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August 23, 2019

Ms. Tanowa M. Troupe, Secretary
Public Utilities Commission of Ohio
Docketing Division
180 East Broad Street, 11th Floor
Columbus, Ohio 43215

Re: *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 Nos. 89-6002-EL-TRF, 16-664-EL-RDR, 17-781-EL-RDR

Dear Ms. Troupe:

Attached for filing is the Rate Calculations document to be filed in the above-referenced cases:

- Attachment JEZ-1 Rate Calculations March 2017 Filing rev Jun 2019 per 16-664 and 17-781 Orders

Should you have any questions please feel free to contact me.

Respectfully submitted,

/s/ Emily A. Olive, CP

Emily A. Olive
Certified Paralegal

Achievement Level

	2016 Achievement from Shared Savings Portfolio	179,463
1	+ Use of Incentive Bank, if any	0
	= Total Claimed Impacts	179,463
	/ Mandate excluding Mercantile	207,278
	= Achievement	87%

Achievement Tiers

Achievement of Annual Target	After-Tax Shared Savings
<100	0.0%
>100-105	5.0%
>105-110	7.5%
>110-115	10.0%
>115	13.0%

Shared Savings Rate Earned and Tax Gross-up

2	After-Tax Achievement Rate Achieved	0.0%
	/ Tax Grossup Factor	63.9500%
	= Pre-Tax Achievement Rate	0.00% rounded to nearest basis point

Bank

	Starting Incentive Bank from Prior Year's True-up Filing	207,608
-	Use of Incentive Bank	0
	= Ending Incentive Bank	207,608

1 - Use of incentive bank to achieve incentive level is disallowed per pending settlement agreement in Case Nos. 14-0457-EL-RDR and 15-0534-EL-RDR.
 2 - Shared savings rate for 2016 per pending settlement agreement in Case Nos. 14-0457-EL-RDR and 15-0534-EL-RDR.

Duke Energy Ohio
2016 True Up
Total Revenue Requirement

	Res	NonRes	Total
Program Costs and Shared Savings Revenue	12,949,286	29,719,246	42,668,533
Lost Revenues	0	2,137,750	2,137,750
Mercantile Self-Direct Cost Recovery		1,854,961	1,854,961
Total Revenue Requirement	12,949,286	33,711,957	46,661,244

Program	Unit Type	Impacts & Participants			Shared Savings Calculation: (Avoided Cost minus Program Costs) x Sharing Rate							Cost Recovery				Revenue Requirement			
		A	B	C	D	E	G	H	I	J	K	L	M	N	O	P	Q	R	S
		Annual KWH Gross FR @ Plant Total	Annual KW Gross FR @ Plant Total	Participants	Total NPV Avoided Cost of Capacity / Total	Total NPV Avoided Cost of Energy / Total	Total NPV Avoided Cost of T&D / Total	Total Avoided Costs	Total Costs	Shared Savings Pool	Shared Savings Tier, pre-tax	Shared Savings Revenue	Non-M&V Costs	M&V Costs	Total Costs	Cost Recovery	Total Revenue	Lost Revenue Make-Whole \$	Total Revenue Requirement
\$	\$	#	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
Shared Savings Recovery																			
Res																			
Energy Efficiency																			
Appliance Recycling Program		51,640	6	93	\$ 1,650	\$ 13,753	\$ 976	\$ 16,380	\$ (23,765)	\$ 40,145	0.00%	\$ -	\$ (23,765)	\$ -	\$ (23,765)	\$ (23,765)	\$ (23,765)	\$ -	\$ (23,765)
Energy Efficiency Education Program for Schools		5,215,191	1,403	9,782	\$ 722,315	\$ 2,440,822	\$ 424,956	\$ 3,588,093	\$ 744,626	\$ 2,843,468	0.00%	\$ -	\$ 744,626	\$ -	\$ 744,626	\$ 744,626	\$ 744,626	\$ -	\$ 744,626
Home Energy Comparison Report	1	11,904,080	3,652	316,486	\$ 2,277,113	\$ 7,188,314	\$ 1,361,339	\$ 10,826,786	\$ 2,936,903	\$ 7,889,883	0.00%	\$ -	\$ 2,936,903	\$ 12,256	\$ 2,936,903	\$ 2,936,903	\$ -	\$ 2,936,903	
Low Income Neighborhood Program		587,278	180	1,315	\$ 101,585	\$ 302,977	\$ 63,667	\$ 468,229	\$ 93,779	\$ (83,549)	0.00%	\$ -	\$ 93,779	\$ 37,640	\$ 551,779	\$ 551,779	\$ -	\$ 551,779	
Low Income Services		0	0	0	\$ -	\$ -	\$ -	\$ -	\$ (0)	\$ (0)	0.00%	\$ -	\$ (0)	\$ -	\$ (0)	\$ (0)	\$ -	\$ (0)	
Residential Energy Assessments		1,997,716	250	7,154	\$ 215,519	\$ 1,608,432	\$ 129,998	\$ 1,953,950	\$ 743,896	\$ 1,210,053	0.00%	\$ -	\$ 736,941	\$ 6,956	\$ 743,896	\$ 743,896	\$ -	\$ 743,896	
Smart Saver Residential		19,872,536	3,764	489,336	\$ 2,423,011	\$ 11,191,242	\$ 1,590,145	\$ 15,204,400	\$ 4,648,533	\$ 10,555,867	0.00%	\$ -	\$ 4,722,359	\$ (73,828)	\$ 4,648,533	\$ 4,648,533	\$ -	\$ 4,648,533	
Home Energy Solutions		999,546	378	1,024	\$ 217,200	\$ 338,855	\$ 127,467	\$ 673,522	\$ 1,940,498	\$ (1,266,976)	0.00%	\$ -	\$ 1,810,165	\$ 130,333	\$ 1,940,498	\$ 1,940,498	\$ -	\$ 1,940,498	
Weatherization Pilot		1,042,598	132	27,307	\$ 65,028	\$ 417,391	\$ 39,595	\$ 522,013	\$ 338,966	\$ 183,048	0.00%	\$ -	\$ 338,966	\$ -	\$ 338,966	\$ 338,966	\$ -	\$ 338,966	
Total		41,270,584	9,765	832,497	\$ 6,023,443	\$ 23,491,786	\$ 3,738,144	\$ 33,253,373	\$ 11,881,435	\$ 21,371,937	\$ -	\$ 11,768,077	\$ 113,359	\$ 11,881,435	\$ 11,881,435	\$ 11,881,435	\$ -	\$ 11,881,435	
Demand Response																			
Power Manager®	1	18,585			\$ 5,766,823	\$ -	\$ 3,467,540	\$ 9,234,363	\$ 1,067,851	\$ 8,166,512	0.00%	\$ -	\$ 835,663	\$ 232,188	\$ 1,067,851	\$ 1,067,851	\$ -	\$ 1,067,851	
Home Energy Solutions - Demand Response	1,2	1,291			\$ 312,930	\$ -	\$ 188,162	\$ 501,091	\$ -	\$ 501,091	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total		19,876			\$ 6,079,753	\$ -	\$ 3,655,702	\$ 9,735,454	\$ 1,067,851	\$ 8,667,603	\$ -	\$ 835,663	\$ 232,188	\$ 1,067,851	\$ 1,067,851	\$ 1,067,851	\$ -	\$ 1,067,851	
NonRes																			
Energy Efficiency																			
Smart Saver Non Residential Custom		24,254,302	3,072	12,221	\$ 2,407,038	\$ 16,193,902	\$ 1,727,409	\$ 20,328,349	\$ 3,223,179	\$ 17,105,170	0.00%	\$ -	\$ 3,055,100	\$ 168,080	\$ 3,223,179	\$ 3,223,179	\$ 631,217	\$ 3,854,396	
Smart Saver Non Residential Prescriptive		91,985,961	16,215	805,683	\$ 7,651,055	\$ 38,487,045	\$ 4,448,296	\$ 50,586,396	\$ 19,798,764	\$ 30,787,632	0.00%	\$ -	\$ 19,798,764	\$ -	\$ 19,798,764	\$ 1,146,874	\$ 20,945,638		
Small Business Energy Saver		21,952,355	4,501	20,709,861	\$ 2,792,924	\$ 12,802,984	\$ 1,843,183	\$ 17,439,092	\$ 4,296,992	\$ 13,142,100	0.00%	\$ -	\$ 4,223,947	\$ 73,045	\$ 4,296,992	\$ 359,659	\$ 4,656,652		
Total		138,192,618	23,788	21,527,765	\$ 12,851,018	\$ 67,483,931	\$ 8,018,887	\$ 88,353,836	\$ 27,318,935	\$ 61,034,901	\$ -	\$ 27,077,811	\$ 241,125	\$ 27,318,935	\$ 27,318,935	\$ 2,137,750	\$ 29,456,685		
Demand Response																			
PowerShare®	1	(485)			\$ 5,112,991	\$ -	\$ 3,074,397	\$ 8,187,388	\$ 2,400,311	\$ 5,787,077	0.00%	\$ -	\$ 2,376,190	\$ 24,121	\$ 2,400,311	\$ 2,400,311	\$ -	\$ 2,400,311	
Total		(485)			\$ 5,112,991	\$ -	\$ 3,074,397	\$ 8,187,388	\$ 2,400,311	\$ 5,787,077	\$ -	\$ 2,376,190	\$ 24,121	\$ 2,400,311	\$ 2,400,311	\$ -	\$ 2,400,311		
Total		179,463,202	52,943	22,360,262	\$ 30,067,204	\$ 90,975,717	\$ 18,487,129	\$ 139,530,051	\$ 42,668,533	\$ 96,861,518	\$ -	\$ 42,057,740	\$ 610,793	\$ 42,668,533	\$ 42,668,533	\$ 42,668,533	\$ 2,137,750	\$ 44,806,282	
Cost Recovery Only																			
NonRes																			
Energy Efficiency																			
Mercantile Self-Direct		41,998,293	4,950	111								\$ 1,854,961	\$ -	\$ 1,854,961	\$ 1,854,961	\$ 1,854,961	\$ -	\$ 1,854,961	
Total		41,998,293	4,950	111								\$ 1,854,961	\$ -	\$ 1,854,961	\$ 1,854,961	\$ 1,854,961	\$ -	\$ 1,854,961	
Other EE Programs and Impacts																			
Res		221,461,495	57,893	22,360,373															
Energy Efficiency																			
Low Income Weatherization		635,882	171	603															
Total		635,882	171	603															
Total		635,882	171	603															
Total		222,097,377	58,064	22,360,976	\$ 30,067,204	\$ 90,975,717	\$ 18,487,129	\$ 139,530,051	\$ 42,668,533	\$ 96,861,518	\$ -	\$ 43,912,701	\$ 610,793	\$ 44,523,494	\$ 44,523,494	\$ 44,523,494	\$ 2,137,750	\$ 46,661,244	
Energy Efficiency																			
Res Total		41,906,466	9,936	833,100	\$ 6,023,443	\$ 23,491,786	\$ 3,738,144	\$ 33,253,373	\$ 11,881,435	\$ 21,371,937	\$ -	\$ 11,768,077	\$ 113,359	\$ 11,881,435	\$ 11,881,435	\$ 11,881,435	\$ -	\$ 11,881,435	
NonRes Total		180,190,911	28,738	21,527,876	\$ 12,851,018	\$ 67,483,931	\$ 8,018,887	\$ 88,553,836	\$ 27,318,935	\$ 61,034,901	\$ -	\$ 28,932,772	\$ 241,125	\$ 29,173,897	\$ 29,173,897	\$ 29,173,897	\$ 2,137,750	\$ 31,311,646	

- Notes:**
- My Home Energy Report and Demand Response programs impacts represent incremental program participation from the prior filing period to be consistent with achievements.
Total annual savings for the programs are as follows:
 - Home Energy Comparison Report: 86,626,040
 - Power Manager: 26,545
 - PowerShare®: 68,907
 - Home Energy Solutions - Demand Response: 62,813
 - Home Energy Solutions - Demand Response: 3,739
 - Program costs for Home Energy Solutions are listed on the Home Energy Solutions EE program row.

Program	Product Code	Rate Class	Transaction Year	Lost Revenue KWH Dollars	Monthly Lost Revenue kW	Monthly Lost Revenue kWh
Appliance Recycling Program	FRCYCL	RS	2013		797.93	307,027.50
Appliance Recycling Program	FRCYCL	RS	2014		612.09	296,798.84
Appliance Recycling Program	FRCYCL	RS	2015		271.32	160,609.24
Appliance Recycling Program	FRCYCL	RS	2016		3.37	1,992.18
Appliance Recycling Program	FRCYCL	RS01	2013		1.43	549.90
Appliance Recycling Program	FRCYCL	RS01	2015		1.14	673.41
Appliance Recycling Program	RRCYCL	RS	2013		3,564.47	1,371,539.25
Appliance Recycling Program	RRCYCL	RS	2014		2,977.49	1,597,799.56
Appliance Recycling Program	RRCYCL	RS	2015		1,296.23	1,031,477.69
Appliance Recycling Program	RRCYCL	RS	2016		17.10	13,609.22
Appliance Recycling Program	RRCYCL	RS01	2013		17.34	6,670.35
Appliance Recycling Program	RRCYCL	RS01	2014		21.96	12,199.25
Appliance Recycling Program	RRCYCL	RS01	2015		12.67	10,080.90
Appliance Recycling Program	RRCYCL	RS3P	2014		0.51	403.24
Energy Efficiency Education Program for Schools	K12PRF	RS	2013		6,330.58	519,754.95
Energy Efficiency Education Program for Schools	K12PRF	RS	2014		22,128.62	1,794,090.00
Energy Efficiency Education Program for Schools	K12PRF	RS	2015		9,284.24	1,702,710.00
Energy Efficiency Education Program for Schools	K12PRF	RS	2016		4,692.73	1,805,673.08
Energy Efficiency Education Program for Schools	K12PRF	RS01	2013		11.42	937.27
Energy Efficiency Education Program for Schools	K12PRF	RS01	2014		23.39	1,896.00
Energy Efficiency Education Program for Schools	K12PRF	RS01	2015		5.19	1,996.00
Energy Efficiency Education Program for Schools	K12PRF	RS01	2016		4.65	1,788.08
Energy Efficiency Education Program for Schools	K12PRF	RS3P	2014		5.85	474.00
Home Energy Comparison Report	HECR	RS	2013		-	-
Home Energy Comparison Report	HECR	RS	2014		-	-
Home Energy Comparison Report	HECR	RS	2015		-	-
Home Energy Comparison Report	HECR	RS	2016		213,438.64	81,078,639.18
Home Energy Solutions	HES	RS	2014			686,096.00
Home Energy Solutions	HES	RS	2015			1,167,788.00
Home Energy Solutions	HES	RS	2016			470,960.33
Home Energy Solutions	HES	RS01	2014			1,644.00
Low Income Neighborhood Program	HWLI	RS	2013		440.30	169,417.50
Low Income Neighborhood Program	HWLI	RS	2014		3,268.70	1,257,732.00
Low Income Neighborhood Program	HWLI	RS	2015		2,514.79	710,928.97
Low Income Neighborhood Program	HWLI	RS	2016		641.32	161,878.51
Low Income Neighborhood Program	HWLI	RS01	2013		4.78	1,837.50
Low Income Neighborhood Program	HWLI	RS01	2014		18.34	7,056.00
Low Income Neighborhood Program	HWLI	RS01	2015		5.55	1,705.46
Low Income Neighborhood Program	HWLI	RS01	2016		15.50	3,911.44
Mercantile Self-Direct	NRCSSD	DM	2013		20.27	7,056.50
Mercantile Self-Direct	NRCSSD	DP	2013		269.57	118,721.90
Mercantile Self-Direct	NRCSSD	DP	2014		5,247.66	3,833,634.39
Mercantile Self-Direct	NRCSSD	DP	2016		153.22	36,689.16
Mercantile Self-Direct	NRCSSD	DS	2013		419.80	237,192.72
Mercantile Self-Direct	NRCSSD	DS	2014		340.13	248,477.34
Mercantile Self-Direct	NRCSSD	DS	2015		2,909.32	2,951,607.76
Mercantile Self-Direct	NRCSSD	DS	2016		666.98	404,457.96
Mercantile Self-Direct	NRCSSD	TS	2013		4,086.14	2,464,097.20
Mercantile Self-Direct	NRCSSD	TS	2015		2,819.82	2,052,332.04
Mercantile Self-Direct	NRCSSD	TS	2016		6,267.90	4,257,742.82
Mercantile Self-Direct	NRPRSD	DM	2013		42.59	14,073.13
Mercantile Self-Direct	NRPRSD	DP	2013		854.05	418,095.91
Mercantile Self-Direct	NRPRSD	DP	2014		4,394.15	1,687,633.75
Mercantile Self-Direct	NRPRSD	DP	2015		327.65	121,500.00
Mercantile Self-Direct	NRPRSD	DS	2013		386.89	162,616.11
Mercantile Self-Direct	NRPRSD	DS	2014		370.84	189,669.25
Mercantile Self-Direct	NRPRSD	DS	2015		39.13	14,511.47
Mercantile Self-Direct	NRPRSD	TS	2013		565.39	238,204.32
Residential Energy Assessments	HEHC	RS	2013		6,393.51	855,246.46
Residential Energy Assessments	HEHC	RS	2014		18,155.83	1,829,724.00
Residential Energy Assessments	HEHC	RS	2015		15,331.41	1,727,747.00
Residential Energy Assessments	HEHC	RS	2016		2,774.48	1,079,088.49
Residential Energy Assessments	HEHC	RS01	2013		10.40	1,317.79
Residential Energy Assessments	HEHC	RS01	2014		6.29	634.00
Residential Energy Assessments	HEHC	RS01	2015		6.29	634.00
Residential Energy Assessments	HEHC	RS01	2016		6.18	2,427.38
Residential Energy Assessments	HEHC	RS3P	2013		-	-
Residential Energy Assessments	HEHC	RS3P	2016		1.41	572.30
Smart Saver Non Residential Custom	NRPRSC	DM	2013		26.32	29,651.93
Smart Saver Non Residential Custom	NRPRSC	DM	2014		140.89	37,336.10
Smart Saver Non Residential Custom	NRPRSC	DM	2015		340.18	127,886.34
Smart Saver Non Residential Custom	NRPRSC	DM	2016		46.23	27,750.16
Smart Saver Non Residential Custom	NRPRSC	DP	2013	\$ 30,764	4,023.77	3,183,698.98
Smart Saver Non Residential Custom	NRPRSC	DP	2014	\$ 60,821	8,169.54	6,294,247.24
Smart Saver Non Residential Custom	NRPRSC	DP	2015	\$ 69,919	4,751.52	7,235,756.98
Smart Saver Non Residential Custom	NRPRSC	DP	2016	\$ 31,459	5,096.68	3,255,587.14
Smart Saver Non Residential Custom	NRPRSC	DS	2013	\$ 8,539	6,681.70	5,022,702.01
Smart Saver Non Residential Custom	NRPRSC	DS	2014	\$ 134,101	15,167.81	8,363,013.80

Program	Product Code	Rate Class	Transaction Year	Lost Revenue KWH Dollars	Monthly Lost Revenue kW	Monthly Lost Revenue kWh
Smart Saver Non Residential Custom	NRPRSC	DS	2015	\$ 131,921	12,804.08	8,227,055.63
Smart Saver Non Residential Custom	NRPRSC	DS	2016	\$ 91,693	14,549.00	5,718,285.52
Smart Saver Non Residential Custom	NRPRSC	EH	2013		4.68	1,273.49
Smart Saver Non Residential Custom	NRPRSC	EH	2015		47.48	15,690.31
Smart Saver Non Residential Custom	NRPRSC	TS	2014		6,167.64	3,366,788.85
Smart Saver Non Residential Custom	NRPRSC	TS	2015		20,583.12	13,885,322.46
Smart Saver Non Residential Custom	NRPRSC	TS	2016		2,292.42	1,674,661.19
Smart Saver Non Residential Prescriptive	NRFS	DM	2013		1.28	932.46
Smart Saver Non Residential Prescriptive	NRFS	DM	2014		8.87	5,193.15
Smart Saver Non Residential Prescriptive	NRFS	DM	2015		-	-
Smart Saver Non Residential Prescriptive	NRFS	DM	2016		8.16	5,958.80
Smart Saver Non Residential Prescriptive	NRFS	DP	2013	\$ 84	13.28	8,650.80
Smart Saver Non Residential Prescriptive	NRFS	DP	2014	\$ 1,159	183.26	119,891.52
Smart Saver Non Residential Prescriptive	NRFS	DP	2015	\$ 9	1.27	925.03
Smart Saver Non Residential Prescriptive	NRFS	DP	2016	\$ 170	41.80	17,549.29
Smart Saver Non Residential Prescriptive	NRFS	DS	2013	\$ 7,008	947.89	437,059.66
Smart Saver Non Residential Prescriptive	NRFS	DS	2014	\$ 1,296	152.33	80,825.51
Smart Saver Non Residential Prescriptive	NRFS	DS	2015	\$ 2,612	266.97	162,901.25
Smart Saver Non Residential Prescriptive	NRFS	DS	2016	\$ 1,424	158.17	88,811.41
Smart Saver Non Residential Prescriptive	NRFS	EH	2013		11.70	3,882.96
Smart Saver Non Residential Prescriptive	NRFS	EH	2014		12.39	6,389.43
Smart Saver Non Residential Prescriptive	NRFS	EH	2015		33.03	13,270.54
Smart Saver Non Residential Prescriptive	NRFS	EH	2016		0.21	156.17
Smart Saver Non Residential Prescriptive	NRHVAC	DM	2013		39.95	14,968.70
Smart Saver Non Residential Prescriptive	NRHVAC	DM	2014		200.03	76,278.32
Smart Saver Non Residential Prescriptive	NRHVAC	DM	2015		184.01	67,879.56
Smart Saver Non Residential Prescriptive	NRHVAC	DM	2016		42.24	17,240.17
Smart Saver Non Residential Prescriptive	NRHVAC	DP	2013	\$ 1,849	447.00	191,399.73
Smart Saver Non Residential Prescriptive	NRHVAC	DP	2014	\$ 4,889	1,351.46	505,919.24
Smart Saver Non Residential Prescriptive	NRHVAC	DP	2015	\$ 616	154.54	63,699.30
Smart Saver Non Residential Prescriptive	NRHVAC	DP	2016	\$ 145	39.40	14,961.36
Smart Saver Non Residential Prescriptive	NRHVAC	DS	2013	\$ 7,264	3,088.36	453,016.23
Smart Saver Non Residential Prescriptive	NRHVAC	DS	2014	\$ 9,579	1,583.40	597,359.85
Smart Saver Non Residential Prescriptive	NRHVAC	DS	2015	\$ 14,976	2,438.34	933,943.09
Smart Saver Non Residential Prescriptive	NRHVAC	DS	2016	\$ 3,625	597.86	226,058.83
Smart Saver Non Residential Prescriptive	NRHVAC	EH	2013		28.79	10,582.91
Smart Saver Non Residential Prescriptive	NRHVAC	EH	2014		55.60	83,748.92
Smart Saver Non Residential Prescriptive	NRHVAC	EH	2015		58.00	21,590.96
Smart Saver Non Residential Prescriptive	NRHVAC	EH	2016		4.86	1,792.51
Smart Saver Non Residential Prescriptive	NRHVAC	TS	2013		9.59	3,555.41
Smart Saver Non Residential Prescriptive	NRHVAC	TS	2014		1,524.81	565,440.00
Smart Saver Non Residential Prescriptive	NRHVAC	TS	2015		47.55	17,633.66
Smart Saver Non Residential Prescriptive	NRHVAC	TS	2016		10.27	3,817.82
Smart Saver Non Residential Prescriptive	NRIT	DM	2014		0.38	144.00
Smart Saver Non Residential Prescriptive	NRIT	DM	2015		0.38	144.00
Smart Saver Non Residential Prescriptive	NRIT	DM	2016		0.02	14.18
Smart Saver Non Residential Prescriptive	NRIT	DP	2015	\$ 28	7.55	2,880.00
Smart Saver Non Residential Prescriptive	NRIT	DS	2014	\$ 1	0.19	72.00
Smart Saver Non Residential Prescriptive	NRIT	DS	2015	\$ 10	1.59	632.73
Smart Saver Non Residential Prescriptive	NRIT	DS	2016	\$ 7	0.58	420.76
Smart Saver Non Residential Prescriptive	NRLTG	DM	2013		1,104.94	431,519.62
Smart Saver Non Residential Prescriptive	NRLTG	DM	2014		3,734.38	1,941,343.39
Smart Saver Non Residential Prescriptive	NRLTG	DM	2015		3,100.19	1,702,082.32
Smart Saver Non Residential Prescriptive	NRLTG	DM	2016		4,340.70	1,947,742.01
Smart Saver Non Residential Prescriptive	NRLTG	DP	2013	\$ 9,990	2,320.78	1,033,813.34
Smart Saver Non Residential Prescriptive	NRLTG	DP	2014	\$ 12,849	3,667.53	1,329,714.57
Smart Saver Non Residential Prescriptive	NRLTG	DP	2015	\$ 30,350	7,099.73	3,140,816.07
Smart Saver Non Residential Prescriptive	NRLTG	DP	2016	\$ 21,880	5,361.66	2,264,305.48
Smart Saver Non Residential Prescriptive	NRLTG	DS	2013	\$ 145,363	24,797.23	9,065,345.91
Smart Saver Non Residential Prescriptive	NRLTG	DS	2014	\$ 276,641	41,302.19	17,252,312.62
Smart Saver Non Residential Prescriptive	NRLTG	DS	2015	\$ 258,098	33,430.59	16,095,940.53
Smart Saver Non Residential Prescriptive	NRLTG	DS	2016	\$ 246,235	36,878.51	15,356,123.55
Smart Saver Non Residential Prescriptive	NRLTG	EH	2013		706.49	233,652.02
Smart Saver Non Residential Prescriptive	NRLTG	EH	2014		599.16	260,899.52
Smart Saver Non Residential Prescriptive	NRLTG	EH	2015		1,205.05	505,185.20
Smart Saver Non Residential Prescriptive	NRLTG	EH	2016		1,305.53	476,205.18
Smart Saver Non Residential Prescriptive	NRLTG	RS01	2013		6.78	2,181.53
Smart Saver Non Residential Prescriptive	NRLTG	TS	2013		8,117.63	2,877,413.06
Smart Saver Non Residential Prescriptive	NRLTG	TS	2014		1,431.64	612,976.39
Smart Saver Non Residential Prescriptive	NRLTG	TS	2015		3,059.00	1,385,198.21
Smart Saver Non Residential Prescriptive	NRLTG	TS	2016		2,981.15	1,239,750.19
Smart Saver Non Residential Prescriptive	NRP&M	DM	2013		51.49	26,204.50
Smart Saver Non Residential Prescriptive	NRP&M	DM	2014		211.15	107,774.41
Smart Saver Non Residential Prescriptive	NRP&M	DM	2015		139.21	72,447.84
Smart Saver Non Residential Prescriptive	NRP&M	DM	2016		50.79	26,430.66
Smart Saver Non Residential Prescriptive	NRP&M	DP	2013	\$ 8,915	2,044.86	922,621.81
Smart Saver Non Residential Prescriptive	NRP&M	DP	2014	\$ 10,301	2,048.37	1,066,018.17
Smart Saver Non Residential Prescriptive	NRP&M	DP	2015	\$ 8,196	1,672.82	848,133.28

Program	Product Code	Rate Class	Transaction Year	Lost Revenue KWH Dollars	Monthly Lost Revenue kW	Monthly Lost Revenue kWh
Smart Saver Non Residential Prescriptive	NRP&M	DP	2016	\$	2	192.22
Smart Saver Non Residential Prescriptive	NRP&M	DS	2013	\$	23,938	1,492,889.79
Smart Saver Non Residential Prescriptive	NRP&M	DS	2014	\$	9,397	586,027.87
Smart Saver Non Residential Prescriptive	NRP&M	DS	2015	\$	13,458	839,297.30
Smart Saver Non Residential Prescriptive	NRP&M	DS	2016	\$	2,305	143,742.36
Smart Saver Non Residential Prescriptive	NRP&M	EH	2013		36.46	18,974.43
Smart Saver Non Residential Prescriptive	NRP&M	EH	2015		53.03	27,599.18
Smart Saver Non Residential Prescriptive	NRP&M	TS	2013		258.11	79,664.90
Smart Saver Non Residential Prescriptive	NRP&M	TS	2014		265.16	137,995.88
Smart Saver Non Residential Prescriptive	NRP&M	TS	2015		379.54	197,578.13
Smart Saver Non Residential Prescriptive	NRP&M	TS	2016		10.78	5,647.14
Smart Saver Non Residential Prescriptive	NRPROC	DP	2016	\$	190	19,634.64
Smart Saver Non Residential Prescriptive	NRPROC	DS	2013	\$	961	59,949.06
Smart Saver Non Residential Prescriptive	NRPROC	DS	2014	\$	7,656	477,478.44
Smart Saver Non Residential Prescriptive	NRPROC	DS	2015	\$	2,779	173,289.01
Smart Saver Non Residential Prescriptive	NRPROC	DS	2016	\$	621	38,711.39
Smart Saver Non Residential Prescriptive	NRPROC	TS	2013		91.66	31,937.60
Smart Saver Residential	HPWH	RS	2014		22.58	16,484.05
Smart Saver Residential	HPWH	RS	2015		80.06	58,443.45
Smart Saver Residential	HPWH	RS	2016		16.25	11,863.52
Smart Saver Residential	MFEEAR	RS	2014		332.49	242,336.00
Smart Saver Residential	MFEEAR	RS	2015		3,141.37	544,080.88
Smart Saver Residential	MFEEAR	RS	2016		2,007.24	61,053.50
Smart Saver Residential	MFEEPW	RS	2014		102.82	75,455.10
Smart Saver Residential	MFEEPW	RS	2015		373.58	239,776.15
Smart Saver Residential	MFEEPW	RS	2016		56.79	21,851.40
Smart Saver Residential	MFEESH	RS	2014		207.56	151,487.00
Smart Saver Residential	MFEESH	RS	2015		4,102.18	511,497.81
Smart Saver Residential	MFEESH	RS	2016		4,571.11	139,037.84
Smart Saver Residential	PEEPVS	RS	2014		9.18	6,724.35
Smart Saver Residential	PEEPVS	RS	2015		167.12	122,383.08
Smart Saver Residential	PEEPVS	RS	2016		69.79	51,105.02
Smart Saver Residential	RCFL	RS	2013		16,622.26	10,186,735.51
Smart Saver Residential	RCFL	RS	2014		58,428.55	35,807,175.06
Smart Saver Residential	RCFL	RS	2015		38,412.46	23,540,428.08
Smart Saver Residential	RCFL	RS	2016		(60.60)	(37,289.78)
Smart Saver Residential	RCFL	RS01	2013		190.56	116,785.21
Smart Saver Residential	RCFL	RS01	2014		454.63	278,614.21
Smart Saver Residential	RCFL	RS01	2015		359.77	220,482.06
Smart Saver Residential	RCFL	RS01	2016		(0.92)	(568.05)
Smart Saver Residential	RCFL	RS3P	2013		5.03	3,081.05
Smart Saver Residential	RCFL	RS3P	2014		12.35	7,568.52
Smart Saver Residential	RCFL	RS3P	2015		12.35	7,568.52
Smart Saver Residential	RCFLPM	RS	2013		796.99	489,245.05
Smart Saver Residential	RCFLPM	RS	2014		828.14	508,370.57
Smart Saver Residential	RCFLPM	RS	2015		1,075.37	660,125.92
Smart Saver Residential	RCFLPM	RS	2016		179.95	110,455.90
Smart Saver Residential	RCFLPM	RS01	2013		3.84	2,356.74
Smart Saver Residential	RCFLPM	RS01	2015		1.44	881.65
Smart Saver Residential	RCFLPM	RS01	2016		0.31	189.60
Smart Saver Residential	RCFLPM	RS3P	2014		0.21	128.55
Smart Saver Residential	RCFLSP	RS	2013		1,964.79	1,194,998.75
Smart Saver Residential	RCFLSP	RS	2014		9,293.48	5,625,532.47
Smart Saver Residential	RCFLSP	RS	2015		11,212.12	6,614,259.78
Smart Saver Residential	RCFLSP	RS	2016		4,233.17	2,427,884.30
Smart Saver Residential	RCFLSP	RS01	2013		10.53	6,410.89
Smart Saver Residential	RCFLSP	RS01	2014		53.15	32,342.44
Smart Saver Residential	RCFLSP	RS01	2015		61.21	36,226.31
Smart Saver Residential	RCFLSP	RS01	2016		23.76	13,655.70
Smart Saver Residential	RCFLSP	RS3P	2013		2.57	1,600.48
Smart Saver Residential	RCFLSP	RS3P	2014		5.70	3,360.56
Smart Saver Residential	RCFLSP	RS3P	2015		3.14	1,832.97
Smart Saver Residential	RCFLSP	RS3P	2016		0.65	381.14
Smart Saver Residential	RLED	RS	2016		5,862.81	3,610,119.63
Smart Saver Residential	RLED	RS01	2016		54.81	33,750.05
Smart Saver Residential	RLED	RS3P	2016		1.72	1,061.63
Smart Saver Residential	SFEEAR	RS	2014		475.08	351,085.60
Smart Saver Residential	SFEEAR	RS	2015		2,007.05	1,483,357.60
Smart Saver Residential	SFEEAR	RS	2016		760.00	561,653.93
Smart Saver Residential	SFEEAR	RS01	2015		1.00	740.80
Smart Saver Residential	SFEEAR	RS01	2016		1.78	1,317.47
Smart Saver Residential	SFEEPW	RS	2014		229.50	165,991.00
Smart Saver Residential	SFEEPW	RS	2015		932.03	674,107.00
Smart Saver Residential	SFEEPW	RS	2016		364.60	263,704.58
Smart Saver Residential	SFEEPW	RS01	2015		0.45	322.00
Smart Saver Residential	SFEEPW	RS01	2016		0.85	617.17
Smart Saver Residential	SFEESH	RS	2014		318.75	232,936.20
Smart Saver Residential	SFEESH	RS	2015		1,364.13	996,861.60

Program	Product Code	Rate Class	Transaction Year	Lost Revenue KWH Dollars	Monthly Lost Revenue kW	Monthly Lost Revenue kWh
Smart Saver Residential	SFEESH	RS	2016		497.49	363,548.85
Smart Saver Residential	SFEESH	RS01	2015		0.66	478.80
Smart Saver Residential	SFEESH	RS01	2016		1.15	837.90
Smart Saver Residential	SSAC	RS	2013		2,716.91	471,760.80
Smart Saver Residential	SSAC	RS	2014		4,891.63	849,378.08
Smart Saver Residential	SSAC	RS	2015		3,849.70	758,576.23
Smart Saver Residential	SSAC	RS	2016		1,365.58	506,518.70
Smart Saver Residential	SSAC	RS01	2013		1.82	316.13
Smart Saver Residential	SSAC	RS01	2014		4.37	758.71
Smart Saver Residential	SSAC	RS01	2015		2.18	379.36
Smart Saver Residential	SSAC	RS01	2016		0.33	122.07
Smart Saver Residential	SSAC	RS3P	2016		0.66	244.14
Smart Saver Residential	SSACTU	RS	2013		1.68	594.75
Smart Saver Residential	SSACTU	RS	2014		3.96	1,404.00
Smart Saver Residential	SSACTU	RS	2015		0.33	117.00
Smart Saver Residential	SSAIAS	RS	2013		74.07	28,401.22
Smart Saver Residential	SSAIAS	RS	2014		163.35	62,631.80
Smart Saver Residential	SSAIAS	RS	2015		171.83	65,885.40
Smart Saver Residential	SSAIAS	RS	2016		129.93	49,820.75
Smart Saver Residential	SSDINS	RS	2013		1.93	683.28
Smart Saver Residential	SSDINS	RS	2014		9.64	3,416.40
Smart Saver Residential	SSDINS	RS	2015		3.86	1,366.56
Smart Saver Residential	SSDSEA	RS	2013		16.54	5,863.00
Smart Saver Residential	SSDSEA	RS	2014		25.26	8,954.40
Smart Saver Residential	SSDSEA	RS	2015		18.04	6,396.00
Smart Saver Residential	SSDSEA	RS	2016		1.88	666.25
Smart Saver Residential	SSHHP	RS	2013		1,777.88	1,006,955.43
Smart Saver Residential	SSHHP	RS	2014		4,051.97	2,294,953.56
Smart Saver Residential	SSHHP	RS	2015		3,242.64	1,784,220.76
Smart Saver Residential	SSHHP	RS	2016		861.25	321,564.95
Smart Saver Residential	SSHHP	RS01	2013		0.24	137.09
Smart Saver Residential	SSHHP	RS3P	2015		2.90	1,645.13
Smart Saver Residential	SSHPTU	RS	2013		1.01	375.57
Smart Saver Residential	SSHPTU	RS	2014		5.39	2,003.04
Smart Saver Residential	SSHPTU	RS	2015		10.78	4,006.08
Weatherization Pilot	WTZKWH	RS	2014		1,183.11	690,972.57
Weatherization Pilot	WTZKWH	RS	2015		2,153.67	1,283,152.90
Weatherization Pilot	WTZKWH	RS	2016		675.25	475,039.08
Weatherization Pilot	WTZKWH	RS01	2016		0.73	536.32
Small Business Energy Saver	SSBDIR	DM	2015		8,646.52	3,357,121.71
Small Business Energy Saver	SSBDIR	DM	2016		4,940.37	1,929,186.54
Small Business Energy Saver	SSBDIR	DS	2015	\$ 211,533	34,197.07	13,191,933.70
Small Business Energy Saver	SSBDIR	DS	2016	\$ 148,127	22,250.18	9,237,718.39
Small Business Energy Saver	SSBDIR	EH	2016		358.89	113,461.49
Grand Total				\$ 2,137,750	932,600.88	416,541,241.46

Program	Impacts			Shared Savings Calculation: (Avoided Cost - Program Costs) x Sharing Rate										Cost Recovery				Revenue Requirement		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R		
	Annual KWH Gross FR, @ Plant Total (Annualized)	Annual KW Gross FR, @ Plant Total (Annualized)	Participants	Total NPV Avoided Cost of Capacity / Total	Total NPV Avoided Cost of Energy / Total	Total NPV Avoided Cost of TRD / Total	Total Avoided Costs	Total Costs	Shared Savings Pool	Shared Savings Tier, pre-tax	Shared Savings Revenue	Non-M&V Costs	M&V Costs	Total Costs	Cost Recovery Revenue	Total Revenue	Lost Revenue Make Whole \$	Total Revenue Requirement (\$)		
Unit Type	KWH data	KW data	# of Measure Units data	\$ data	\$ data	\$ data	\$ data	\$ data	\$ data	\$ data	\$ data	\$ data	\$ data	\$ data	\$ data	\$ data	\$ data	\$ data		
Shared Savings Revenue																				
Res																				
Energy Efficiency																				
Energy Efficiency Education Program for Schools	3,205,508	863	6,000	\$ 518,604	\$ 695,581	\$ 480,098	\$ 1,704,283	\$ 533,192	\$ 1,171,091	15.65%	\$ 183,278	\$ 503,192	\$ 30,000	\$ 533,192	\$ 533,192	\$ 716,467	\$ -	\$ 716,467		
Home Energy Companion Report	97,847,412	25,019	400,092	\$ 2,451,508	\$ 2,880,420	\$ 2,852,637	\$ 7,684,646	\$ 4,632,106	\$ 3,052,540	15.65%	\$ 477,721	\$ 4,632,106	\$ 10,000	\$ 4,632,106	\$ 4,632,106	\$ 5,109,826	\$ -	\$ 5,109,826		
Low Income Neighborhood Program	600,001	184	1,339	\$ 121,479	\$ 144,739	\$ 123,593	\$ 389,812	\$ 687,106	\$ 297,295	15.65%	\$ 46,526	\$ 587,106	\$ 100,000	\$ 687,106	\$ 687,106	\$ 640,580	\$ -	\$ 640,580		
Low Income Weatherization - Pay for Performance	5,079,331	1,209	15,685	\$ 1,429,456	\$ 2,408,846	\$ 1,303,048	\$ 5,168,450	\$ 920,149	\$ 4,248,301	15.65%	\$ 664,857	\$ 890,149	\$ 30,000	\$ 920,149	\$ 920,149	\$ 1,585,025	\$ -	\$ 1,585,025		
Residential Energy Assessments	2,056,716	241	12,200	\$ 733,648	\$ 791,402	\$ 460,790	\$ 3,505,829	\$ 1,083,319	\$ 422,510	15.65%	\$ 66,123	\$ 1,083,319	\$ 50,000	\$ 1,083,319	\$ 1,083,319	\$ 1,349,462	\$ -	\$ 1,349,462		
Smart Saver Residential	37,620,011	4,242	1,009,178	\$ 3,220,649	\$ 9,658,316	\$ 4,343,047	\$ 17,221,812	\$ 8,486,154	\$ 8,735,658	15.65%	\$ 1,367,125	\$ 7,879,154	\$ 607,000	\$ 8,486,154	\$ 8,486,154	\$ 9,853,279	\$ -	\$ 9,853,279		
Total	147,007,038	31,758	1,489,753	\$ 7,995,423	\$ 16,579,204	\$ 9,100,203	\$ 33,674,831	\$ 16,342,026	\$ 17,332,805		\$ 2,712,574	\$ 15,515,026	\$ 827,000	\$ 16,342,026	\$ 16,342,026	\$ 19,054,600	\$ -	\$ 19,054,600		
Demand Response																				
Power Manager*	0	48,589	45,447	\$ 4,761,155	\$ -	\$ 4,512,228	\$ 9,273,384	\$ 2,308,344	\$ 6,965,040	15.65%	\$ 1,090,025	\$ 2,058,344	\$ 250,000	\$ 2,308,344	\$ 2,308,344	\$ 3,398,368	\$ -	\$ 3,398,368		
Power Manager* for Apartments	0	67	94	\$ 6,529	\$ -	\$ 9,323	\$ 15,892	\$ 336,717	\$ 120,365	15.65%	\$ 18,829	\$ 116,717	\$ 20,000	\$ 136,717	\$ 136,717	\$ 117,380	\$ -	\$ 117,380		
Total	0	48,656	45,541	\$ 4,767,685	\$ -	\$ 4,521,551	\$ 9,289,236	\$ 2,444,561	\$ 6,844,676		\$ 1,071,188	\$ 2,174,561	\$ 270,000	\$ 2,444,561	\$ 2,444,561	\$ 3,515,748	\$ -	\$ 3,515,748		
PJM																				
PJM Pilot Program - Residential	2	0	0	\$ -	\$ -	\$ -	\$ 632,494	\$ 67,742	\$ 564,752	15.65%	\$ 88,383	\$ -	\$ 67,742	\$ 67,742	\$ 67,742	\$ 156,126	\$ -	\$ 156,126		
Total	2	0	0	\$ -	\$ -	\$ -	\$ 632,494	\$ 67,742	\$ 564,752		\$ 88,383	\$ -	\$ 67,742	\$ 67,742	\$ 67,742	\$ 156,126	\$ -	\$ 156,126		
Nonres																				
Energy Efficiency																				
Power Manager* for Business - EE	1	62,631	23	\$ 15,507	\$ 14,711	\$ 14,622	\$ 44,841	\$ 135,617	\$ 890,776	15.65%	\$ 14,206	\$ 134,761	\$ 856	\$ 135,617	\$ 135,617	\$ 121,410	\$ 367	\$ 121,778		
Small Business Energy Saver	26,257,838	5,907	24,713,000	\$ 4,359,400	\$ 7,096,805	\$ 4,415,511	\$ 15,877,716	\$ 5,367,572	\$ 103,014	15.65%	\$ 1,444,832	\$ 5,252,572	\$ 115,000	\$ 5,367,572	\$ 5,367,572	\$ 7,012,403	\$ 135,503	\$ 7,147,906		
Smart Saver Non Residential Custom	23,557,184	2,689	15,702	\$ 3,861,123	\$ 5,439,191	\$ 1,746,876	\$ 9,047,190	\$ 3,208,863	\$ 5,838,327	15.65%	\$ 913,665	\$ 3,008,863	\$ 200,000	\$ 3,208,863	\$ 3,208,863	\$ 4,122,558	\$ 118,734	\$ 4,241,292		
Smart Saver Non Residential Performance Incentive Program	631,258	72	588,871	\$ 49,872	\$ 145,753	\$ 46,811	\$ 242,436	\$ 239,256	\$ 3,180	15.65%	\$ 498	\$ 239,256	\$ 239,256	\$ 239,256	\$ 239,256	\$ 1,182	\$ 242,938			
Smart Saver Non Residential Prescriptive	48,275,094	6,370	679,524	\$ 7,479,940	\$ 8,209,694	\$ 3,266,660	\$ 18,036,298	\$ 6,732,057	\$ 8,304,241	15.65%	\$ 1,299,699	\$ 6,660,057	\$ 71,000	\$ 6,732,057	\$ 6,732,057	\$ 8,631,666	\$ 148,415	\$ 8,780,081		
Total	96,744,065	14,861	25,991,984	\$ 9,765,842	\$ 20,996,154	\$ 9,486,484	\$ 40,244,486	\$ 15,683,365	\$ 24,956,116		\$ 3,844,426	\$ 15,395,116	\$ 398,249	\$ 15,683,365	\$ 15,683,365	\$ 19,527,991	\$ 409,199	\$ 19,937,191		
Demand Response																				
Power Manager* for Business - DR	1	0	247	\$ 24,157	\$ -	\$ 22,833	\$ 46,990	\$ 405,655	\$ 358,665	15.65%	\$ 56,131	\$ 396,511	\$ 9,144	\$ 405,655	\$ 405,655	\$ 349,524	\$ -	\$ 349,524		
PowerShare*	0	46,203	43,100	\$ 4,527,355	\$ -	\$ 4,279,196	\$ 8,806,550	\$ 3,079,934	\$ 5,726,617	15.65%	\$ 896,212	\$ 3,079,934	\$ 50,000	\$ 3,079,934	\$ 3,079,934	\$ 3,976,146	\$ -	\$ 3,976,146		
Total	0	46,450	43,171	\$ 4,551,511	\$ -	\$ 4,302,029	\$ 8,853,540	\$ 3,485,588	\$ 5,367,952		\$ 940,081	\$ 3,426,444	\$ 59,144	\$ 3,485,588	\$ 3,485,588	\$ 4,325,670	\$ -	\$ 4,325,670		
PJM																				
PJM Pilot Program - NonResidential	2	0	0	\$ -	\$ -	\$ -	\$ 516,084	\$ 32,258	\$ 483,826	15.65%	\$ 75,719	\$ -	\$ 32,258	\$ 32,258	\$ 32,258	\$ 107,976	\$ -	\$ 107,976		
Total	2	0	0	\$ -	\$ -	\$ -	\$ 516,084	\$ 32,258	\$ 483,826		\$ 75,719	\$ -	\$ 32,258	\$ 32,258	\$ 32,258	\$ 107,976	\$ -	\$ 107,976		
Total	241,751,643	141,725	27,529,830	\$ 27,080,461	\$ 37,575,359	\$ 27,410,268	\$ 93,214,666	\$ 38,055,540	\$ 55,159,126		\$ 8,632,371	\$ 36,401,147	\$ 1,654,393	\$ 38,055,540	\$ 38,055,540	\$ 46,687,911	\$ 409,199	\$ 46,747,587		
Cost Recovery Only																				
Nonres																				
Energy Efficiency																				
Merchantile Self-Direct	8,315,578	949	8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 1,068,533	\$ 2,000	\$ 1,070,533	\$ 1,070,533	\$ 1,070,533	\$ -	\$ 1,070,533			
Total	8,315,578	949	8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 1,068,533	\$ 2,000	\$ 1,070,533	\$ 1,070,533	\$ 1,070,533	\$ -	\$ 1,070,533			
Total	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ 2,000	\$ 1,070,533	\$ 1,070,533	\$ 1,070,533	\$ -	\$ 1,070,533			
Total	241,751,643	141,725	27,529,830	\$ 27,080,461	\$ 37,575,359	\$ 27,410,268	\$ 93,214,666	\$ 38,055,540	\$ 55,159,126		\$ 8,632,371	\$ 37,469,679	\$ 1,656,393	\$ 39,126,072	\$ 39,126,072	\$ 47,758,444	\$ 409,199	\$ 47,818,119		

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 Total costs for PJM EMV are as follows. Costs have been allocated to Residential and NonResidential based on forecasted KW.

Year 1 \$100,000

Year 2 \$100,000

Year 3 \$100,000

3 Expected Revenue Requirement if mandates are met, includes shared savings incentive.

Program	Rate Class	Transaction Year	Lost Revenue KWH Dollars	Monthly Lost Revenue kW	Monthly Lost Revenue kWh	Grand Total
Appliance Recycling Program	RS	2012		-	-	-
		2013		-	-	-
		2014		1,312.56	839,085.00	840,397.55
		2015		1,567.55	1,192,086.93	1,193,654.48
		2016		47.93	36,636.07	36,684.00
	RS01	2012		-	-	-
		2013		-	-	-
		2014		8.61	5,622.10	5,630.71
	RS3P	2015		13.81	10,754.31	10,768.12
		2014		0.25	201.62	201.87
Energy Efficiency Education Program for Schools	RS	2011	\$ -	-	-	-
		2012		-	-	-
		2013		-	-	-
		2014		13,287.65	1,077,303.25	1,090,590.90
		2015		9,284.24	1,702,710.00	1,711,994.24
		2016		12,668.84	4,874,731.00	4,887,399.84
	RS01	2011	\$ -	-	-	-
		2012		-	-	-
		2013		-	-	-
		2014		9.74	790.00	799.74
RS3P	2015		5.19	1,996.00	2,001.19	
	2016		16.86	6,487.00	6,503.86	
	2014		2.68	217.25	219.93	
Home Energy Comparison Report	RS	2010	\$ -	-	-	-
		2011	\$ -	-	-	-
	2012		-	-	-	
	2013		-	-	-	
	2014		-	-	-	
	2015		-	-	-	
Home Energy Solutions	RS	2014			516,444.33	516,444.33
		2015			1,167,788.00	1,167,788.00
	RS01	2016			561,152.00	561,152.00
		2014			1,278.67	1,278.67
Low Income Neighborhood Program	RS	2013		-	-	-
		2014		1,344.57	517,366.50	518,711.07
		2015		2,514.79	710,928.97	713,443.76
	RS01	2016		2,091.15	527,837.86	529,929.01
		2013		-	-	-
		2014		8.98	3,454.50	3,463.48
Low Income Services	RS	2009	\$ -	-	-	-
		2010	\$ -	-	-	-
	RS01	2011	\$ -	-	-	-
		2012		-	-	-
		2016		53.83	13,587.09	13,640.92
Mercantile Self-Direct	DM	2012		-	-	-
		2013		-	-	-
		2014		2,688.63	1,950,540.53	1,953,229.16
	DS	2015		81.91	30,375.00	30,456.91
		2016		229.82	55,033.75	55,263.57
		2011		-	-	-
		2012		-	-	-
		2013		-	-	-
		2014		339.22	215,199.42	215,538.65
	EH	2015		2,948.45	2,966,119.22	2,969,067.68
2016			854.73	460,581.30	461,436.03	
2012			-	-	-	
2013			-	-	-	
Residential Energy Assessments	RS	2015		2,819.82	2,052,332.04	2,055,151.86
		2016		54,524.25	38,793,171.03	38,847,695.28
		2009	\$ -	-	-	-
		2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2012		-	-	-
	RS01	2013		-	-	-
		2014		7,662.44	772,212.00	779,874.44
		2015		15,331.41	1,727,747.00	1,743,078.41
		2016		4,767.77	1,864,409.58	1,869,177.36
Small Business Energy Saver	RS01	2009	\$ -	-	-	-
		2010	\$ -	-	-	-
		2011	\$ -	-	-	-
	RS3P	2013		-	-	-
		2016		2.41	981.08	983.49
		2015		8,646.52	3,357,121.71	3,365,768.23
		2016		7,880.87	3,071,550.10	3,079,430.97
		2015	\$ 211,532.66	34,197.07	13,191,933.70	13,437,663.43
Smart Saver Non Residential Custom	DM	2016	\$ 245,107.04	36,965.10	15,285,752.45	15,567,824.60
		2016		424.93	134,601.06	135,025.99

Program	Rate Class	Transaction Year	Lost Revenue KWH Dollars	Monthly Lost Revenue kW	Monthly Lost Revenue kWh	Grand Total
		2011	\$ -	-	-	-
		2012	-	-	-	-
		2013	-	-	-	-
		2014	-	60.21	15,715.91	15,776.12
		2015	-	340.18	127,886.34	128,226.52
		2016	-	101.06	54,295.16	54,396.22
	DP	2009	\$ -	-	-	-
		2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2012	\$ -	-	-	-
		2013	\$ -	-	-	-
		2014	\$ 25,393.05	3,295.49	2,627,864.47	2,656,553.02
		2015	\$ 69,919.12	4,751.52	7,235,756.98	7,310,427.61
		2016	\$ 58,181.74	8,886.21	6,021,084.70	6,088,152.65
	DS	2009	\$ -	-	-	-
		2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2012	\$ -	-	-	-
		2013	\$ -	-	-	-
		2014	\$ 35,534.08	4,474.45	2,216,032.69	2,256,041.23
		2015	\$ 131,920.84	12,804.08	8,227,055.63	8,371,780.55
		2016	\$ 146,749.83	21,748.35	9,151,844.85	9,320,343.03
	EH	2011	\$ -	-	-	-
		2012	-	-	-	-
		2013	-	-	-	-
		2015	-	47.48	15,690.31	15,737.79
	TS	2012	-	-	-	-
		2014	-	5,525.12	2,988,881.36	2,994,406.48
		2015	-	20,583.12	13,885,322.46	13,905,905.58
		2016	-	5,880.34	4,295,715.28	4,301,595.62
Smart Saver Non Residential Prescriptive	DM	2009	\$ -	-	-	-
		2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2012	-	-	-	-
		2013	-	-	-	-
		2014	-	1,659.52	984,040.38	985,699.91
		2015	-	3,324.08	1,810,466.25	1,813,790.33
		2016	-	9,725.25	4,374,833.57	4,384,558.82
	DP	2009	\$ -	-	-	-
		2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2012	\$ -	-	-	-
		2013	\$ -	-	-	-
		2014	\$ 12,395.24	3,183.16	1,282,753.15	1,298,331.55
		2015	\$ 39,197.51	8,935.91	4,056,453.67	4,104,587.10
		2016	\$ 53,312.79	14,407.83	5,517,208.47	5,584,929.09
	DS	2009	\$ -	-	-	-
		2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2012	\$ -	-	-	-
		2013	\$ -	-	-	-
		2014	\$ 129,016.02	19,543.24	8,045,900.61	8,194,459.87
		2015	\$ 289,040.74	37,756.26	18,025,615.30	18,352,412.30
		2016	\$ 589,552.28	91,086.46	36,766,590.53	37,447,229.28
	EH	2009	\$ -	-	-	-
		2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2012	-	-	-	-
		2013	-	-	-	-
		2014	-	369.59	206,494.32	206,863.91
		2015	-	1,318.09	557,663.62	558,981.71
		2016	-	3,060.74	1,136,418.28	1,139,479.03
	RS01	2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2013	-	-	-	-
	TS	2009	\$ -	-	-	-
		2010	-	-	-	-
		2011	-	-	-	-
		2012	-	-	-	-
		2013	-	-	-	-
		2014	-	699.82	303,406.74	304,106.56
		2015	-	2,956.77	1,430,020.13	1,432,976.90
		2016	-	7,111.90	2,848,558.36	2,855,670.26
Smart Saver Residential	RS	2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2012	-	-	-	-
		2013	-	-	-	-
		2014	-	6,872.33	4,317,432.78	4,324,305.12
		2015	-	24,465.78	11,908,899.35	11,933,365.14
		2016	-	30,471.34	12,764,327.81	12,794,799.15
	RS01	2011	\$ -	-	-	-
		2012	-	-	-	-
		2013	-	-	-	-
		2014	-	32.88	20,135.66	20,168.54
		2015	-	64.75	38,649.56	38,714.31
		2016	-	133.17	81,233.92	81,367.09
	RS3P	2013	-	-	-	-
		2014	-	4.27	2,519.79	2,524.06
		2015	-	3.14	1,832.97	1,836.10
		2016	-	4.00	2,433.93	2,437.93
#N/A	RS	2009	\$ -	-	-	-

Program	Rate Class	Transaction Year	Lost Revenue KWH Dollars	Monthly Lost Revenue kW	Monthly Lost Revenue kWh	Grand Total
		2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2012	-	-	-	-
		2013	-	-	-	-
		2014	-	35,055.31	20,333,902.21	20,368,957.52
		2015	-	45,698.87	26,156,990.03	26,202,688.90
		2016	-	5,367.51	1,983,749.06	1,989,116.57
	RS01	2009	\$ -	-	-	-
		2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2012	-	-	-	-
		2013	-	-	-	-
		2014	-	226.13	137,861.40	138,087.53
		2015	-	361.96	220,861.42	221,223.38
		2016	-	0.31	(131.40)	(131.09)
	RS3P	2009	\$ -	-	-	-
		2010	\$ -	-	-	-
		2011	\$ -	-	-	-
		2012	-	-	-	-
		2013	-	-	-	-
		2014	-	7.46	4,574.46	4,581.92
		2015	-	15.25	9,213.64	9,228.90
		2016	-	1.32	488.29	489.61
Low Income Weatherization - Pay for Performance	RS	2014	-	83.44	52,254.80	52,338.23
		2015	-	2,153.67	1,283,152.90	1,285,306.57
		2016	-	1,369.91	975,218.17	976,588.08
	RS01	2016	-	0.84	613.10	613.94
Grand Total			\$ 2,036,852.94	670,659.12	324,210,795.02	326,918,307.09

Rider Revenue Rate 2016

Sum of RIDER EE	Column Labels												
Row Labels	1/1/2015	2/1/2015	3/1/2015	4/1/2015	5/1/2015	6/1/2015	7/1/2015	8/1/2015	9/1/2015	10/1/2015	11/1/2015	12/1/2015	Grand Total
DM	\$70,197	\$67,821	\$61,458	\$58,365	\$52,156	\$66,104	\$75,627	\$80,051	\$79,382	\$61,530	\$55,110	\$66,518	\$794,319
DP	\$288,114	\$270,364	\$277,849	\$278,596	\$286,582	\$322,503	\$341,450	\$363,080	\$349,586	\$304,644	\$286,742	\$291,111	\$3,660,621
DS	\$899,566	\$852,628	\$822,465	\$816,847	\$817,873	\$952,282	\$1,029,922	\$1,064,152	\$1,058,087	\$905,465	\$822,100	\$894,835	\$10,936,223
EH	\$14,268	\$15,372	\$11,204	\$9,487	\$7,861	\$254	-\$44	-\$25	-\$43	\$8,660	\$8,431	\$13,109	\$88,532
GF	\$3,517	\$3,520	\$3,812	\$3,533	\$3,464	\$3,554	\$3,554	\$3,553	\$3,600	\$3,578	\$3,578	\$3,578	\$42,842
OR	\$2,867	\$2,866	\$1,895	\$1,480	\$1,100	\$1,333	\$1,477	\$1,572	\$1,476	\$1,121	\$1,312	\$2,438	\$20,936
RS	\$2,456,264	\$2,322,620	\$1,896,389	\$1,612,210	\$1,424,347	\$1,996,507	\$2,524,068	\$2,788,339	\$2,552,964	\$1,793,310	\$1,498,092	\$2,178,878	\$25,043,990
SF	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$89
TD	\$1,836	\$1,637	\$1,434	\$1,256	\$1,129	\$71	\$103	\$103	\$93	\$68	\$54	\$87	\$7,870
TS	\$274,201	\$280,278	\$285,078	\$286,551	\$287,728	\$287,189	\$266,486	\$323,971	\$275,647	\$311,266	\$268,807	\$299,784	\$3,446,987
Grand Total	\$4,010,837	\$3,817,114	\$3,361,590	\$3,068,333	\$2,882,247	\$3,629,806	\$4,242,650	\$4,624,803	\$4,320,799	\$3,389,650	\$2,944,234	\$3,750,345	\$44,042,408

DUKE ENERGY OHIO
KWH BY MONTH AND RATE FOR RATES DS, DP, AND TS
JANUARY 2016 - DECEMBER 2016

Sum of	USAGE	Column Labels			
Row Labels	DP	DS	TS	Grand Total	
1/1/2016	172,523,509	538,588,145	281,482,725	992,594,379	
2/1/2016	161,894,709	510,237,425	291,740,567	963,872,701	
3/1/2016	166,376,515	491,906,167	293,057,010	951,339,692	
4/1/2016	166,812,878	488,689,311	282,682,263	938,184,452	
5/1/2016	171,603,003	489,396,777	297,302,382	958,302,162	
6/1/2016	193,114,640	569,674,511	282,110,240	1,044,899,391	
7/1/2016	204,461,155	616,332,539	267,361,009	1,088,154,703	
8/1/2016	217,412,883	636,911,368	320,120,565	1,174,444,816	
9/1/2016	209,332,575	633,257,676	284,470,709	1,127,060,960	
10/1/2016	182,421,429	541,892,280	302,083,811	1,026,397,520	
11/1/2016	171,701,801	491,939,956	275,521,564	939,163,321	
12/1/2016	174,317,882	535,603,043	296,630,073	1,006,550,998	
Grand Total	2,191,972,979	6,544,429,198	3,474,562,918	12,210,965,095	

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

Year	July 2017 - June 2018
Projected Annual Electric Sales KWH	
Residential Rates RS, ORH, TD, RS3P, RSLI, TD-13	7,253,699,377
Non-Residential Rates DS, DP, DM, GS-FL, EH, SP, SFL-ADPL, TS, RTP, & CUR	12,878,277,157
Non-Residential Rates DS, DP, & TS	12,134,950,580

2017 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	2017 Expected Program Costs & Shared Savings	2017 Expected Lost Revenues (DS, DP, TS)	Total Revenue Requirements	Total Revenue Requirements Plus CAT (b)	Estimated Billing Determinants	Effective July 2017 Energy Efficiency and Peak Demand Response Recovery Rider (EE-PDRR)
	Case No. 13-753, 14-457, 15-534 (c)			Case No. 17-xxx-EL-RDR								
	A	B	C	D	E	F	G	H	A+B+C+D+E+F+G+H+AA+BB+CC+HH			
Electric Rider DSM												
Residential Rates RS, ORH, TD, RS3P, RSLI, TD-13	\$ (d) 57,060,033	\$ (a) -	\$ (48,028,991)	\$ (d) 12,949,286	\$ (a) -	\$ (25,072,795)	\$ 22,726,474	\$ (a) -	\$ 10,247,472	\$ 10,274,185	7,253,699,377 kWh	\$ 0.001416 \$/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)	\$ 25,031,970	\$ -	\$ 45,790,754	\$ 45,910,121	12,878,277,157 kWh	\$ 0.003565 \$/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)		\$ 2,446,052	\$ (1,043,755)	\$ (1,046,476)	12,134,950,580 kWh	\$ (0.000086) \$/kWh
Total Recovery	\$ 109,516,606	\$ 5,653,696	\$ (101,507,263)	\$ 44,523,494	\$ 2,137,750	\$ (44,042,408)	\$ 47,758,444	\$ 2,446,052	\$ 54,994,471	\$ 55,137,831		
	2015 Actual Program Costs & Shared Savings	2015 Actual Lost Revenues (DS, DP, TS)	2015 Actual Riders EE-PDRR Revenues	Adjustments From Page 11 Case No. 16-664-EL-RDR (as-filed, pending)				Adjustments From Page 11 Case No. 14-457, 15-534	Adjustments From Pages 12 and 13 Case No. 16-654, 17-781			
	AA	BB	CC	GG (Amounts Included in Column A)				HH (Amounts Included in Total Revenue Requirement)				
Electric Rider DSM												
Residential Rates RS, ORH, TD, RS3P, RSLI, TD-13	\$ (d) 16,413,356	\$ (a) -	\$ (24,879,730)				\$ (1,861,446)		\$ (920,160)			
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)				\$ (3,137,530)		\$ (401,889)			
Distribution Level Rates - Lost Revenue Recovery (Part B) Applies to Rates DS, DP, TS, & RTP		\$ 1,940,545	\$ (3,215,679)									
Total Recovery	\$ 31,531,908	\$ 1,940,545	\$ (43,642,302)									
Total Charge for Residential Rates RS, ORH, TD, RS3P, RSLI, TD-2013												\$ 0.001416 \$/kWh
Total Charge for Rates DM, GS-FL, EH, SFL-ADPL, & CUR (Part A Only)												\$ 0.003565 \$/kWh
Total Charge for Rates DS, DP, TS, & RTP (Part A plus Part B)												\$ 0.003479 \$/kWh

Note: (a) Rider DDR (Distribution Decoupling Rider) does not apply to Rates DS, DP, and TS. These rates are therefore subject to lost distribution revenue recovery under Rider EE-PDR.
(b) Commercial Activity Tax (CAT) factor is 1.0026068
(c) Includes adjustments ordered in Case No. 14-457-EL-RDR and 15-534-EL-RDR. Adjustments are shown in GG.
(d) M&V costs are included in the Shared Savings calculation per the order in Case No. 13-753-EL-RDR

Duke Energy Ohio
Energy Efficiency and Peak Demand Response Rider
Adjustments Per Orders In Case No. 14-457-EL-RDR and Case No. 15-534-EL-RDR

Case No. 15-534-EL-RDR Expenses

		<u>Adjustment</u>
Residential Program Costs as filed in Case No. 15-534-EL-RDR (Work paper dated 3/30/2015, page 3 of 10, column O)	\$19,053,630	
Non-Residential Program Costs as filed in Case No. 15-534-EL-RDR (Work paper dated 3/30/2015, page 3 of 10, column O)	<u>\$11,554,715</u>	
Total Program Costs (excluding Mercantile Self-Direct) as filed in Case No. 15-534-EL-RDR	\$30,608,345	
Residential Program Costs as filed in Case No. 15-534-EL-RDR (Work paper dated 3/30/2015, page 3 of 10, column M) (%)	62.25%	
Non-Residential Program Costs as filed in Case No. 15-534-EL-RDR (Work paper dated 3/30/2015, page 3 of 10, column M) (%)	37.75%	
Total Program Costs (excluding Mercantile Self-Direct) as filed in Case No. 15-534-EL-RDR (%)	100.00%	
Expense Reduction Per Opinion and Order dated October 26, 2016 in Case No. 15-534-EL-RDR	-\$409,096	
Expense Reduction allocated to residential rate		-\$254,661
Expense Reduction allocated to non-residential rate		<u>-\$154,435</u>
		-\$409,096

Case No. 14-457-EL-RDR and Case No. 15-534-EL-RDR Shared Savings

Residential Shared Savings as filed in Case No. 14-457-EL-RDR (Revised work paper dated 4/17/2014, page 3 of 10, column L)	\$3,794,952	
Adjustment to Residential Shared Savings per Order in Case No. 13-753-EL-RDR (Revised work paper, page 10)	<u>-\$154,938</u>	
Total Residential Shared Savings in Case No. 14-457-EL-RDR	\$3,640,014	
Non-Residential Shared Savings as filed in Case No. 14-457-EL-RDR (Revised work paper dated 4/17/2014, page 3 of 10, column L)	\$7,840,200	
Adjustment to Non-Residential Shared Savings per Order in Case No. 13-753-EL-RDR (Revised work paper, page 10)	<u>-\$115,522</u>	
Total Non-Residential Shared Savings in Case No. 14-457-EL-RDR	\$7,724,678	
Residential Shared Savings as filed in Case No. 15-534-EL-RDR (Work paper dated 3/30/2015, page 3 of 10, column L)	\$4,880,675	
Non-Residential Shared Savings as filed in Case No. 15-534-EL-RDR (Work paper dated 3/30/2015, page 3 of 10, column L)	\$8,094,513	
Total Residential Shared Savings as filed in Case No. 14-457-EL-RDR and Case No. 15-534-EL-RDR from above	\$8,520,689	
Total Non-Residential Shared Savings as filed in Case No. 14-457-EL-RDR and Case No. 15-534-EL-RDR from above	<u>\$15,819,191</u>	
Total Shared Savings as filed in Case No. 14-457-EL-RDR and Case No. 15-534-EL-RDR from above	\$24,339,880	
Total Residential Shared Savings as filed in Case No. 14-457-EL-RDR and Case No. 15-534-EL-RDR from above (%)	35.01%	
Total Non-Residential Shared Savings as filed in Case No. 14-457-EL-RDR and Case No. 15-534-EL-RDR from above (%)	64.99%	
Total Shared Savings as filed in Case No. 14-457-EL-RDR and Case No. 15-534-EL-RDR from above (%)	100.00%	
Shared Savings Allowed Per Stipulation	\$19,750,000	
Total Shared Savings as filed in Case No. 14-457-EL-RDR and Case No. 15-534-EL-RDR from above	<u>\$24,339,880</u>	
Reduction in Shared Savings from Stipulation	-\$4,589,880	
Reduction in Shared Savings from Stipulation allocated to residential rate		-\$1,606,784
Reduction in Shared Savings from Stipulation allocated to non-residential rate		<u>-\$2,983,096</u>
		-\$4,589,880

**Duke Energy Ohio
Energy Efficiency and Peak Demand Response Rider
Adjustments Per Order In Case No. 16-664-EL-RDR**

Worksheet		Used in Staff Letter	
\$	276,289	Removal Incentives	\$ 276,290 rounding
	16,077	Meals and Ent -	\$ 16,077
	5,603	Remv Sponsorship	\$ 38,803
	601,417	Spons & Error	\$ 566,250 Reversed by DEO in March 2018 filing.
	30,644	Employee Expense	\$ 32,611
	5,476	DeMinimus	\$ 5,476
<hr/>		<hr/>	
\$	935,506		935,507
<hr/>		<hr/>	

Residential	\$	619,401
Non-residential	\$	99,556
Not specified	\$	216,549
	\$	935,506

Residential + 50%	\$	727,675
Non-residential + !	\$	207,830
	\$	935,506

Duke Energy Ohio
Energy Efficiency and Peak Demand Response Rider
Adjustments Per Orders In Case No. 17-781-EL-RDR

Incentives	299,822
Promotional Advertising	500
Meals, Snacks, and Drinks	6,211
Sponsorships	34,025
Employee Expenses	18,208
Misc Exp Charges	293
De Minimis Expenses	27,485
	<hr/>
	386,544
	<hr/>

Residential	\$	83,230
Non-residential	\$	84,804
Not specified	\$	218,510

Residential + 50% Not Specified	\$	192,485
Non-residential + 50% Not Specified	\$	194,059
	\$	386,544