saver® Residential	RCFL	RS	2011	0	0	0
Smart Saver® Residential	RCFL	RS	2017		-0.503512786	-309.8444947
Smart Saver® Residential	RCFL	RS	2010	0	0	0
Smart Saver® Residential	RCFL	RS	2009	0	0	0
Smart Saver® Residential	RCFL	RS01	2016		0	0
Smart Saver® Residential	RCFL	RS01	2011	0	0	0
Smart Saver® Residential	RCFL	RS01	2010	0	0	0
Smart Saver® Residential	RCFL	RS01	2009	0	0	0
Smart Saver® Residential	RCFL	RS3P	2011	0	0	0
Smart Saver® Residential	RCFL	RS3P	2010	0	0	0
Smart Saver® Residential	RCFLPM	RS	2016		0	0
Smart Saver® Residential	RCFLPM	RS	2011	0	0	0
Smart Saver® Residential	RCFLPM	RS	2017		90.33762371	55451.00475
Smart Saver® Residential	RCFLPM	RS	2010	0	0	0
Smart Saver® Residential	RCFLPM	RS01	2016		0	0
Smart Saver® Residential	RCFLPM	RS01	2011	0	0	0
Smart Saver® Residential	RCFLSP	RS	2016		0	0
Smart Saver® Residential	RCFLSP	RS	2017		6245.282251	3553599.801
Smart Saver® Residential	RCFLSP	RS	2018		5176.986404	2485123.901
Smart Saver® Residential	RCFLSP	RS01	2016		0	0
Smart Saver® Residential	RCFLSP	RS01	2017		47.38096536	26868.80391
Smart Saver® Residential	RCFLSP	RS01	2018		34.87354568	16356.93509
Smart Saver® Residential	RCFLSP	RS3P	2016		0	0
Smart Saver® Residential	RCFLSP	RS3P	2017		1.384319074	755.0131478
Smart Saver® Residential	RCFLSP	RS3P	2018		5.936114708	2741.513234
Smart Saver® Residential	RLED	RS	2016		0	0
Smart Saver® Residential	RLED	RS	2017		7959.614713	4889814.887
Smart Saver® Residential	RLED	RS	2018		127775.6716	68173278.93
Smart Saver® Residential	RLED	RS01	2016		0	0
Smart Saver® Residential	RLED	RS01	2017		13.23082411	8022.260343
Smart Saver® Residential	RLED	RS01	2018		991.6638984	528919.2704
Smart Saver® Residential	RLED	RS3P	2016		0	0
Smart Saver® Residential	RLED	RS3P	2017		0.240570125	148.1348198
Smart Saver® Residential	RLED	RS3P	2018		9.5395958	5166.804281
Smart Saver® Residential	SFEEAR	RS	2016		0	0
Smart Saver® Residential	SFEEAR	RS	2017		1482.913279	1095325.2
Smart Saver® Residential	SFEEAR	RS	2018		3298.41354	2425840.5
Smart Saver® Residential	SFEEAR	RS01	2016		0	0
Smart Saver® Residential	SFEEAR	RS01	2017		1.234265696	908.9
Smart Saver® Residential	SFEEAR	RS01	2018		2.678417089	1970.3
Smart Saver® Residential	SFEEAR	RS3P	2017		0.50112	370.4
Smart Saver® Residential	SFEPPW	RS	2016		0	0
Smart Saver® Residential	SFEPPW	RS	2017		751.49601	543534.85
Smart Saver® Residential	SFEPPW	RS	2018		1187.070786	858573.21
Smart Saver® Residential	SFEPPW	RS01	2016		0	0
Smart Saver® Residential	SFEPPW	RS01	2017		0.4452	322
Smart Saver® Residential	SFEPPW	RS01	2018		0.933966	675.51
Smart Saver® Residential	SFEPPW	RS3P	2017		0.2226	161
Smart Saver® Residential	SFEESH	RS	2016		0	0
Smart Saver® Residential	SFEESH	RS	2017		947.0686105	692088.6
Smart Saver® Residential	SFEESH	RS	2018		2499.725937	1826722.8
Smart Saver® Residential	SFEESH	RS01	2016		0	0
Smart Saver® Residential	SFEESH	RS01	2017		0.747157895	546
Smart Saver® Residential	SFEESH	RS01	2018		2.097789474	1533
Smart Saver® Residential	SFEESH	RS3P	2017		0.3276	239.4
Smart Saver® Residential	SSAC	RS	2016		0	0
Smart Saver® Residential	SSAC	RS	2011	0	0	0
Smart Saver® Residential	SSAC	RS	2017		2528.715061	964787.1182
Smart Saver® Residential	SSAC	RS	2010	0	0	0
Smart Saver® Residential	SSAC	RS	2009	0	0	0
Smart Saver® Residential	SSAC	RS	2018		66.72575098	27040.73683
Smart Saver® Residential	SSAC	RS01	2016		0	0
Smart Saver® Residential	SSAC	RS01	2011	0	0	0
Smart Saver® Residential	SSAC	RS01	2010	0	0	0
Smart Saver® Residential	SSAC	RS01	2009	0	0	0
Smart Saver® Residential	SSAC	RS3P	2016		0	0
Smart Saver® Residential	SSAC	RS3P	2017		2.632873668	976.5784753
Smart Saver® Residential	SSAIAS	RS	2016		0	0
Smart Saver® Residential	SSAIAS	RS	2017		171.7952677	66582.79054
Smart Saver® Residential	SSDINS	RS	2017		1.927642305	683.28
Smart Saver® Residential	SSDSEA	RS	2016		0	0
Smart Saver® Residential	SSDSEA	RS	2017		1.80441403	639.6
Smart Saver® Residential	SSHP	RS	2016		0	0
Smart Saver® Residential	SSHP	RS	2011	0	0	0

Smart Saver® Residential	SSHP	RS	2017		1100.002515	422878.7881
Smart Saver® Residential	SSHP	RS	2010	0	0	0
Smart Saver® Residential	SSHP	RS	2009	0	0	0
Smart Saver® Residential	SSHP	RS	2018		35.07190472	14722.47377
Smart Saver® Residential	SSHP	RS01	2011	0	0	0
Smart Saver® Residential	SSHP	RS01	2010	0	0	0
Smart Saver® Residential	SSHP	RS01	2009	0	0	0
Smart Saver® Residential	SSAISN	RS	2017		36.28962091	15268.68
Smart Saver® Residential	SSAISN	RS	2018		381.0410196	160321.14
Smart Saver® Residential	MPSMST	RS	2018		2951.076609	1294244.234
Smart Saver® Residential	MPSMST	RS01	2018		1.799436957	789.1733133
Smart Saver® Residential	RLEDPM	RS	2018		625.0669722	337608.7175
Smart Saver® Residential	RTLLED	RS	2018		10673.60217	5283075.536
Smart Saver® Residential	SSAC2N	RS	2018		2544.678207	1048195.597
Smart Saver® Residential	SSAC2N	RS01	2018		1.732252013	713.5436329
Smart Saver® Residential	SSAC2N	RS3P	2018		5.196756039	2140.630899
Smart Saver® Residential	SSAC2R	RS	2018		22.51927617	9276.067228
Smart Saver® Residential	SSAC3N	RS	2018		914.676347	377671.0684
Smart Saver® Residential	SSAC3R	RS	2018		19.60020744	8092.951466
Smart Saver® Residential	SSAISR	RS	2018		183.5111447	77211.414
Smart Saver® Residential	SSDINN	RS	2018		4.079721646	1583.808
Smart Saver® Residential	SSDSEN	RS	2018		25.55338431	9920.199958
Smart Saver® Residential	SSDSEN	RS	2018		19.5408233	7586.035262
Smart Saver® Residential	SSHP2N	RS	2018		2036.767433	902564.3987
Smart Saver® Residential	SSHP2R	RS	2018		9.959742949	4413.517842
Smart Saver® Residential	SSHP3N	RS	2018		1600.988404	707356.8781
Smart Saver® Residential	SSHP3N	RS3P	2018		13.34157003	5894.640651
Smart Saver® Residential	SSHP3R	RS	2018		20.01235505	8841.960977
Smart Saver® Residential	SSSTN	RS	2018		1878.612183	823896.9391
Smart Saver® Residential	SSSTN	RS01	2018		1.012183288	443.9099887
Smart Saver® Residential	SSSTN	RS3P	2018		5.060916441	2219.549944
Smart Saver® Residential	SSSTR	RS	2018		25.72632524	11282.71221
Smart Saver® Non Residential Prescriptive	NRFS	DM	2016		0	0
Smart Saver® Non Residential Prescriptive	NRFS	DM	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRFS	DM	2017		8.655111061	4646.614386
Smart Saver® Non Residential Prescriptive	NRFS	DM	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRFS	DM	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRFS	DM	2018		89.65957883	65476.56187
Smart Saver® Non Residential Prescriptive	NRFS	DP	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRFS	DP	2017	199.9335465	28.12676712	20532.54
Smart Saver® Non Residential Prescriptive	NRFS	DP	2018	72.2234125	20.30737534	7417.114998
Smart Saver® Non Residential Prescriptive	NRFS	DS	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRFS	DS	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRFS	DS	2017	33046.45831	3494.503669	2087967.452
Smart Saver® Non Residential Prescriptive	NRFS	DS	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRFS	DS	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRFS	DS	2018	7266.0971	844.9698972	459092.2908
Smart Saver® Non Residential Prescriptive	NRFS	EH	2016		0	0
Smart Saver® Non Residential Prescriptive	NRFS	EH	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRFS	EH	2017		7.876355561	4309.716331
Smart Saver® Non Residential Prescriptive	NRFS	EH	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRFS	EH	2018		37.55857534	20576.97766
Smart Saver® Non Residential Prescriptive	NRFS	TS	2017		40.4784439	22957.85407
Smart Saver® Non Residential Prescriptive	NRHVAC	DM	2016		0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DM	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DM	2017		94.66738385	41067.75893
Smart Saver® Non Residential Prescriptive	NRHVAC	DM	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DM	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DM	2018		73.6470665	44140.021
Smart Saver® Non Residential Prescriptive	NRHVAC	DP	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DP	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DP	2017	2444.711405	448.2659842	251064.094
Smart Saver® Non Residential Prescriptive	NRHVAC	DP	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DP	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DP	2018	910.5556442	164.70322	93511.17167
Smart Saver® Non Residential Prescriptive	NRHVAC	DS	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DS	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DS	2017	10944.08148	1455.760967	691477.6076
Smart Saver® Non Residential Prescriptive	NRHVAC	DS	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DS	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	DS	2018	19420.56218	2256.520939	1227045.312
Smart Saver® Non Residential Prescriptive	NRHVAC	EH	2016		0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	EH	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	EH	2017		69.25502212	33888.30197
Smart Saver® Non Residential Prescriptive	NRHVAC	EH	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	EH	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	EH	2018		16.25281926	9681.665259
Smart Saver® Non Residential Prescriptive	NRHVAC	TS	2016		0	0
Smart Saver® Non Residential Prescriptive	NRHVAC	TS	2017		475.5111272	176332.6578
Smart Saver® Non Residential Prescriptive	NRHVAC	TS	2018		42.47983494	25162.62479
Smart Saver® Non Residential Prescriptive	NRIT	DM	2016		0	0
Smart Saver® Non Residential Prescriptive	NRIT	DM	2018		2.652977413	1937.959803
Smart Saver® Non Residential Prescriptive	NRIT	DS	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRIT	DS	2017	0	0	0
Smart Saver® Non Residential Prescriptive	NRIT	DS	2018	32.47652443	2.809034908	2051.957439
Smart Saver® Non Residential Prescriptive	NRIT	EH	2018		0.31211499	227.995271
Smart Saver® Non Residential Prescriptive	NRLTG	DM	2016		0	0
Smart Saver® Non Residential Prescriptive	NRLTG	DM	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	DM	2017		14297.99319	5637386.904
Smart Saver® Non Residential Prescriptive	NRLTG	DM	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	DM	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	DM	2018		6754.628405	4882062.046
Smart Saver® Non Residential Prescriptive	NRLTG	DP	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	DP	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	DP	2017	54634.77999	16475.73966	5610818.321
Smart Saver® Non Residential Prescriptive	NRLTG	DP	2010	0	0	0

Smart Saver® Non Residential Prescriptive	NRLTG	DP	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	DP	2018	71221.75383	21626.04932	7314247.835
Smart Saver® Non Residential Prescriptive	NRLTG	DS	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	DS	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	DS	2017	641346.8088	111509.6559	40522081.05
Smart Saver® Non Residential Prescriptive	NRLTG	DS	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	DS	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	DS	2018	389301.9133	69482.86455	24597181.23
Smart Saver® Non Residential Prescriptive	NRLTG	EH	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	EH	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	EH	2017	0	3578.010174	1259559.059
Smart Saver® Non Residential Prescriptive	NRLTG	EH	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	EH	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	EH	2018	0	369.5467254	207102.4512
Smart Saver® Non Residential Prescriptive	NRLTG	RS01	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	RS01	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	TS	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	TS	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	TS	2017	0	12483.54224	4330225.978
Smart Saver® Non Residential Prescriptive	NRLTG	TS	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	TS	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRLTG	TS	2018	0	10041.43633	3185681.41
Smart Saver® Non Residential Prescriptive	NRP&M	DM	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	DM	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	DM	2017	0	44.3232	23066.76
Smart Saver® Non Residential Prescriptive	NRP&M	DM	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	DP	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	DP	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	DP	2017	6186.272618	1283.48496	635310.543
Smart Saver® Non Residential Prescriptive	NRP&M	DP	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	DP	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	DP	2018	3826.214786	778.77504	392940.102
Smart Saver® Non Residential Prescriptive	NRP&M	DS	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	DS	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	DS	2017	9005.822534	1149.058463	569012.9984
Smart Saver® Non Residential Prescriptive	NRP&M	DS	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	DS	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	DS	2018	7572.363464	969.3592147	478443.0543
Smart Saver® Non Residential Prescriptive	NRP&M	EH	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	EH	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	EH	2018	0	146.7082869	65750.02118
Smart Saver® Non Residential Prescriptive	NRP&M	TS	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	TS	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRP&M	TS	2017	0	779.71896	397842.558
Smart Saver® Non Residential Prescriptive	NRP&M	TS	2009	0	0	0
Smart Saver® Non Residential Prescriptive	NRPROC	DP	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRPROC	DP	2017	1042.644246	249.8530245	107076.2514
Smart Saver® Non Residential Prescriptive	NRPROC	DS	2016	0	0	0
Smart Saver® Non Residential Prescriptive	NRPROC	DS	2011	0	0	0
Smart Saver® Non Residential Prescriptive	NRPROC	DS	2017	1509.445429	259.2494883	95370.97428
Smart Saver® Non Residential Prescriptive	NRPROC	DS	2010	0	0	0
Smart Saver® Non Residential Prescriptive	NRPROC	DS	2018	1717.466867	313.0286538	108514.3492
Smart Saver® Non Residential Custom	NRPRSC	DM	2016	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DM	2011	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DM	2017	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DM	2010	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DM	2009	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DM	2018	0	877.4611016	605792.2924
Smart Saver® Non Residential Custom	NRPRSC	DP	2016	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DP	2011	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DP	2017	45304.52117	12160.18949	4652630.385
Smart Saver® Non Residential Custom	NRPRSC	DP	2010	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DP	2009	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DP	2018	95773.42159	12724.27133	9835626.109
Smart Saver® Non Residential Custom	NRPRSC	DS	2016	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DS	2011	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DS	2017	112019.4207	14902.28838	7077699.59
Smart Saver® Non Residential Custom	NRPRSC	DS	2010	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DS	2009	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	DS	2018	145595.0696	14059.07945	9199102.78
Smart Saver® Non Residential Custom	NRPRSC	EH	2011	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	EH	2017	0	101.2068361	33531.28999
Smart Saver® Non Residential Custom	NRPRSC	TS	2016	0	0	0
Smart Saver® Non Residential Custom	NRPRSC	TS	2017	0	14561.30737	10287950.53
Smart Saver® Non Residential Custom	NRPRSC	TS	2018	0	5646.197472	3352804.958
Power Manager® for Business - EE	SBEDDR	DM	2018	0	869.8222777	439488
Power Manager® for Business - EE	SBEDDR	DS	2018	2429.015857	303.7474621	153472
Power Manager® for Business - EE	SBEDDR	EH	2018	0	3.451675705	1744
Grand Total				2004951.583	678116.3299	304178064.2

DUKE ENERGY OHIO
RIDER EE-PDRR REVENUES

Rider Revenue Rate 2018

Sum of RIDER EE	Column Labels												Grand Total
Row Labels	1/1/2018	2/1/2018	3/1/2018	4/1/2018	5/1/2018	6/1/2018	7/1/2018	8/1/2018	9/1/2018	10/1/2018	11/1/2018	12/1/2018	
DM	\$79,931	\$69,266	\$61,863	\$63,205	\$58,092	\$72,624	\$79,760	\$74,344	\$77,219	\$64,763	\$58,020	\$69,344	\$828,430
DP	\$253,380	\$263,541	\$243,516	\$257,326	\$264,475	\$299,106	\$308,254	\$294,779	\$310,869	\$279,416	\$256,580	\$261,913	\$3,293,156
DS	\$955,266	\$851,131	\$814,298	\$840,247	\$845,804	\$1,006,167	\$1,053,602	\$999,712	\$1,042,769	\$917,212	\$820,007	\$889,098	\$11,035,311
EH	\$18,421	\$14,574	\$11,772	\$11,291	\$8,923	\$17	\$15	\$0	\$6	\$8,757	\$9,404	\$13,565	\$96,745
GF	\$3,491	\$3,491	\$3,491	\$3,491	\$3,488	\$3,490	\$3,490	\$3,490	\$3,490	\$3,490	\$3,490	\$3,490	\$41,884
OR	\$4,015	\$2,552	\$1,975	\$1,950	\$1,267	\$1,414	\$1,576	\$1,426	\$1,446	\$1,254	\$1,778	\$2,713	\$23,367
RS	\$3,051,651	\$2,334,006	\$1,947,118	\$1,927,551	\$1,646,661	\$2,311,360	\$2,684,704	\$2,417,392	\$2,481,680	\$1,941,525	\$1,747,305	\$2,346,533	\$26,837,487
SF	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$89
TD	\$118	\$116	\$83	\$90	\$68	\$75	\$102	\$93	\$96	\$75	\$66	\$97	\$1,079
TS	\$282,481	\$224,919	\$258,541	\$274,461	\$262,751	\$226,879	\$289,831	\$259,737	\$233,157	\$264,479	\$269,200	\$240,234	\$3,086,669
CUR	\$14,763	\$12,797	\$11,414	\$11,485	\$9,506	\$9,505	\$9,789	\$9,295	\$9,714	\$9,167	\$9,835	\$12,484	\$129,754
Grand Total	\$4,663,523	\$3,776,401	\$3,354,079	\$3,391,105	\$3,101,042	\$3,930,645	\$4,431,131	\$4,060,276	\$4,160,453	\$3,490,145	\$3,175,692	\$3,839,479	\$45,373,970

DUKE ENERGY OHIO**KWH BY MONTH AND RATE FOR RATES DS, DP, AND TS****JANUARY 2018 - DECEMBER 2018**

Sum of	USAGE	Column Labels			
Row Labels		DP	DS	TS	Grand Total
1/1/2018		163,103,257	572,437,776	299,406,798	1,034,947,831
2/1/2018		168,520,226	510,002,854	244,310,512	922,833,592
3/1/2018		156,142,273	487,757,243	167,512,093	811,411,609
4/1/2018		165,818,765	503,624,341	270,611,837	940,054,943
5/1/2018		173,638,899	506,463,397	285,463,913	965,566,209
6/1/2018		195,319,246	602,461,607	265,263,088	1,063,043,941
7/1/2018		202,449,042	630,974,527	416,728,537	1,250,152,106
8/1/2018		193,274,751	598,760,548	288,358,862	1,080,394,161
9/1/2018		203,274,168	624,905,574	259,776,315	1,087,956,057
10/1/2018		179,911,575	549,445,128	287,099,166	1,016,455,869
11/1/2018		164,950,516	491,279,749	286,092,375	942,322,640
12/1/2018		168,053,775	532,733,984	289,174,628	989,962,387
Grand Total		2,134,456,493	6,610,846,728	3,359,798,124	12,105,101,345

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

Year	July 2019 - June 2020
Projected Annual Electric Sales KWH	
Residential Rates RS, ORH, TD, RS3P, RSLI, TD-13	7,233,926,657
Non-Residential Rates DS, DP, DM, GS-FL, EH, SP, SFL-ADPL, TS, RTP, & CUR	12,585,374,562
Non-Residential Rates DS, DP, & TS	11,821,609,799

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

PAGE 10 OF 10

2018 Annual Filing

Rate Schedule	2012-2014 Actual Program Costs & Shared Savings	2012-2014 Actual Lost Revenues (DS, DP, TS)	2012-2014 Actual Riders EE-PDRR / SAWR Revenues	2016 Actual Program Costs & Shared Savings	2016 Actual Lost Revenues (DS, DP, TS)	2016 Actual Riders EE-PDRR Revenues	2019 Expected Program Costs & Shared Savings	2019 Expected Lost Revenues (DS, DP, TS)	Total Revenue Requirements	Total Revenue Requirements Plus CAT (b)	Estimated Billing Determinants	Energy Efficiency and Peak Demand Response Recovery Rider (EE-PDRR)		
	Case No. 13-753, 14-457, 15-534 (c)						Case No. 17-781-EL-RDR (as-filed)							
	A	B	C	D	E	F	G	H	A+B+C+D+E+F+G+H+ AA+BB+CC+DD+EE+FF+ GG+HH+II+JJ					
<u>Electric Rider DSM</u>	(d)	(a)		(d)	(a)		(d)	(a)						
Residential Rates RS, ORH, TD, RS3P, RSLI, TD-13	\$ 57,060,033	\$ -	\$ (48,028,991)	\$ 12,949,286	\$ -	\$ (25,072,795)	\$ 19,571,119	\$ -	\$ (12,953,427)	\$ (12,987,194)	7,233,926,657 kWh	\$	(0.001795) \$/kWh	
Distribution Level Rates - Program Cost Recovery (Part A)														
Applies to Rates DS, DP, DM, GS-FL, EH, SFL-ADPL, TS, RTP, & CUR	\$ 52,456,573	\$ -	\$ (46,708,059)	\$ 31,574,208	\$ -	\$ (15,733,707)	\$ 24,087,640	\$ -	\$ 77,610,027	\$ 77,812,341	12,585,374,562 kWh	\$	0.006183 \$/kWh	
Distribution Level Rates - Lost Revenue Recovery (Part B)														
Applies to Rates DS, DP, TS, & RTP	\$	\$ 5,653,696	\$ (6,770,213)		\$ 2,137,750	\$ (3,235,906)	\$ -	\$ 2,563,022	\$ (1,125,405)	\$ (1,128,339)	11,821,609,799 kWh	\$	(0.000095) \$/kWh	
Total Recovery	\$ 109,516,606	\$ 5,653,696	\$ (101,507,263)	\$ 44,523,494	\$ 2,137,750	\$ (44,042,408)	\$ 43,658,759	\$ 2,563,022	\$ 63,531,195	\$ 63,696,808				
	2015 Actual Program Costs & Shared Savings	2015 Actual Lost Revenues (DS, DP, TS)	2015 Actual Riders EE-PDRR Revenues	2017 Actual Program Costs & Shared Savings	2017 Actual Lost Revenues (DS, DP, TS)	2017 Actual Riders EE-PDRR Revenues	2018 Actual Program Costs & Shared Savings	2018 Actual Lost Revenues (DS, DP, TS)	2018 Actual Riders EE-PDRR Revenues		Adjustments From Case No. 14-457, 15-534	Adjustments From Orders In 16-664, 17-781, 18-397		
	Case No. 16-664-EL-RDR (as-filed)			Case No. 18-397-EL-RDR (as-filed)			Case No. 19-622-EL-RDR (as-filed, pending)			(Amounts Included in Column A)		JJ		
<u>Electric Rider DSM</u>	AA (d)	BB (a)	CC	DD (d)	EE (a)	FF	GG	HH	II					
Residential Rates RS, ORH, TD, RS3P, RSLI, TD-13	\$ 16,413,356	\$ -	\$ (24,879,730)	\$ 9,085,353	\$ -	\$ (23,932,826)	\$ 21,801,819	\$ -	\$ (26,861,932)		\$ (1,861,446)	\$ (1,058,118)		
Distribution Level Rates - Program Cost Recovery (Part A)														
Applies to Rates DS, DP, DM, GS-FL, EH, SFL-ADPL, TS, RTP, & CUR	\$ 15,118,552	\$ -	\$ (15,546,893)	\$ 42,365,306	\$ -	\$ (15,032,339)	\$ 20,926,446	\$ -	\$ (15,304,186)		\$ (3,137,530)	\$ (593,514)		
Distribution Level Rates - Lost Revenue Recovery (Part B)														
Applies to Rates DS, DP, TS, & RTP	\$	\$ 1,940,545	\$ (3,215,679)	\$ -	\$ 2,801,537	\$ (3,138,204)	\$ -	\$ 3,345,900	\$ (3,207,852)					
Total Recovery	\$ 31,531,908	\$ 1,940,545	\$ (43,642,302)	\$ 51,450,660	\$ 2,801,537	\$ (42,103,370)	\$ 42,728,265	\$ 3,345,900	\$ (45,373,970)					
Total Charge for Residential Rates RS, ORH, TD, RS3P, RSLI, TD-2013												\$	(0.001795) \$/kWh	
Total Charge for Rates DM, GS-FL, EH, SFL-ADPL, & CUR (Part A Only)												\$	0.006183 \$/kWh	
Total Charge for Rates DS, DP, TS, & RTP (Part A plus Part B)												\$	0.006087 \$/kWh	

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

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

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

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

**This foregoing document was electronically filed with the Public Utilities
Commission of Ohio Docketing Information System on**

3/25/2022 4:00:36 PM

in

Case No(s). 19-0622-EL-RDR

Summary: Testimony Direct Testimony and Attachment of James E. Ziolkowski electronically filed by Mrs. Debbie L. Gates on behalf of Duke Energy Ohio Inc. and D'Ascenzo, Rocco O. Mr. and Vaysman, Larisa and Kingery, Jeanne W and Akhbari, Elyse