

**Duke Energy Kentucky
Case No. 2015-00368
Staff First Set Data Requests
Date Received: January 14, 2016**

STAFF-DR-01-009

REQUEST:

Refer to the Application, Exhibit B. Provide a copy of this exhibit in Excel spreadsheet format with all formulas intact and unprotected, and with all columns and row accessible.

RESPONSE: Please see STAFF DR 01-009.xlsx

PERSON RESPONSIBLE: Stephanie Simpson

Kentucky DSM Rider
 Comparison of Revenue Requirement to Rider Recovery

Residential Programs	(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)	(9)		(10)	(11)	(12)	(13)	(14)
	Projected Program Costs 7/2014 to 6/2015 (A)	Projected Lost Revenues 7/2014 to 6/2015 (A)	Projected Shared Savings 7/2014 to 6/2015 (A)	Program Expenditures 7/2014 to 6/2015 (B)	Program Expenditures (C)		Lost Revenues 7/2014 to 6/2015 (B)	Shared Savings 7/2014 to 6/2015 (B)	2014 Reconciliation		Rider Collection (F)	(Over)/Under Collection Gas (G) Electric (H)				
					Gas	Electric			Gas (D)	Electric (E)	Gas	Electric				
Appliance Recycling Program	\$ 193,426	\$ 104,715	\$ 83,130	\$ 141,855	\$ -	\$ 141,855	\$ 66,389	\$ (774)								
Energy Efficiency Education Program for Schools	\$ 229,075	\$ 18,779	\$ (12,239)	\$ 432,452	\$ 103,405	\$ 329,047	\$ 34,865	\$ 2,644								
Low Income Neighborhood	\$ 356,583	\$ 44,247	\$ 7,374	\$ 388,255	\$ -	\$ 388,255	\$ 53,205	\$ 5,819								
Low Income Services	\$ 886,258	\$ 39,097	\$ (31,172)	\$ 758,219	\$ 319,189	\$ 439,030	\$ 42,434	\$ (14,985)								
My Home Energy Report	\$ 574,536	\$ 468,204	\$ 45,284	\$ 721,822	\$ -	\$ 721,822	\$ 565,621	\$ 59,622								
Residential Energy Assessments	\$ 189,993	\$ 28,311	\$ 12,192	\$ 236,719	\$ 83,281	\$ 153,438	\$ 48,741	\$ 59,151								
Residential Smart Saver®	\$ 1,288,736	\$ 1,575,659	\$ 159,818	\$ 1,909,868	\$ 1,075	\$ 1,908,793	\$ 2,165,542	\$ 341,287								
Power Manager	\$ 566,066	\$ -	\$ 130,089	\$ 547,168	\$ -	\$ 547,168	\$ -	\$ 122,563								
Personal Energy Report Program (I)	\$ -	\$ 2,950	\$ -	\$ -	\$ -	\$ -	\$ 37,820	\$ -								
Home Energy Assistance Pilot Program (J)	\$ 252,236	\$ -	\$ -	\$ 149,004	\$ 62,648	\$ 86,356	\$ -	\$ -			\$ 106,710	\$ 147,094				
Revenues collected except for HEA											\$ 3,787,850	\$ 4,880,872				
Total	\$ 4,536,910	\$ 2,281,961	\$ 394,476	\$ 5,285,361	\$ 569,596	\$ 4,715,764	\$ 3,014,618	\$ 575,328	\$ 5,729,820	\$ 1,769,497	\$ 3,894,560	\$ 5,027,966	\$ 2,404,856	\$ 5,047,241		

- (A) Amounts identified in report filed in Case No. 2013-00395.
- (B) Actual program expenditures, lost revenues (for this period and from prior period DSM measure installations), and shared savings for the period July 1, 2014 through June 30, 2015.
- (C) Allocation of program expenditures to gas and electric in accordance with the Commission's Order in Case No. 2014-00388.
- (D) Recovery allowed in accordance with the Commission's Order in Case No. 2012-00085.
- (E) Recovery allowed in accordance with the Commission's Order in Case No. 2012-00085.
- (F) Revenues collected through the DSM Rider between July 1, 2014 and June 30, 2015.
- (G) Column (5) + Column (9) - Column(11).
- (H) Column (6) + Column (7) + Column (8) + Column (10) - Column(12).
- (I) Personalized Energy Report is a legacy program which continues to collect lost revenues.
- (J) Revenues and expenses for the Home Energy Assistance Pilot Program.

Commercial Programs	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Projected Program Costs 7/2014 to 6/2015 (A)	Projected Lost Revenues 7/2014 to 6/2015 (A)	Projected Shared Savings 7/2014 to 6/2015 (A)	Program Expenditures 7/2014 to 6/2015 (B)	Lost Revenues 7/2014 to 6/2015 (B)	Shared Savings 7/2014 to 6/2015 (B)	2014 Reconciliation (C)	Rider Collection (D)	(Over)/Under Collection (E)
Smart Saver® Custom	\$ 393,983	\$ 129,375	\$ 101,449	\$ 520,786	\$ 114,090	\$ 338,055			
Smart Saver® Prescriptive - Energy Star Food Service Prod	\$ 18,463	\$ 7,815	\$ 12,013	\$ 55,364	\$ 18,914	\$ 38,548			
Smart Saver® Prescriptive - HVAC	\$ 164,436	\$ 47,807	\$ 80,058	\$ 193,103	\$ (42,282)	\$ 51,312			
Smart Saver® Prescriptive - Lighting	\$ 634,676	\$ 290,867	\$ 310,371	\$ 717,495	\$ 246,378	\$ 288,311			
Smart Saver® Prescriptive - Motors/Pumps/VFD	\$ 43,292	\$ 33,510	\$ 36,676	\$ 59,002	\$ 17,687	\$ 32,817			
Smart Saver® Prescriptive - Process Equipment	\$ 1,630	\$ 1,588	\$ 1,131	\$ 10,935	\$ 3,111	\$ 6,170			
Smart Saver® Prescriptive - IT	\$ 9,919	\$ 1,490	\$ 3,005	\$ 1,691	\$ -	\$ (169)			
Small Business Energy Saver (G)	\$ 243,051	\$ 14,152	\$ 38,275	\$ 140,841	\$ 1,683	\$ 39,360			
Total	\$ 1,509,450	\$ 526,603	\$ 582,978	\$ 1,699,217	\$ 359,580	\$ 794,404	\$ (160,274)	\$ 969,939	\$ 1,722,988
Power Share®	\$ 1,022,924	\$ -	\$ 332,441	\$ 926,071	\$ -	\$ 274,739	\$ (664,129)	\$ 2,019,111	\$ (1,482,429)
Energy Management and Information Services (F)			\$ 459						

- (A) Amounts identified in report filed in Case No. 2013-00395.
- (B) Actual program expenditures, lost revenues (for this period and from prior period DSM measure installations), and shared savings for the period July 1, 2014 through June 30, 2015.
- (C) Recovery allowed in accordance with the Commission's Order in Case No. 2012-00085.
- (D) Revenues collected through the DSM Rider between July 1, 2014 and June 30, 2015.
- (E) Column (4) + Column (5) + Column (6) + Column (7) - Column (8)
- (F) Discontinued pilot program does not receive cost recovery.
- (G) Amounts identified in report filed in Case No. 2014-00280.

Kentucky DSM Rider

2016-2017 Projected Program Costs, Lost Revenues, and Shared Savings

Residential Program Summary (A)

	Residential Program Summary (A)				Allocation of Costs (B)		Budget (Costs, Lost Revenues, & Shared Savings)		
	Costs	Lost Revenues	Shared Savings	Total	Electric	Gas	Electric Costs	Electric	Gas Costs
Appliance Recycling Program	\$ 103,625	\$ 53,818	\$ 1,678	\$ 159,121	100.0%	0.0%	\$ 103,625	\$ 159,121	\$ -
Energy Efficiency Education Program for Schools	\$ 289,680	\$ 75,058	\$ 121,340	\$ 486,078	77.4%	22.6%	\$ 224,147	\$ 420,546	\$ 65,532
Low Income Neighborhood	\$ 277,903	\$ 94,535	\$ (14,666)	\$ 357,773	100.0%	0.0%	\$ 277,903	\$ 357,773	\$ -
Low Income Services	\$ 897,034	\$ 62,303	\$ (19,490)	\$ 939,848	60.7%	39.3%	\$ 544,408	\$ 587,222	\$ 352,626
My Home Energy Report	\$ 708,212	\$ 285,212	\$ 91,859	\$ 1,085,284	100.0%	0.0%	\$ 708,212	\$ 1,085,284	\$ -
Residential Energy Assessments	\$ 261,860	\$ 60,228	\$ 27,065	\$ 349,153	70.6%	29.4%	\$ 184,887	\$ 272,180	\$ 76,974
Residential Smart Saver®	\$ 1,215,972	\$ 959,527	\$ 148,226	\$ 2,323,725	100.0%	0.0%	\$ 1,215,972	\$ 2,323,725	\$ -
Power Manager	\$ 441,305	\$ -	\$ 150,922	\$ 592,228	100.0%	0.0%	\$ 441,305	\$ 592,228	\$ -
Total Costs, Net Lost Revenues, Shared Savings	\$ 4,195,593	\$ 1,590,683	\$ 506,935	\$ 6,293,210			\$ 3,700,460	\$ 5,798,078	\$ 495,132
Home Energy Assistance Pilot Program	\$ 253,804							\$ 147,094	\$ 106,710

NonResidential Program Summary (A)

	NonResidential Program Summary (A)				Allocation of Costs (B)		Budget (Costs, Lost Revenues, & Shared Savings)		
	Costs	Lost Revenues	Shared Savings	Total	Electric	Gas	Electric Costs	Electric	Gas
Smart Saver® Custom	\$ 441,312	\$ 195,829	\$ 197,106	\$ 834,247	100.0%	0.0%	\$ 441,312	\$ 834,247	NA
Smart Saver® Prescriptive - Energy Star Food Service Products	\$ 139,148	\$ 24,549	\$ 48,680	\$ 212,378	100.0%	0.0%	\$ 139,148	\$ 212,378	NA
Smart Saver® Prescriptive - HVAC	\$ 638,628	\$ 46,137	\$ 113,676	\$ 798,441	100.0%	0.0%	\$ 638,628	\$ 798,441	NA
Smart Saver® Prescriptive - Lighting	\$ 1,043,273	\$ 309,355	\$ 272,832	\$ 1,625,459	100.0%	0.0%	\$ 1,043,273	\$ 1,625,459	NA
Smart Saver® Prescriptive - Motors/Pumps/VFD	\$ 47,256	\$ 17,175	\$ 17,469	\$ 81,900	100.0%	0.0%	\$ 47,256	\$ 81,900	NA
Smart Saver® Prescriptive - Process Equipment	\$ 28,558	\$ 2,961	\$ 18,594	\$ 50,114	100.0%	0.0%	\$ 28,558	\$ 50,114	NA
Smart Saver® Prescriptive - IT	\$ 79,342	\$ 8,512	\$ 23,324	\$ 111,177	100.0%	0.0%	\$ 79,342	\$ 111,177	NA
Small Business Energy Saver	\$ 898,978	\$ 96,129	\$ 251,111	\$ 1,246,218	100.0%	0.0%	\$ 898,978	\$ 1,246,218	NA
Power Share®	\$ 1,262,732	\$ -	\$ 351,711	\$ 1,614,443	100.0%	0.0%	\$ 1,262,732	\$ 1,614,443	NA
Total Costs, Net Lost Revenues, Shared Savings	\$ 4,579,227	\$ 700,648	\$ 1,294,503	\$ 6,574,378			\$ 4,579,227	\$ 6,574,378	NA
Total Program	\$ 8,774,819	\$ 2,291,331	\$ 1,801,437	\$ 12,867,588					

(A) Costs, Lost Revenues (for this period and from prior period DSM measure installations), and Shared Savings for Year 5 of portfolio.
 (B) Allocation of program expenditures to gas and electric in accordance with the Commission's Order in Case No. 2014-00388.

Kentucky DSM Rider

Duke Energy Kentucky
Demand Side Management Cost Recovery Rider (DSMR)
Summary of Calculations for Programs

July 2016 to June 2017

	Program Costs (A)
<u>Electric Rider DSM</u>	
Residential Rate RS	\$ 5,798,078
Distribution Level Rates Part A DS, DP, DT, GS-FL, EH & SP	\$ 4,959,935
Transmission Level Rates & Distribution Level Rates Part B	\$ 1,614,443
<u>Gas Rider DSM</u>	
Residential Rate RS	\$ 495,132

(A) See Appendix B, page 2 of 7.

Kentucky DSM Rider

Duke Energy Kentucky
Demand Side Management Cost Recovery Rider (DSMR)
Summary of Billing Determinants

Year	2016
Projected Annual Electric Sales kWH	
Rate RS	1,522,442,000
Rates DS, DP, DT, GS-FL, EH, & SP	2,468,022,000
Rates DS, DP, DT, GS-FL, EH, SP, & TT	2,671,558,000
Projected Annual Gas Sales CCF	
Rate RS	64,884,690

Kentucky DSM Rider
 Duke Energy Kentucky
 Demand Side Management Cost Recovery Rider (DSMR)
 Summary of Calculations
 July 2015 to June 2016

Rate Schedule Riders	True-Up Amount (A)	Expected Program Costs (B)	Total DSM Revenue Requirements	Estimated Billing Determinants (C)	DSM Cost Recovery Rider (DSMR)
<u>Electric Rider DSM</u> Residential Rate RS	\$ 5,053,508	\$ 5,798,078	\$ 10,851,586	1,522,442,000 kWh	\$ 0.007128 \$/kWh
Distribution Level Rates Part A DS, DP, DT, GS-FL, EH & SP	\$ 1,725,127	\$ 4,959,935	\$ 6,685,062	2,468,022,000 kWh	\$ 0.002709 \$/kWh
Transmission Level Rates & Distribution Level Rates Part B TT	\$ (1,484,270)	\$ 1,614,443	\$ 130,173	2,671,558,000 kWh	\$ 0.000049 \$/kWh
Distribution Level Rates Total DS, DP, DT, GS-FL, EH & SP					\$ 0.002757 \$/kWh
<u>Gas Rider DSM</u> Residential Rate RS	\$ 2,407,842	\$ 495,132	\$ 2,902,974	64,884,690 CCF	\$ 0.044741 \$/CCF
Total Rider Recovery			\$ 20,569,795		
Customer Charge for HEA Program <u>Electric No.4</u> Residential Rate RS			Annual Revenues \$ 147,094	Number of Customers 122,578	Monthly Customer Charge \$ 0.10
<u>Gas No. 5</u> Residential Rate RS			\$ 106,710	88,925	\$ 0.10
Total Customer Charge Revenues			\$ 253,804		
Total Recovery			\$ 20,823,598		

(A) (Over)/Under of Appendix B page 1 multiplied by the average three-month commercial paper rate for 2014 to include interest on over or under-recovery in accordance with the Commission's order in Case No. 95-312. Value is:
 (B) Appendix B, page 2.
 (C) Appendix B, page 4.

1.001242

Allocation Factors based on July 2014 -
 June 2015

Residential Programs	Summary of Load Impacts July 2014 Through June 2015*				Elec % of Total Sales	% of Gas Sales	% of Total Res Sales
	kWh	% of Total Res Sales	ccf	% of Total Res Sales			
Appliance Recycling Program	316,032	0.0214%	-	0.0000%	100%	0%	
Energy Efficiency Education Program for Schools	577,006	0.0390%	8,409	0.0123%	76%	24%	
Low Income Neighborhood	557,078	0.0377%	-	0.0000%	100%	0%	
Low Income Services	351,265	0.0238%	11,844	0.0173%	58%	42%	
My Home Energy Report	10,869,228	0.7354%	-	0.0000%	100%	0%	
Residential Energy Assessments	447,175	0.0303%	11,256	0.0164%	65%	35%	
Residential Smart Saver®	8,639,278	0.5845%	226	0.0003%	100%	0%	
Power Manager	-	0.0000%	-	0.0000%	100%	0%	
Total Residential	21,757,061	1.4721%	31,735	0.0463%			
Total Residential (Rate RS) Sales For July 2014 Through June 2015	1,477,944,577	100%	68,542,402	100%			

*Load Impacts Net of Free Riders at Meter

Allocation Factors based on July 2016 -
 June 2017

Residential Programs	Summary of Load Impacts July 2016 Through June 2017*				Elec % of Total Sales	% of Total Sales	Gas % of Total Sales
	kWh	% of Total Res Sales	ccf	% of Total Res Sales			
Appliance Recycling Program	225,480	0.0148%	-	0.0000%	100%	0%	
Energy Efficiency Education Program for Schools	457,458	0.0300%	5,700	0.0088%	77%	23%	
Low Income Neighborhood	221,382	0.0145%	-	0.0000%	100%	0%	
Low Income Services	346,183	0.0227%	9,556	0.0147%	61%	39%	
My Home Energy Report	11,472,966	0.7536%	-	0.0000%	100%	0%	
Residential Energy Assessments	656,195	0.0431%	11,643	0.0179%	71%	29%	
Residential Smart Saver®	3,354,878	0.2204%	-	0.0000%	100%	0%	
Power Manager***	-	0.0000%	-	0.0000%	100%	0%	
Total Residential	16,734,542	1.0992%	26,900	0.0415%			
Total Residential (Rate RS) Sales Projected	1,522,442,000	100%	64,884,690	100%			

*Load Impacts Net of Free Riders at Meter