### KENTUCKY POWER COMPANY Demand Side Management Status Report

As of December 31, 2015

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#### **DEFINITIONS**

1) YTD Costs - Year-to-Date costs recorded through December 31, 2015.

2) YTD Impacts - Estimated in place load impacts for Year-to-Date participants.

3) PTD Costs - Costs recorded from the inception of the program through December 31, 2015

4) PTD Impacts - Estimated in place load impacts for Program-to-Date participants.

#### **COMMENTS**

Our calculations are based on actual participants and costs as of December 31, 2015.

The estimated actual in-place energy (kWh) savings represents the annual energy savings for customers beginning program participation in the reported period. It is computed by applying the average customer annual net energy savings, including 9.0% T&D losses. The savings are included with the latest program evaluation report or the initially filed program estimate where an evaluation report has not been completed. The estimated actual in place energy (kWH) savings are calculated in accordance with the Sunset Provision contained in the joint application, filed September 27, 1995.

The estimated anticipated peak demand (kW) reduction is a product of the number of net participating customers or measure quantity (excluding free riders) and projected winter/summer demand reductions filed for each program. The anticipated peak demand (kW) reductions include a 10.0% T&D loss savings.

The calculation of YTD and PTD estimated in place energy (kWh) savings and anticipated peak demand (kW) reductions contained in this status report reflect, wherever applicable, the program evaluation results of each individual program as described in the August 16, 1999, June 30, 2002, June 30, 2005, June 30, 2008, June 30, 2010, August 15, 2011, August 15, 2012, and August 15, 2014, DSM collaborative report.

The individual DSM lost revenue, efficiency incentive and maximizing incentives as of June 30, 1997 are calculated based on the initial values from Exhibit E in the joint application, filed September 27, 1995. A retroactive adjustment of the initial values of the efficiency incentives and net lost revenue KWH impacts was used for each program for the first eighteen months (1/1/96 to 6/30/97). The lost revenue, efficiency incentive and maximizing incentive for the period 1/1/2016 to 12/31/2016 are calculated using the revised values contained in Schedule C of this status report.

The program lost revenue is the product of the number of participating customers, the average net energy savings (kWh) per customer and the net lost revenue (\$/kWh). The number of participating customers is equal to 1/2 of the new participants for the current month, plus the cumulative participants from the previous months. The program-to-date lost revenues are calculated in accordance with the Sunset Provision contained in the joint application, filed September 27, 1995.

The efficiency incentive is the product of the number of participants for the month and the efficiency rate (\$/participant). The maximizing incentive is calculated as 5% of actual program cost for the month.

### **KENTUCKY POWER COMPANY** SUMMARY INFORMATION (ALL PROGRAMS)

As of December 31, 2015

DESCRIPTION	YTD	PTD
Total Revenue Collected	\$3,376,417	\$36,272,469
Total Program Costs	\$5,585,847	\$28,979,769
Total Lost Revenues	\$2,026,303	\$8,953,453
Total Efficiency / Maximizing Incentive	\$612,294	\$3,512,383
HEAP - Kentucky Power's Information Technology Implementation Costs (Case No 2006 - 00373, Dated December 14, 2006)	\$0	\$58,968
HEAP - KACA's Information Technology Implementation Costs	\$0	\$15,700
Total DSM Costs As of December 31, 2015	\$8,224,444	\$41,520,273

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### KENTUCKY POWER COMPANY SUMMARY INFORMATION (ALL PROGRAMS)

As of December 31, 2015

DESCRIPTION	YTD		PTD	
Actual In-Place Energy Savings:	26,668,537	kWh	650,554,995	kWh
w/ T&D Line Losses:	29,068,705	kWh	709,104,945	kWh
Total kW Reductions:				
Winter w/ T&D Line Losses: Summer w/ T&D Line Losses:	3,604 3,964 2,875 3,162	kW kW kW kW	38,460 42,306 16,016 17,618	kW kW kW kW

PROGRAM:	General Residential Administrative
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

Costs			
		Retroactive	
Description	<u>Year-To-Date</u>	Adjustment	Program-To-Date
Administrative	\$150,848	\$0	\$181,629
Promotion	\$0	\$0	<b>\$</b> 0
Other			
Total Costs	\$150,848	\$0	\$181,629

### COMMENTS:

Administrative expense represents EE Market Potential Assessment and DSM Program Plan Program Plan services which began Fall 2014. The category will continue to reflect portfolio expenses related to Evaluation, Measurement and Verification work.

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### **PROGRAM INFORMATION**

PROGRAM:	Targeted Energy Efficiency
PARTICIPANT DEFINITION:	Number of Households
CUSTOMER SECTOR:	Residential - Low Income
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	All Electric	Non All Electric
Jan	12	3
Feb	9	1
Mar	6	0
Apr	12	0
May	16	0
Jun	14	0
Jul	8	0
Aug	7	0
Sep	7	0
Oct	4	0
Nov	6	0
Dec	7	0
YTD	108	4
PTD	3,837	1,126

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	268,171	90,678,537
Anticipated Peak Demand (kW) Reduction:		
Summer	87	1,012
Winter	60	3,366

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$298,002
Equipment/Vendor:	\$283,366	\$0	\$4,296,538
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$9,553
Total Program Costs	\$283,366	\$0	\$4,604,093
Lost Revenues:	\$41,482	\$1,944	\$998,629
Efficiency Incentive:	\$16,058	\$184	\$185,607
Maximizing Incentive:	\$0	\$0	\$123,617
Total Costs	\$340,906	\$2,128	\$5,911,946

#### **COMMENTS:**

The Targeted Energy Efficiency Program provides a variety of services, including a home energy audit, weatherization and seal-up to targeted low income customers.

The Equipment / Vendor cost categories includes the cost of labor and materials of measures installed, participant energy education costs and vendor administration costs.

PROGRAM:	High Efficiency Heat Pump - Mobile Home
PARTICIPANT DEFINITION:	Number of Units Installed
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants		
Jan	17	
Feb	4	
Mar	22	
Apr	20	
May	16	
Jun	34	
Jul	25	
Aug	21	
Sep	31	
Oct	26	
Nov	14	
Dec	11	
YTD PTD	241 3,370	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	402,068	88,975,126
Anticipated Peak Demand (kW) Reduction:		
Summer	-8	628
Winter	49	4,760

	Retroactive		
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$67,774
Equipment/Vendor:	\$11,950	\$0	\$119,755
Promotional:	\$1,644	\$0	\$4,860
Customer Incentives:	\$96,300	\$0	\$1,413,100
Other Costs:	\$0	\$0	\$1,167
Total Program Costs	\$109,894	\$0	\$1,606,656
Lost Revenues:	\$47,315	\$5,820	\$821,214
Efficiency Incentive:	\$7,823	\$18,331	\$355,268
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$165,032	\$24,151	\$2,783,138

#### **COMMENTS:**

The High Efficiency Heat Pump - Mobile Home program provides incentives to customers, encouraging them to install the highest efficiency equipment practical.

This program will be combined with the Whole House Efficiency program.

PROGRAM:	Mobile Home New Construction
PARTICIPANT DEFINITION:	Number of Units Installed
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	Heat Pump	Air Conditioner
Jan	13	0
Feb	6	0
Mar	16	0
Apr	12	0
Мау	11	0
Jun	16	0
Jul	24	0
Aug	12	0
Sep	5	0
Oct	17	0
Nov	12	0
Dec	15	0
YTD	159	0
PTD	2,894	2

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	249,220	128,929,324
Anticipated Peak Demand (kW) Reduction:		
Summer	88	995
Winter	78	5,311

Costs			
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$50,872
Equipment/Vendor:	\$7,950	\$0	\$167,463
Promotional:	\$791	\$0	\$5,952
Customer Incentives:	\$79,500	\$0	\$1,456,450
Other Costs:	\$250	\$0	\$5,616
Total Program Costs	\$88,491	\$0	\$1,686,353
Lost Revenues:	\$37,563	\$0	\$768,089
Efficiency Incentive:	\$14,082	\$0	\$223,410
Maximizing Incentive:	\$0	\$0	\$2,580
Total Costs	\$140,136	\$0	\$2,680,432

### **COMMENTS:**

The program provides a financial incentive to new mobile home buyers and trade allies to encourage the installation of of high efficiency heat pumps and upgraded insulation packages to new mobile homes.

This programs is being combined with the New Manufactured Homes program.

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## **PROGRAM INFORMATION**

PROGRAM:	Modified Energy Fitness
PARTICIPANT DEFINITION:	Number of Home Audits
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants		
Jan	192	
Feb	125	
Mar	136	
Apr	157	
May	125	
Jun	202	
Jul	219	
Aug	189	
Sep	187	
Oct	220	
Nov	174	
Dec	166	
YTD PTD	2,092 14,685	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	1,819,663	86,629,653
Anticipated Peak Demand (kW) Reduction:		
Summer	345	1,853
Winter	230	5,479

		Retroactive	
Description	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$72,235
Equipment/Vendor:	\$928,538	\$0	\$5,476,934
Promotional:	\$105,107	\$0	\$187,769
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$1,033,644	\$0	\$5,736,937
Lost Revenues:	\$219,163	\$0	\$1,384,800
Efficiency Incentive:	\$32,614	\$0	\$387,254
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$1,285,421	\$0	\$7,508,991

#### **COMMENTS:**

The Modified Energy Fitness program provides energy audits, blower door testing, duct sealing and direct installation of low cost conservation measures to residential customers with electric space heating and electric water heating.

The equipment / vendor cost category includes the cost of labor and materials of measures installed, the cost of promotion by the vendor and vendor administration costs including customer education.

The program is being combined with the new Whole House Efficiency program.

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# **PROGRAM INFORMATION**

PROGRAM:	High Efficiency Heat Pumps
PARTICIPANT DEFINITION:	Number of Units Installed
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	<b>Resistance</b>	Non Resistance
Jan	16	29
Feb	11	21
Mar	28	37
Apr	19	30
Мау	22	42
Jun	15	65
Jul	24	43
Aug	17	33
Sep	21	44
Oct	19	41
Nov	18	39
Dec	13	39
YTD PTD	223 1,374	463 2,792

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	721,667	4,565,384
Anticipated Peak Demand (kW) Reduction:		
Summer	58	145
Winter	130	3,021

Costs			
		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$36,601
Equipment/Vendor:	\$34,350	\$0	\$233,200
Promotional:	\$7,533	\$0	\$15,714
Customer Incentives:	\$281,600	\$0	\$1,644,160
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$323,483	\$0	\$1,929,675
Lost Revenues:	\$77,425	\$0	\$476,343
Efficiency Incentive:	\$24,675	\$0	\$351,883
Maximizing Incentive:	\$0	\$0	\$17,177
Total Costs	\$425,583	\$0	\$2,775,078

#### **COMMENTS:**

This program was implemented to reduce residential electric consumption by replacing older, less efficient electric heating systems with high efficiency heat pumps. Customers are provided an incentive encouraging them to promote the highest efficiency equipment practical.

The program is being combined with the new Whole House Efficiency program.

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## **PROGRAM INFORMATION**

PROGRAM:	Community Outreach Compact Fluorescent Lamp
PARTICIPANT DEFINITION:	Number of Customers
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

v Participants		
Jan	0	
Feb	0	
Mar	768	
Apr	345	
May	953	
Jun	396	
Jul	403	
Aug	680	
Sep	1,398	
Oct	362	
Nov	333	
Dec	0	
YTD	5,638	
PTD	35,269	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	275,844	2,950,957
Anticipated Peak Demand (kW) Reduction:		
Summer	34	1,010
Winter	34	1,157

Costs			
	Retroactive		
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$31,116
Equipment/Vendor:	\$37,111	\$0	\$314,621
Promotional:	\$0	\$0	\$16,703
Administration:	\$3,943	\$0	\$6,588
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$41,054	\$0	\$369,028
Lost Revenues:	\$27,482	\$0	\$274,679
Efficiency Incentive:	\$4,297	\$0	\$121,877
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$72,833	\$0	\$765,584

#### **COMMENTS:**

The Community Outreach Compact Fluorescent Lighting (CFL) program is designed to educate and influence residential customers to purchase and use compact fluorescent lighting in their homes. A package of 4 high efficiency CFLs are distributed to customers at scheduled community outreach events.

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## **PROGRAM INFORMATION**

PROGRAM:	Energy Education For Students
PARTICIPANT DEFINITION:	Number of Students receiving EE kits
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants		
Jan	0	
Feb	0	
Mar	0	
Apr	382	
May	201	
Jun	0	
Jul	0	
Aug	0	
Sep	24	
Oct	593	
Nov	1,062	
Dec	0	
YTD PTD	2,262 13,327	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	165,194	1,048,643
Anticipated Peak Demand (kW) Reduction:		
Summer	18	416
Winter	18	325

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$21,396
Equipment/Vendor:	\$14,799	\$0	\$117,490
Promotional:	\$51	\$0	\$2,770
Education Workshops	\$O	\$0	\$22,142
Administration	\$16,929	\$0	\$33,491
Total Program Costs	\$31,779	\$0	\$197,289
Lost Revenues:	\$12,023	\$0	\$109,229
Efficiency Incentive:	\$3,144	\$0	\$36,488
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$46,946	\$0	\$343,006

#### **COMMENTS:**

The Energy Education for Students program is designed to partner with the National Energy Education Development Project (NEED) to implement an energy education program for 7th grade students at participating middle schools. The students will be provided a package of four 23 watt CFLs to install in their homes. The program will influence residential customers to purchase and use compact fluorescent lighting in their homes.

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# **PROGRAM INFORMATION**

PROGRAM:	Home Performance
PARTICIPANT DEFINITION:	Customer Accounts
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants		New	Cumulative
Jan		0	0
Feb		0	0
Mar		30,000	30,000
Apr		0	30,000
May		0	30,000
Jun		0	30,000
Jul		0	30,000
Aug		0	30,000
Sep		0	30,000
Oct		0	30,000
Nov		0	30,000
Dec		0	30,000
	YTD	30,000	30,000
	PTD	30,000	30,000

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	5,631,350	5,631,350
Anticipated Peak Demand (kW) Reduction:		
Summer	815	815
Winter	815	815

Costs			
		Retroactive	
Description	Year-To-Date	<u>Adjustment</u>	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$332,000	\$0	\$429,000
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$332,000	\$0	\$429,000
Lost Revenues:	\$186,293	\$0	\$186,293
Efficiency Incentive:	\$19,150	\$0	\$19,150
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$537,443	\$0	\$634,443

#### **COMMENTS:**

The Home Performance program provides paper Home Energy Reports and regular email messages to consumers regarding ways the customer can save energy.

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### **PROGRAM INFORMATION**

PROGRAM: PARTICIPANT DEFINITION: CUSTOMER SECTOR: REPORTING PERIOD: Residential Efficient Products Number of Units purchased Residential January 1, 2015 - December 31, 2015

New Part	icipants	S				
	-	-	Standard CFL	Specialty CFLs	Standard LED	Specialty LED
Ja	in		0	1,667	0	0
Fe	b		18,112	0	1,267	89
M	ar		25,628	0	1,152	649
A	or		80,349	0	1,728	867
Ma	ay		47,055	0	2,059	553
Ju	in		36,478	0	1,496	536
Ju	ıl		47,903	0	3,010	667
Au	ıg		6,685	0	4,748	740
Se	ep		75,590	0	3,151	1,055
0	ct		31,823	0	2,004	566
No	DV V		67,061	0	6,740	2,482
De	ec		41,940	0	9,333	4,853
YT			478,624	1,667	36,688	13,057
PT	D		1,317,843	47,465	43,708	13,057
						Heat Pump Wat
		es Washer	<u>Dehumidifiers</u>	<u>Refrigerators</u>	Freezers	<u>Heater</u>
Ja		0	0	0	0	0
Fe		0	0	0	0	0
M		0	0	0	0	0
A		23	14	9	0	0
Ma		17	9	10	2	0
Ju	in	27	25	33	5	1
Ju		0	0	0	0	0
Au	.9	72	28	61	21	2
Se		77	44	79	20	2
0		51	19	49	13	2
No		17	16	28	4	1
De		83	35	96	29	4
YT		367	190	365	94	12
PT	U 3	367	190	365	94	12

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	14,852,013	35,748,986
Anticipated Peak Demand (kW) Reduction:		
Summer	908	4,410
Winter	1,760	6,598

Costs			
Description	<u>Year-To-Date</u>	Retroactive Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$62,212
Equipment/Vendor:	\$505,580	\$0	\$1,506,784
Promotional:	\$26,837	\$0	\$42,051
Customer Incentives:	\$740,371	\$0	\$1,713,164
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$1,272,788	\$0	\$3,324,211
Lost Revenues:	\$824,833	\$0	\$1,422,197
Efficiency Incentive:	\$332,157	\$0	\$955,859
Maximizing Incentive:	\$12,165	\$0	\$15,260
Total Costs	\$2,441,943	\$0	\$5,717,527

#### COMMENTS:

The Residential Efficient Products Program will provide incentives and marketing support through retailers to build market share and usage of ENERGY STAR lighting products. Designed to produce long-term energy savings in the residential sector by increasing the market share of ENERGY STAR CFLs and (or) other ENERGY STAR lighting products.

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## **PROGRAM INFORMATION**

PROGRAM:	Appliance Recycling
PARTICIPANT DEFINITION:	Number of Units Recycled
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Recycled Units		<b>Refrigerator</b>	Freezer
Jan		0	0
Feb		0	0
Mar		0	0
Apr		18	9
May		43	9
Jun		51	6
Jul		35	7
Aug		64	19
Sep		80	21
Oct		100	38
Nov		39	8
Dec		0	0
	YTD	430	117
	PTD	430	117

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	432,267	432,267
Anticipated Peak Demand (kW) Reduction:		
Summer	38	38
Winter	38	38

Costs			
		Retroactive	
Description	<u>Year-To-Date</u>	<u>Adjustment</u>	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$41,323	\$0	\$41,323
Promotional:	\$14,609	\$0	\$14,609
Customer Incentives:	\$31,420	\$0	\$31,420
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$87,352	\$0	\$87,352
Lost Revenues:	\$8,024	\$0	\$8,024
Efficiency Incentive:	\$4,042	\$0	\$4,042
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$99,418	\$0	\$99,418

### **COMMENTS:**

The Appliance Recycling program provides incentives to customer who recycle a working second refrigerator or freezer that is in the home. The components of the unit are recycled in an environmentally friendly manner.

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## **PROGRAM INFORMATION**

PROGRAM:	New Manufactured Homes
PARTICIPANT DEFINITION:	Homes
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

Manufactured Homes:		Energy Efficient	Energy Star
Jan		0	0
Feb		0	0
Mar		0	0
Apr		0	0
Мау		0	0
Jun		0	0
Jul		0	0
Aug		0	0
Sep		0	0
Oct		0	0
Nov		0	0
Dec		0	0
	YTD	0	0
	PTD	0	0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$0	\$0	\$0
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$0
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0

#### **COMMENTS:**

The New Manufactured Homes program provides incentives to customers that purchase an energy efficient manufactured home. Two iters of incentives are offered to residential customers.

- 1. Energy Efficient Manufactured Home
- 2. ENERGY STAR manufactured homes

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### **PROGRAM INFORMATION**

PROGRAM:	Whole House Efficiency
PARTICIPANT DEFINITION:	Participants
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

Audits & Rebates:	Single Family	Multi-Family	Weatherization	HVAC
Jan	0	0	0	0
Feb	0	0	0	0
Mar	0	0	0	0
Apr	0	0	0	0
Мау	0	0	0	0
Jun	0	0	0	0
Jul	0	0	0	0
Aug	0	0	0	0
Sep	0	0	0	0
Oct	0	0	0	0
Nov	0	0	0	0
Dec	0	0	0	0
YTD	0	0	0	0
PTD	0	0	0	0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

Costs			
	<b>. .</b>	Retroactive	
Description	Year-To-Date	<u>Adjustment</u>	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$0	\$0	\$0
Promotional:	<b>\$</b> 0	<b>\$</b> 0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$0
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0

#### **COMMENTS:**

The program encourages whole-house improvements to existing homes by promoting home energy audits and comprehensive retrofit services. Single family and multi-family residential customer that own or rent a residence and have an electric central cooling or heat pump system are eligible.

The program delivers three options:

- 1. Home Energy Audit
- 2. Weatherization Measures
- 3. HVAC equipment

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## **PROGRAM INFORMATION**

PROGRAM:	Residential HVAC Diagnostic and Tune-up - Inactive
PARTICIPANT DEFINITION:	Number of Units receiving service
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	Heat Pump	Air Conditioner
Jan		
Feb		
Mar		
Apr		
Мау		
Jun		
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD	0	0
PTD	1,910	454

Impacts		
	<u>Year-To-Date</u>	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	595,144
Anticipated Peak Demand (kW) Reduction:		
Summer	0	254
Winter	0	404

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$30,594
Equipment/Vendor:	\$0	\$0	\$108,975
Promotional:	\$0	\$0	\$15,099
Customer Incentives:	\$0	\$0	\$110,640
Administration:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$50
Total Program Costs	\$0	\$0	\$265,358
Lost Revenues:	\$5,493	\$1,944	\$39,874
Efficiency Incentive:	\$0	\$184	\$8,930
Maximizing Incentive:	\$0	\$0	\$8,115
Total Costs	\$5,493	\$2,128	\$322,277

#### **COMMENTS:**

The Residential HVAC Diagnostic and Tune-up Program provides incentives to customers for a variety of HVAC services including over and under refrigerant charge and other diagnostic performance checks on residential unitary central air conditioning and heat pump units. Central Air Conditioning units were discontinued 12/31/12.

A 2014 portfolio evaluation recommended program termination after the 2014 program year.

PROGRAM:	Pilot Residential Load Management - Inactive
PARTICIPANT DEFINITION:	Number of Switches Installed
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	A/C Switches	Water Heater SW
Jan		
Feb		
Mar		
Apr		
Мау		
Jun		
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD	0	0
PTD	65	52

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

Description	Year-To-Date	Retroactive Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$31,060
Equipment/Vendor:	\$0	\$0	\$293,463
Promotional:	\$0	\$0	\$12,192
Customer Incentives:	\$0	\$0	\$1,516
Other Costs:	\$0	\$0	\$696
Total Program Costs	\$0	\$0	\$338,927
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$0	\$0	\$338,927

#### **COMMENTS:**

The Pilot Residential Load Management Program will determine whether peak demand can be effectively reduced through the installation of load control devices on central air conditioners, heat pumps, and/or electric water heaters. The program was completed December 31, 2012.

PROGRAM:	Energy Fitness - Inactive
PARTICIPANT DEFINITION:	Number of Households
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants		
Jan	0	
Feb	0	
Mar	0	
Apr	0	
May	0	
Jun	0	
Jul	0	
Aug	0	
Sep	0	
Oct	0	
Nov	0	
Dec	0	
YTD	0	
PTD	2,812	

Impacts		
	<u>Year-To-Date</u>	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	55,360,221
Anticipated Peak Demand (kW) Reduction:		
Summer	0	441
Winter	0	1,932

Costs			
		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	0.00	0.00	18,189.00
Equipment/Vendor:	0.00	0.00	665,964.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	0.00
Other Costs:	0.00	0.00	960.00
Total Program Costs	0.00	0.00	685,113.00
Lost Revenues:	0.00	(19,322.00)	363,029.00
Efficiency Incentive:	0.00	(46,349.00)	63,482.00
Maximizing Incentive:	0.00	0.00	0.00
Total Costs	0.00	(65,671.00)	1,111,624.00

### **COMMENTS:**

This program was discontinued May 14, 1999.

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## **PROGRAM INFORMATION**

PROGRAM:	Compact Fluorescent Bulb - Inactive
PARTICIPANT DEFINITION:	Number of Bulbs Installed
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants		
Jan	0	
Feb	0	
Mar	0	
Apr	0	
Мау	0	
Jun	0	
Jul	0	
Aug	0	
Sep	0	
Oct	0	
Nov	0	
Dec	0	
YTD PTD	0 269	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	280,416
Anticipated Peak Demand (kW) Reduction:		
Summer	0	3
Winter	0	3

Costs			
		Retroactive	
Description	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	0.00	0.00	60.00
Equipment/Vendor:	0.00	0.00	15,021.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	0.00
Other Costs:	0.00	0.00	0.00
Total Program Costs	0.00	0.00	15,081.00
Lost Revenues:	0.00	25.00	1,605.00
Efficiency Incentive:	0.00	8.00	433.00
Maximizing Incentive:	0.00	0.00	0.00
Total Costs	0.00	33.00	17,119.00

### **COMMENTS:**

This program was discontinued December 31, 1996

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## **PROGRAM INFORMATION**

PROGRAM:	High Efficiency Heat Pumps Retro - Inactive
PARTICIPANT DEFINITION:	Number of Units Installed
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	<b>Resistance</b>	Non Resistance
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
Мау	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Oct	0	0
Nov	0	0
Dec	0	0
YTD	0	0
PTD	1,367	929

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	71,026,985
Anticipated Peak Demand (kW) Reduction:		
Summer	0	851
Winter	0	2,995

Costs			
		Retroactive	
Description	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	0.00	0.00	12,885.00
Equipment/Vendor:	0.00	0.00	129,767.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	70,500.00
Other Costs:	0.00	0.00	1,160.00
Total Program Costs	0.00	0.00	214,312.00
Lost Revenues:	0.00	(269.00)	368,960.00
Efficiency Incentive:	0.00	(2,196.00)	48,017.00
Maximizing Incentive:	0.00	0.00	5.00
Total Costs	0.00	(2,465.00)	631,294.00

### COMMENTS:

This program was discontinued December 31, 2001.

PROGRAM:	General Commercial Administrative
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

Costs			
		Retroactive	
Description	<u>Year-To-Date</u>	Adjustment	Program-To-Date
Administrative	\$215,760	\$0	\$232,821
Promotion	\$2,171	\$0	\$2,171
Other	\$0	\$0	\$0
Total Costs	\$217,931	\$0	\$234,992

### COMMENTS:

Administrative expense represents Market Potential Study and program design services which began Fall 2014. The category will continue to reflect portfolio expenses related to Evaluation, Measurement and Verification work.

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## **PROGRAM INFORMATION**

PROGRAM:	Commercial High Efficiency HP/AC
PARTICIPANT DEFINITION:	Number of Units Installed
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	Heat Pump	Air Conditioner
Jan	1	0
Feb	0	0
Mar	3	0
Apr	1	0
Мау	1	0
Jun	1	0
Jul	5	0
Aug	2	0
Sep	4	0
Oct	0	0
Nov	1	0
Dec	1	0
YTD	20	0
PTD	80	4

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	15,140	54,646
Anticipated Peak Demand (kW) Reduction:		
Summer	12	25
Winter	6	34

Costs			
Description	Year-To-Date	Retroactive Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$28,806
Equipment/Vendor:	\$1,000	\$0	\$4,200
Promotional:	\$1,026	\$0	\$25,745
Customer Incentives:	\$7,800	\$0	\$31,450
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$9,826	\$0	\$90,201
Lost Revenues:	\$1,389	\$0	\$3,623
Efficiency Incentive:	\$0	\$0	\$1,224
Maximizing Incentive:	\$492	\$0	\$3,335
Total Costs	\$11,707	\$0	\$98,383

#### **COMMENTS:**

The Commercial High Efficiency Heat Pump/Air Conditioner program offers financial incentive to small commercial customers (< 100 kW demand) who upgrade to a new qualifying central air conditioner or heat pump with a Consortium for Energy Efficiency (CEE) rating. Applicable for 5 ton units or less.

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## PROGRAM INFORMATION

PROGRAM:	Commercial Incentive
PARTICIPANT DEFINITION:	Number of Participants Projects Installed
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	Projects Installed	
Jan	1	
Feb	14	
Mar	22	
Apr	8	
May	8	
Jun	15	
Jul	13	
Aug	10	
Sep	15	
Oct	23	
Nov	14	
Dec	48	
YTD	191 702	
PTD	793	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	3,916,678	9,768,967
Anticipated Peak Demand (kW) Reduction:		
Summer	651	3,007
Winter	630	2,966

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$142,391
Equipment/Vendor:	\$616,913	\$0	\$2,222,406
Promotional:	\$14,196	\$0	\$77,393
Customer Incentives:	\$772,281	\$0	\$2,285,384
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$1,403,390	\$0	\$4,727,574
Lost Revenues:	\$536,676	\$0	\$826,477
Efficiency Incentive:	\$141,258	\$0	\$315,014
Maximizing Incentive:	\$0	\$0	\$102,031
Total Costs	\$2,081,324	\$0	\$5,971,096

#### **COMMENTS:**

The Commercial Incentive program offers energy savings for all commercial business customers through promotion of high efficiency electric lighting, HVAC, pumps, and motors. Primary objectives include; increasing the market share and installation rate of high efficiency technologies, and improving the operating efficiencies of existing long life equipment for commercial customers.

The Commercial Incentive Prescriptive Custom replaces this program in 2016.

PROGRAM:	School Energy Manager Program
PARTICIPANT DEFINITION:	School District Participation
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

Participating Schools	<b>Districts</b>	
Jan	6	
Feb	6	
Mar	6	
Apr	6	
Мау	6	
Jun	6	
Jul	15	
Aug	15	
Sep	15	
Oct	15	
Nov	15	
Dec	15	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	319,430	434,541
Anticipated Peak Demand (kW) Reduction:		
Summer	116	116
Winter	116	355

Costs			
		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$200,000	\$0	\$200,000
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$200,000	\$0	\$200,000
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$337	\$0	\$337
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$200,337	\$0	\$200,337

#### COMMENTS:

The first phase of the School Energy Manager program was not expensed to DSM. The first phase consisted of a total of eight potential school districts that could participate with the program. The following five school districts participated for 2014:By end of year program; Carter, Johnson, Martin, Lawrence and, Paintsville.

The second phase of the program expands to include a potential of 23 school districts beginning July 2015. The DSM program budget for the 2nd phase of the program will be \$200,000. Actual school district start date and participation is dependent on the school district contractual agreement with Kentucky School Board Association (KSBA).

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## PROGRAM INFORMATION

PROGRAM:	Express Install
PARTICIPANT DEFINITION:	Completed Customer Project
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

Participation:	Completed Projects
Jan	
Feb	
Mar	
Apr	
Мау	
Jun	
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	
YTD	0
PTD	0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$0	\$0	\$0
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$0
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0

#### **COMMENTS:**

The program offers small commercial customers an energy assessment that includes information on potential energy savings and anticipated payback. Incentives are available for up to 70% of the equipment and installation cost. The program strategy includes three components:

- 1. Walk-Through Audit
- 2. Direct Installation of Measures
- 3. Customer Education

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## **PROGRAM INFORMATION**

PROGRAM:	New Construction
PARTICIPANT DEFINITION:	Completed Customer Project
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

Participation:	Completed Projects
Jan	
Feb	
Mar	
Apr	
Мау	
Jun	
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	
YTD PTD	0 0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$0	\$0	\$0
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$0
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0

#### **COMMENTS:**

The program encourages decision-makers in new construction and major reovation projects to incorporate greater energy efficiency into their building design and construction practices. Participation includes two components:

- 1. Whole Building Approach
- 2. Systems Approach

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## PROGRAM INFORMATION

PROGRAM:	Retro-Commissioning
PARTICIPANT DEFINITION:	Customer Project
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

Participation:	Completed Projects
Jan	
Feb	
Mar	
Apr	
Мау	
Jun	
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	
YTD PTD	0 0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$0	\$0	\$0
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$0
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0

#### **COMMENTS:**

The program provides a study to optimize customer's building automation systems. Eligible customers receive one of the following fully funded studies based upon the building size:

1. RCx Lite: Buildings with 50,000 and 150,000 square feet and 150 to 500 kW peak demand.

2. RCx Standard: Buildings larger than 150,000 square feet and with greater than 500 kW peak demand.

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# **PROGRAM INFORMATION**

PROGRAM:	Commercial HVAC Diagnostic and Tune-up - Inactive
PARTICIPANT DEFINITION:	Number of Units receiving service
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	Heat Pump	Air Conditioner
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
Мау	0	0
Jun	0	0
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD PTD	0 242	0 84

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	141,188
Anticipated Peak Demand (kW) Reduction:		
Summer	0	74
Winter	0	101

Costs			
Description	Voor To Data	Retroactive	Brogrom To Data
Description	<u>Year-To-Date</u>	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$26,347
Equipment/Vendor:	\$0	\$0	\$14,525
Promotional:	\$0	\$0	\$13,177
Customer Incentives:	\$0	\$0	\$21,450
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$75,499
Lost Revenues:	\$1,142	\$0	\$8,930
Efficiency Incentive:	\$0	\$0	\$3,496
Maximizing Incentive:	\$0	\$0	\$2,415
Total Costs	\$1,142	\$0	\$90,340

#### **COMMENTS:**

The Commercial HVAC Diagnostic and Tune-up Program provides a variety of HVAC services, including diagnostic performance checks on commercial unitary central air conditioning and heat pump units.

The Equipment / Vendor cost include the cost of incentives for participating HVAC dealers promotion of the program. Central Air Conditioning units were discontinued 12/31/12.

The 2014 portfolio evaluation recommended program termination after the 2014 program year.

PROGRAM:	Pilot Commercial Load Management - Inactive
PARTICIPANT DEFINITION:	Number of Switches Installed
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	Heat Pump	Air Conditioner
Jan		
Feb		
Mar		
Apr		
Мау		
Jun		
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD	0	0
PTD	0	0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

Costs			
		Retroactive	
<b>Description</b>	<u>Year-To-Date</u>	<u>Adjustment</u>	Program-To-Date
Total Evaluation	\$0	\$0	\$17,939
Equipment/Vendor:	\$0	\$0	\$30,000
Promotional:	\$0	\$0	\$240
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$48,179
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$0	\$0	\$48,179

#### **COMMENTS:**

The Pilot Commercial Load Management Program will determine whether peak demand can be effectively reduced through the installation of load control devices on central air conditioners, heat pumps, and/or electric water heaters. The pilot program was completed December 31, 2012.

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## **PROGRAM INFORMATION**

PROGRAM:	Smart Audit - Commercial - Inactive
PARTICIPANT DEFINITION:	Number of Audits
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	<u>Class I</u>	Class II
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
Мау	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Oct	0	0
Nov	0	0
Dec	0	0
YTD PTD	0 1,952	0 194

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	n/a	n/a
Anticipated Peak Demand (kW) Reduction:		
Summer	n/a	n/a
Winter	n/a	n/a

Costs			
		Retroactive	
Description	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	0.00	0.00	30,661.00
Equipment/Vendor:	0.00	0.00	1,268,176.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	0.00
Other Costs:	0.00	0.00	(8,156.00)
Total Program Costs	0.00	0.00	1,290,681.00
Lost Revenues:	0.00	0.00	0.00
Efficiency Incentive:	0.00	0.00	0.00
Maximizing Incentive:	0.00	0.00	64,533.00
Total Costs	0.00	0.00	1,355,214.00

### **COMMENTS:**

This program was discontinued December 31, 2002.

PROGRAM:	Smart Incentive - Commercial - Inactive
PARTICIPANT DEFINITION:	Number of Incentives
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	Existing Building	New Building
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
Мау	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Oct	0	0
Nov	0	0
Dec	0	0
YTD PTD	0 182	0 69

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	125,682,085
Anticipated Peak Demand (kW) Reduction:		
Summer	0	1,519
Winter	0	2,640

Costs			
		Retroactive	
<b>Description</b>	<u>Year-To-Date</u>	Adjustment	Program-To-Date
Total Evaluation	0.00	0.00	144,039.00
Equipment/Vendor:	0.00	0.00	21,504.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	399,592.00
Other Costs:	0.00	0.00	691.00
Total Program Costs	0.00	0.00	565,826.00
Lost Revenues:	0.00	442.00	891,458.00
Efficiency Incentive:	0.00	1,078.00	88,039.00
Maximizing Incentive:	0.00	0.00	281.00
Total Costs	0.00	1,520.00	1,545,604.00

### **COMMENTS:**

This program was discontinued December 31, 2002.

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## **PROGRAM INFORMATION**

PROGRAM:	Smart Audit - Industrial - Inactive
PARTICIPANT DEFINITION:	Number of Audits
CUSTOMER SECTOR:	Industrial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	<u>Class I</u>	Class II
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
Мау	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Oct	0	0
Nov	0	0
Dec	0	0
YTD	0	0
PTD	60	4

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	n/a	n/a
Anticipated Peak Demand (kW) Reduction:		
Summer	n/a	n/a
Winter	n/a	n/a

Costs			
		Retroactive	
Description	Year-To-Date	<b>Adjustment</b>	Program-To-Date
Total Evaluation	0.00	0.00	5,741.00
Equipment/Vendor:	0.00	0.00	37,786.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	0.00
Other Costs:	0.00	0.00	161.00
Total Program Costs	0.00	0.00	43,688.00
Lost Revenues:	0.00	0.00	0.00
Efficiency Incentive:	0.00	0.00	0.00
Maximizing Incentive:	0.00	0.00	2,186.00
Total Costs	0.00	0.00	45,874.00

### **COMMENTS:**

This program was discontinued December 31, 1998.

PROGRAM:	Smart Incentive - Industrial - Inactive
PARTICIPANT DEFINITION:	Number of Incentives
CUSTOMER SECTOR:	Industrial
REPORTING PERIOD:	January 1, 2015 - December 31, 2015

New Participants	General	Compressed Air
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
May	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Oct	0	0
Nov	0	0
Dec	0	0
YTD	0	0
PTD	1	0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	170,525
Anticipated Peak Demand (kW) Reduction:		
Summer	0	6
Winter	0	6

Costs			
		Retroactive	
Description	<u>Year-To-Date</u>	Adjustment	Program-To-Date
Total Evaluation	0.00	0.00	28,385.00
Equipment/Vendor:	0.00	0.00	3,288.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	441.00
Other Costs:	0.00	0.00	0.00
Total Program Costs	0.00	0.00	32,114.00
Lost Revenues:	0.00	0.00	0.00
Efficiency Incentive:	0.00	0.00	383.00
Maximizing Incentive:	0.00	0.00	655.00
Total Costs	0.00	0.00	33,152.00

### **COMMENTS:**

This program was discontinued December 31, 1998.

### KENTUCKY POWER COMPANY Demand Side Management Status Report

As of June 30, 2016

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3	Summary Energy/Demand Information (All Programs)

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6	Community Outreach Compact Fluorescent Lamp (CFL)
7	Energy Education for Students
8	Home Performance
9	Residential Efficient Products
10	Appliance Recycling
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#### **DEFINITIONS**

1) YTD Costs - Year-to-Date costs recorded through June 30, 2016.

2) YTD Impacts - Estimated in place load impacts for Year-to-Date participants.

3) PTD Costs - Costs recorded from the inception of the program through June 30, 2016

4) PTD Impacts - Estimated in place load impacts for Program-to-Date participants.

#### **COMMENTS**

Our calculations are based on actual participants and costs as of June 30, 2016.

The estimated actual in-place energy (kWh) savings represents the annual energy savings for customers beginning program participation in the reported period. It is computed by applying the average customer annual net energy savings, including 8.6% T&D losses. The savings are included with the latest program evaluation report or the initially filed program estimate where an evaluation report has not been completed. The estimated actual in place energy (kWH) savings are calculated in accordance with the Sunset Provision contained in the joint application, filed September 27, 1995.

The estimated anticipated peak demand (kW) reduction is a product of the number of net participating customers or measure quantity (excluding free riders) and projected winter/summer demand reductions filed for each program. The anticipated peak demand (kW) reductions include a 12.4% T&D loss savings.

The calculation of YTD and PTD estimated in place energy (kWh) savings and anticipated peak demand (kW) reductions contained in this status report reflect, wherever applicable, the program evaluation results of each individual program as described in the August 16, 1999, June 30, 2002, June 30, 2005, June 30, 2008, June 30, 2010, August 15, 2011, August 15, 2012, and August 15, 2014, DSM collaborative report, and August 10, 2015, Demand Side Management Program Plan.

The individual DSM lost revenue, efficiency incentive and maximizing incentives as of June 30, 1997 are calculated based on the initial values from Exhibit E in the joint application, filed September 27, 1995. A retroactive adjustment of the initial values of the efficiency incentives and net lost revenue KWH impacts was used for each program for the first eighteen months (1/1/96 to 6/30/97). The lost revenue, efficiency incentive and maximizing incentive for the period 1/1/2016 to 6/30/2016 are calculated using the revised values contained in Schedule C of this status report.

The program lost revenue is the product of the number of participating customers, the average net energy savings (kWh) per customer and the net lost revenue (\$/kWh). The number of participating customers is equal to 1/2 of the new participants for the current month, plus the cumulative participants from the previous months. The program-to-date lost revenues are calculated in accordance with the Sunset Provision contained in the joint application, filed September 27, 1995.

The efficiency incentive is the product of the number of participants for the month and the efficiency rate (\$/participant). The maximizing incentive is calculated as 5% of actual program cost for the month.

### KENTUCKY POWER COMPANY SUMMARY INFORMATION (ALL PROGRAMS)

As of June 30, 2016

DESCRIPTION	YTD	PTD
Total Revenue Collected	\$2,556,445	\$38,828,914
Total Program Costs	\$2,826,730	\$31,806,499
Total Lost Revenues	\$1,827,254	\$10,780,707
Total Efficiency / Maximizing Incentive	\$250,902	\$3,763,286
HEAP - Kentucky Power's Information Technology Implementation Costs (Case No 2006 - 00373, Dated December 14, 2006)	\$0	\$58,968
HEAP - KACA's Information Technology Implementation Costs	\$0	\$15,700
Total DSM Costs As of June 30, 2016	\$4,904,886	\$46,425,160

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### KENTUCKY POWER COMPANY SUMMARY INFORMATION (ALL PROGRAMS)

As of June 30, 2016

DESCRIPTION	YTD		PTD	
Actual In-Place Energy Savings:	13,678,209	kWh	664,233,204	kWh
w/ T&D Line Losses:	14,854,535	kWh	723,959,480	kWh
Total kW Reductions:				
Winter w/ T&D Line Losses: Summer w/ T&D Line Losses:	2,113 2,375 2,024 2,275	kW kW kW kW	40,573 44,681 18,040 19,893	kW kW kW kW

<b>PROGRAM INFORMATION</b>	
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PROGRAM:	General Residential Administrative
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

Costs			
		Retroactive	
Description	<u>Year-To-Date</u>	Adjustment	Program-To-Date
Administrative	\$968	\$0	\$182,597
Promotion	\$1,623	\$0	\$1,623
Other			
Total Costs	\$2,591	\$0	\$184,220

### COMMENTS:

Administrative expense represents EE Market Potential Assessment and DSM Program Plan Program Plan services which began Fall 2014. The category will continue to reflect portfolio expenses related to Evaluation, Measurement and Verification work.

The expense forecast for 2016 is \$79,320. The expense forecast for 2017 is \$75,200.

### **PROGRAM INFORMATION**

PROGRAM:	Targeted Energy Efficiency
PARTICIPANT DEFINITION:	Number of Households
CUSTOMER SECTOR:	Residential - Low Income
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	All Electric	Non All Electric
Jan	5	0
Feb	3	0
Mar	3	0
Apr	6	1
Мау	6	0
Jun	12	0
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD	35	1
PTD	3,872	1,127

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	99,069	90,777,606
Anticipated Peak Demand (kW) Reduction:		
Summer	22	1,034
Winter	2	3,368

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$298,002
Equipment/Vendor:	\$82,770	\$0	\$4,379,308
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$9,553
Total Program Costs	\$82,770	\$0	\$4,686,863
Lost Revenues:	\$24,056	\$1,944	\$1,022,685
Efficiency Incentive:	\$679	\$184	\$186,286
Maximizing Incentive:	\$0	\$0	\$123,617
Total Costs	\$107,505	\$2,128	\$6,019,451

#### **COMMENTS:**

The Targeted Energy Efficiency Program provides a variety of services, including a home energy audit, weatherization and seal-up to targeted low income customers.

The Equipment / Vendor cost categories includes the cost of labor and materials of measures installed, participant energy education costs and vendor administration costs.

The participant and expense forecast for 2016 is 129 homes and \$298,654. The participant and expense forecast for 2017 is 139 homes and \$308,520, respectively.

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# **PROGRAM INFORMATION**

PROGRAM:	Community Outreach
PARTICIPANT DEFINITION:	Number of Customers
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

Dec YTD PTD	1,285 36,554	
Nov		
Oct		
Sep		
Aug		
Jul		
Jun	0	
Мау	920	
Apr	0	
Mar	365	
Feb	0	
Jan	0	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	27,910	2,978,867
Anticipated Peak Demand (kW) Reduction:		
Summer	3	1,013
Winter	3	1,160

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$31,116
Equipment/Vendor:	\$9,185	\$0	\$323,806
Promotional:	\$0	\$0	\$16,703
Administration:	\$2,480	\$0	\$9,068
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$11,665	\$0	\$380,693
Lost Revenues:	\$8,586	\$0	\$283,265
Efficiency Incentive:	\$0	\$0	\$121,877
Maximizing Incentive:	\$583	\$0	\$583
Total Costs	\$20,834	\$0	\$786,418

#### **COMMENTS:**

The Community Outreach program is designed to educate and influence residential customers to purchase and use energy conservation measures in their homes. A package of 4 high efficiency CFLs are distributed to customers at scheduled community outreach events. An energy efficiency kit consisting of 2 light emitting diodes (LED) and 1 low-flow faucet aerator will be introduced in the fall of 2016.

The participant and expense forecast for 2016 is 4,000 customers and \$32,616, respectively. The participant and expense forecast for 2017 is 4,000 customers and \$51,887, respectively.

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### KENTUCKY POWER COMPANY

PROGRAM INFORMATION				
PROGRAM:	Energy Education For Students			
PARTICIPANT DEFINITION:	Number of Students receiving EE kits			
CUSTOMER SECTOR:	Residential			
REPORTING PERIOD:	January 1, 2016 - June 30, 2016			

New Participants	
Jan	0
Feb	0
Mar	0
Apr	0
May	250
Jun	0
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	
YTD PTD	250 13,577

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	4,073	1,052,716
Anticipated Peak Demand (kW) Reduction:		
Summer	1	417
Winter	1	326

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$21,396
Equipment/Vendor:	\$0	\$0	\$117,490
Promotional:	\$0	\$0	\$2,770
Education Workshops	\$0	\$0	\$22,142
Administration	\$0	\$0	\$33,491
Total Program Costs	\$0	\$0	\$197,289
Lost Revenues:	\$3,129	\$0	\$112,358
Efficiency Incentive:	\$0	\$0	\$36,488
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$3,129	\$0	\$346,135

#### **COMMENTS:**

The Energy Education for Students program is designed to partner with the National Energy Education Development Project (NEED) to implement an energy education program for middle school students at participating schools. The students will be provided a package of four 13 watt CFLs to install in their homes. The program will influence residential customers to purchase and use energy conservation measures in their homes. An energy efficiency kit consiting of 2 light emitting diodes (LED) and 1 low-flow faucet aerator will be introduced in the fall of 2016.

The participant and expense forecast for 2016 is 2,200 students and \$40,268, respectively. The participant and expense forecast for 2017 is 2,200 students and \$42,765, respectively.

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# **PROGRAM INFORMATION**

PROGRAM:	Home Performance
PARTICIPANT DEFINITION:	Customer Accounts
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants		New	<u>Cumulative</u>
Jan		30,000	60,000
Feb		0	60,000
Mar		0	60,000
Apr		0	60,000
Мау		0	60,000
Jun		0	60,000
Jul		0	60,000
Aug		0	60,000
Sep		0	60,000
Oct		0	60,000
Nov		0	60,000
Dec		0	60,000
	YTD PTD	30,000 60,000	60,000 60,000

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	5,266,752	10,898,102
Anticipated Peak Demand (kW) Reduction:		
Summer	818	1,633
Winter	818	1,633

Costs			
		Retroactive	
<b>Description</b>	<u>Year-To-Date</u>	<b>Adjustment</b>	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$494,500	\$0	\$923,500
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$494,500	\$0	\$923,500
Lost Revenues:	\$279,450	\$0	\$465,743
Efficiency Incentive:	\$34,200	\$0	\$53,350
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$808,150	\$0	\$1,442,593

#### **COMMENTS:**

The Home Performance program provides paper Home Energy Reports and regular email messages to consumers regarding ways the customer can save energy.

The participant and expense forecast for 2016 is 60,000 and \$602,940, respectively. The participant and expense forecast for 2017 is 65,000 and \$618,800, respectively.

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#### **PROGRAM INFORMATION**

PROGRAM: PARTICIPANT DEFINITION: CUSTOMER SECTOR: REPORTING PERIOD: Residential Efficient Products Number of Units purchased Residential

January 1, 2016 - June 30, 2016

<b>New Partici</b>	pants	Standard CFL	Standard LED	Specialty LED	Clothes Washer
Jan	•	2,051	889	388	38
Feb		73,425	10,845	5,256	49
Mar		78,828	7,334	3,029	44
Apr		32,523	2,595	479	41
May		21,154	3,090	1,343	49
Jun		20,456	2,174	6	25
Jul		,			
Aug					
Sep					
Oct					
Nov					
Dec					
YTD		228,437	26,927	10,501	246
PTD		1,546,280	70,635	23,558	613
					Heat Pump Water
	Room Air Purifiers	<b>Dehumidifiers</b>	Refrigerators	Freezers	Heater
Jan	0	10	32	10	1
Feb	2	12	42	7	2
Mar	6	19	3	1	2
Apr	4	10	0	0	2
May	6	18	1	0	0
Jun	2	9	0	0	0
Jul					
Aug					
Sep					
Oct					
Nov					
Dec					
	20	78	78	18	7
YTD PTD	20	268	443	112	19

impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	5,223,878	40,972,864
Anticipated Peak Demand (kW) Reduction:		
Summer	616	5,026
Winter	616	7,214

		Retroactive			
Description	Year-To-Date	Adjustment	Program-To-Date		
Total Evaluation	\$0	\$0	\$62,212		
Equipment/Vendor:	\$225,558	\$0	\$1,732,342		
Promotional:	\$1,248	\$0	\$43,299		
Customer Incentives:	\$424,564	\$0	\$2,137,728		
Other Costs:	\$0	\$0	\$0		
Total Program Costs	\$651,370	\$0	\$3,975,581		
Lost Revenues:	\$683,567	\$0	\$2,105,764		
Efficiency Incentive:	\$98,497	\$0	\$1,054,356		
Maximizing Incentive:	\$425	\$0	\$15,685		
Total Costs	\$1,433,859	\$0	\$7,151,386		

#### COMMENTS:

The Residential Efficient Products Program will provide incentives and marketing support through retailers to build market share and usage of ENERGY STAR lighting products. Designed to produce long-term energy savings in the residential sector by increasing the market share of ENERGY STAR CFLs and (or) other ENERGY STAR lighting products.

The participant forecast for 2016 is 235,112 ENERGY STAR CFLs, 96,927 ENERGY STAR LEDs, 20,506 Specialty ENERGY STAR LEDs, 644 ENERGY STAR rated Clothes Washers, 176 ENERGY STAR rated Dehumifiers, 46 ENERGY STAR rated Air Purifiers, 78 ENERGY STAR rated Refrigerators, 18 ENERGY STAR rated Freezers and 7 ENERGY STAR rated Heat Pump Water Heaters. The expense forecast for 2016 is \$1,149,207.

The participant forecast for 2017 is 250,000 ENERGY STAR LEDs and 15,000 Speciality ENERGY STAR LEDs, 50 ENERGY STAR Air Purifiers, 400 ENERGY STAR rated Clothes Washers, 125 ENERGY STAR rated Dehumifiers. The expense forecast for 2017 is \$1,222,313

### KPSC Case No. 2017-00097 Sierra Club's First Set of Data Requests **KENTUCKY POWER COMPANY**

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# **PROGRAM INFORMATION**

PROGRAM:	Appliance Recycling
PARTICIPANT DEFINITION:	Number of Units Recycled
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Recycled Units		Refrigerator	<u>Freezer</u>
Jan		0	0
Feb		0	0
Mar		0	0
Apr		1	0
Мау		19	7
Jun		35	7
Jul		0	0
Aug		0	0
Sep		0	0
Oct		0	0
Nov		0	0
Dec		0	0
	YTD PTD	55 485	14 131

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	41,963	474,230
Anticipated Peak Demand (kW) Reduction:		
Summer	5	43
Winter	5	43

Costs			
<b>Description</b>	Year-To-Date	<b>Adjustment</b>	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$139	\$0	\$41,462
Promotional:	\$0	\$0	\$14,609
Customer Incentives:	\$1,460	\$0	\$32,880
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$1,599	\$0	\$88,951
Lost Revenues:	\$9,464	\$0	\$17,488
Efficiency Incentive:	\$77	\$0	\$4,119
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$11,140	\$0	\$110,558

#### **COMMENTS:**

The Appliance Recycling program provides incentives to customer who recycle a working second refrigerator or freezer that is in the home. The components of the unit are recycled in an environmentally friendly manner.

The participant and expense forecast for 2016 is 575 and \$101,046, respectively. The participant and expense forecast for 2017 is 595 and \$102,317, respectively.

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# **PROGRAM INFORMATION**

PROGRAM:	New Manufactured Homes
PARTICIPANT DEFINITION:	Homes
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

Manufactured Homes:		Energy Efficient	Energy Star
Jan		10	0
Feb		8	0
Mar		13	0
Apr		3	0
Мау		15	0
Jun		13	0
Jul		0	0
Aug		0	0
Sep		0	0
Oct		0	0
Nov		0	0
Dec		0	0
	YTD	62	0
	PTD	62	0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	135,662	135,662
Anticipated Peak Demand (kW) Reduction:		
Summer	56	56
Winter	39	39

Costs		<u> </u>	
		Retroactive	
<b>Description</b>	Year-To-Date	<u>Adjustment</u>	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$8,533	\$0	\$8,533
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$30,500	\$0	\$30,500
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$39,033	\$0	\$39,033
Lost Revenues:	\$1,764	\$0	\$1,764
Efficiency Incentive:	\$6,479	\$0	\$6,479
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$47,276	\$0	\$47,276

#### **COMMENTS:**

The New Manufactured Homes program provides incentives to customers that purchase an energy efficient manufactured home. Two iters of incentives are offered to residential customers.

- 1. Energy Efficient Manufactured Home
- 2. ENERGY STAR manufactured homes

The participant and expense forecast for 2016 is 155 homes and \$161,248, respectively. The participant and expense forecast  $for_e^{2}217$  is 164 homes and \$244,530, respectively.

### **PROGRAM INFORMATION**

PROGRAM:	Whole House Efficiency
PARTICIPANT DEFINITION:	Participants
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

Audits & Rebates:	Single Family	Multi-Family	Weatherization	HVAC
Jan	42	0	0	40
Feb	244	2	0	53
Mar	192	1	0	28
Apr	140	1	0	134
Мау	113	0	0	91
Jun	153	1	0	139
Jul	0	0	0	0
Aug	0	0	0	0
Sep	0	0	0	0
Oct	0	0	0	0
Nov	0	0	0	0
Dec	0	0	0	0
YTD	884	5	0	485
PTD	884	5	0	485

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	1,551,325	1,551,325
Anticipated Peak Demand (kW) Reduction:		
Summer	217	217
Winter	399	399

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$527,636	\$0	\$527,636
Promotional:	\$91,647	\$0	\$91,647
Customer Incentives:	\$181,400	\$0	\$181,400
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$800,682	\$0	\$800,682
Lost Revenues:	\$19,514	\$0	\$19,514
Efficiency Incentive:	\$43,281	\$0	\$43,281
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$863,477	\$0	\$863,477

#### **COMMENTS:**

The program encourages whole-house improvements to existing homes by promoting home energy audits and comprehensive retrofit services. Single family and multi-family residential customer that own or rent a residence and have an electric central cooling or heat pump system are eligible.

The program delivers three options:

- 1. Home Energy Audit
- 2. Weatherization Measures
- 3. HVAC equipment

The participant and expense forecast for 2016 is 2,020 home audits, 150 weatherization and 1,036 HVAC rebates and \$1,901,103, respectively.

The participant and expense forecast for 2017 is 2,020 home audits, 165 weatherization and 612 HVAC rebates and \$1,648,726, respectively.

# PROGRAM INFORMATION

PROGRAM:	High Efficiency Heat Pump - Mobile Home - Inactive
PARTICIPANT DEFINITION:	Number of Units Installed
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

ew Participants		
Jan	0	
Feb	0	
Mar	0	
Apr	0	
May	0	
Jun	0	
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD	0	
PTD	3,370	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	88,975,126
Anticipated Peak Demand (kW) Reduction:		
Summer	0	628
Winter	0	4,760

Costs			
		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$67,774
Equipment/Vendor:	\$0	\$0	\$119,755
Promotional:	\$0	\$0	\$4,860
Customer Incentives:	\$0	\$0	\$1,413,100
Other Costs:	\$0	\$0	\$1,167
Total Program Costs	\$0	\$0	\$1,606,656
Lost Revenues:	\$32,753	\$5,820	\$853,967
Efficiency Incentive:	\$0	\$18,331	\$355,268
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$32,753	\$24,151	\$2,815,891

#### **COMMENTS:**

The High Efficiency Heat Pump - Mobile Home program provides incentives to customers, encouraging them to install the highest efficiency equipment practical.

This program will be combined with the Whole House Efficiency program.

# PROGRAM INFORMATION

PROGRAM:	Mobile Home New Construction - Inactive
PARTICIPANT DEFINITION:	Number of Units Installed
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	Heat Pump	Air Conditioner
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
Мау	0	0
Jun	0	0
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD	0	0
PTD	2,894	2

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	128,929,324
Anticipated Peak Demand (kW) Reduction:		
Summer	0	995
Winter	0	5,311

	Retroactive		
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$50,872
Equipment/Vendor:	\$0	\$0	\$167,463
Promotional:	\$0	\$0	\$5,952
Customer Incentives:	\$0	\$0	\$1,456,450
Other Costs:	\$0	\$0	\$5,616
Total Program Costs	\$0	\$0	\$1,686,353
Lost Revenues:	\$17,274	\$0	\$785,363
Efficiency Incentive:	\$0	\$0	\$223,411
Maximizing Incentive:	\$0	\$0	\$2,580
Total Costs	\$17,274	\$0	\$2,697,707

#### **COMMENTS:**

The program provides a financial incentive to new mobile home buyers and trade allies to encourage the installation of of high efficiency heat pumps and upgraded insulation packages to new mobile homes.

This program is being combined with the New Manufactured Homes program.

PROGRAM INFORMATION	
PROGRAM:	Modified Energy Fitness - Inactive
PARTICIPANT DEFINITION:	Number of Home Audits
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	
Jan	0
Feb	0
Mar	0
Apr	0
May	0
Jun	0
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	
YTD PTD	0 14,685

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	86,629,653
Anticipated Peak Demand (kW) Reduction:		
Summer	0	1,853
Winter	0	5,479

Costs		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$72,235
Equipment/Vendor:	\$151	\$0	\$5,477,085
Promotional:	\$0	\$0	\$187,769
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$151	\$0	\$5,737,089
Lost Revenues:	\$113,828	\$0	\$1,498,628
Efficiency Incentive:	\$0	\$0	\$387,254
Maximizing Incentive:	\$8	\$0	\$8
Total Costs	\$113,987	\$0	\$7,622,979

#### **COMMENTS:**

The Modified Energy Fitness program provides energy audits, blower door testing, duct sealing and direct installation of low cost conservation measures to residential customers with electric space heating and electric water heating.

The equipment / vendor cost category includes the cost of labor and materials of measures installed, the cost of promotion by the vendor and vendor administration costs including customer education.

The program is being combined with the new Whole House Efficiency program. Some residual expenses for the program from 2015 were paid in 2016.

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### KENTUCKY POWER COMPANY

PROGRA	M INFORMATION
4	

PROGRAM:	High Efficiency Heat Pumps - Inactive	
PARTICIPANT DEFINITION:	Number of Units Installed	
CUSTOMER SECTOR:	Residential	
REPORTING PERIOD:	January 1, 2016 - June 30, 2016	

New Participants	<b>Resistance</b>	Non Resistance
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
May	0	0
Jun	0	0
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD	0	0
PTD	1,374	2,792

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	4,565,384
Anticipated Peak Demand (kW) Reduction:		
Summer	0	145
Winter	0	3,021

Costs			
	Retroactive		
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$36,601
Equipment/Vendor:	\$0	\$0	\$233,200
Promotional:	\$0	\$0	\$15,714
Customer Incentives:	\$0	\$0	\$1,644,160
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$1,929,675
Lost Revenues:	\$61,282	\$0	\$537,625
Efficiency Incentive:	\$0	\$0	\$351,883
Maximizing Incentive:	\$0	\$0	\$17,177
Total Costs	\$61,282	\$0	\$2,836,360

#### COMMENTS:

This program was implemented to reduce residential electric consumption by replacing older, less efficient electric heating systems with high efficiency heat pumps. Customers are provided an incentive encouraging them to promote the highest efficiency equipment practical.

The program is being combined with the new Whole House Efficiency program.

# **PROGRAM INFORMATION**

PROGRAM:	Residential HVAC Diagnostic and Tune-up - Inactive
PARTICIPANT DEFINITION:	Number of Units receiving service
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	Heat Pump	Air Conditioner
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD	0	0
PTD	1,910	454

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	595,144
Anticipated Peak Demand (kW) Reduction:		
Summer	0	254
Winter	0	404

Costs			
	Retroactive		
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$30,594
Equipment/Vendor:	\$0	\$0	\$108,975
Promotional:	\$0	\$0	\$15,099
Customer Incentives:	\$0	\$0	\$110,640
Administration:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$50
Total Program Costs	\$0	\$0	\$265,358
Lost Revenues:	\$2,808	\$1,944	\$42,682
Efficiency Incentive:	\$0	\$184	\$8,930
Maximizing Incentive:	\$0	\$0	\$8,115
Total Costs	\$2,808	\$2,128	\$325,085

#### COMMENTS:

The Residential HVAC Diagnostic and Tune-up Program provides incentives to customers for a variety of HVAC services including over and under refrigerant charge and other diagnostic performance checks on residential unitary central air conditioning and heat pump units. Central Air Conditioning units were discontinued 12/31/12.

A 2014 portfolio evaluation recommended program termination after the 2014 program year.

PROGRAM:	Pilot Residential Load Management - Inactive	
PARTICIPANT DEFINITION:	Number of Switches Installed	
CUSTOMER SECTOR:	Residential	
REPORTING PERIOD:	January 1, 2016 - June 30, 2016	

New Participants	A/C Switches	Water Heater SW
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD	0	0
PTD	65	52

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$31,060
Equipment/Vendor:	\$0	\$0	\$293,463
Promotional:	\$0	\$0	\$12,192
Customer Incentives:	\$0	\$0	\$1,516
Other Costs:	\$0	\$0	\$696
Total Program Costs	\$0	\$0	\$338,927
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$0	\$0	\$338,927

#### **COMMENTS:**

The Pilot Residential Load Management Program will determine whether peak demand can be effectively reduced through the installation of load control devices on central air conditioners, heat pumps, and/or electric water heaters. The program was completed December 31, 2012.

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# **PROGRAM INFORMATION**

PROGRAM:	Energy Fitness - Inactive
PARTICIPANT DEFINITION:	Number of Households
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants		
Jan	0	
Feb	0	
Mar	0	
Apr	0	
May	0	
Jun	0	
Jul	0	
Aug	0	
Sep	0	
Oct	0	
Nov	0	
Dec	0	
YTD PTD	0 2,812	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	55,360,221
Anticipated Peak Demand (kW) Reduction:		
Summer	0	441
Winter	0	1,932

Costs			
		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	0.00	0.00	18,189.00
Equipment/Vendor:	0.00	0.00	665,964.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	0.00
Other Costs:	0.00	0.00	960.00
Total Program Costs	0.00	0.00	685,113.00
Lost Revenues:	0.00	(19,322.00)	363,029.00
Efficiency Incentive:	0.00	(46,349.00)	63,482.00
Maximizing Incentive:	0.00	0.00	0.00
Total Costs	0.00	(65,671.00)	1,111,624.00

#### **COMMENTS:**

This program was discontinued May 14, 1999.

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### KENTUCKY POWER COMPANY

# PROGRAM INFORMATION

PROGRAM:	Compact Fluorescent Bulb - Inactive
PARTICIPANT DEFINITION:	Number of Bulbs Installed
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants		
Jan	0	
Feb	0	
Mar	0	
Apr	0	
Мау	0	
Jun	0	
Jul	0	
Aug	0	
Sep	0	
Oct	0	
Nov	0	
Dec	0	
YTD	0	
PTD	269	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	280,416
Anticipated Peak Demand (kW) Reduction:		
Summer	0	3
Winter	0	3

		Retroactive	
Description	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	0.00	0.00	60.00
Equipment/Vendor:	0.00	0.00	15,021.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	0.00
Other Costs:	0.00	0.00	0.00
Total Program Costs	0.00	0.00	15,081.00
Lost Revenues:	0.00	25.00	1,605.00
Efficiency Incentive:	0.00	8.00	433.00
Maximizing Incentive:	0.00	0.00	0.00
Total Costs	0.00	33.00	17,119.00

### **COMMENTS:**

This program was discontinued December 31, 1996

PROGRA	M INFORMATI	ON

PROGRAM:	High Efficiency Heat Pumps Retro - Inactive
PARTICIPANT DEFINITION:	Number of Units Installed
CUSTOMER SECTOR:	Residential
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	Resistance	Non Resistance
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
Мау	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Oct	0	0
Nov	0	0
Dec	0	0
YTD	0	0
PTD	1,367	929

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	71,026,985
Anticipated Peak Demand (kW) Reduction:		
Summer	0	851
Winter	0	2,995

Costs			
		Retroactive	
Description	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	0.00	0.00	12,885.00
Equipment/Vendor:	0.00	0.00	129,767.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	70,500.00
Other Costs:	0.00	0.00	1,160.00
Total Program Costs	0.00	0.00	214,312.00
Lost Revenues:	0.00	(269.00)	368,960.00
Efficiency Incentive:	0.00	(2,196.00)	48,017.00
Maximizing Incentive:	0.00	0.00	5.00
Total Costs	0.00	(2,465.00)	631,294.00

### **COMMENTS:**

This program was discontinued December 31, 2001.

PROGRAM:	General Commercial Administrative
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

Costs			
		Retroactive	
<b>Description</b>	<u>Year-To-Date</u>	Adjustment	Program-To-Date
Administrative	\$968	\$0	\$233,789
Promotion	\$0	\$0	\$2,171
Other	\$0	\$0	\$0
Total Costs	\$968	\$0	\$235,960

### COMMENTS:

Administrative expense represents Market Potential Study and program design services which began Fall 2014. The category will continue to reflect portfolio expenses related to Evaluation, Measurement and Verification work.

The expense forecast for 2016 is \$56,467. The expense forecast for 2017 is \$50,000.

# PROGRAM INFORMATION

PROGRAM:	Commercial Appliance Recycling
PARTICIPANT DEFINITION:	Number of Units Recycled
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Recycled Units		Refrigerator	Freezer
Jan		0	0
Feb		0	0
Mar		0	0
Apr		0	0
May		0	0
Jun		0	0
Jul		0	0
Aug		0	0
Sep		0	0
Oct		0	0
Nov		0	0
Dec		0	0
	YTD	0	0
	PTD	0	0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

Costs			
	Retroactive		
Description	<u>Year-To-Date</u>	<b>Adjustment</b>	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$0	\$0	\$0
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$0
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0

#### **COMMENTS:**

The Appliance Recycling program provides incentives to customer who recycle a working second refrigerator or freezer that is in the home. The components of the unit are recycled in an environmentally friendly manner.

The program is proposed for the 2017 program year. The participant and expense forecast for 2017 is 50 and \$8,253, respectively.

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### KENTUCKY POWER COMPANY

# PROGRAM INFORMATION

PROGRAM:	Commercial High Efficiency HP/AC
PARTICIPANT DEFINITION:	Number of Units Installed
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	Heat Pump	Air Conditioner
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
May	0	0
Jun	0	0
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD PTD	0 80	0 4

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	54,646
Anticipated Peak Demand (kW) Reduction:		
Summer	0	25
Winter	0	34

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$28,806
Equipment/Vendor:	-\$250	\$0	\$3,950
Promotional:	\$0	\$0	\$25,745
Customer Incentives:	\$1,950	\$0	\$33,400
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$1,700	\$0	\$91,901
Lost Revenues:	\$1,101	\$0	\$4,724
Efficiency Incentive:	\$0	\$0	\$1,224
Maximizing Incentive:	\$0	\$0	\$3,335
Total Costs	\$2,801	\$0	\$101,184

#### **COMMENTS:**

The Commercial High Efficiency Heat Pump/Air Conditioner program offers financial incentive to small commercial customers (< 100 kW demand) who upgrade to a new qualifying central air conditioner or heat pump with a Consortium for Energy Efficiency (CEE) rating. Applicable for 5 ton units or less.

The program was completed in 2015. Some residual program expenses were paid in 2016.

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## **PROGRAM INFORMATION**

PROGRAM:	CI Prescriptive Custom
PARTICIPANT DEFINITION:	Number of Participants Projects Installed
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	Projects Installed	
Jan	9	
Feb	27	
Mar	16	
Apr	13	
May	16	
Jun	29	
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD	110	
PTD	110	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	2,128,496	2,128,496
Anticipated Peak Demand (kW) Reduction:		
Summer	409	409
Winter	376	376

Costs		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$339,020	\$0	\$339,020
Promotional:	\$708	\$0	\$708
Customer Incentives:	\$376,621	\$0	\$376,621
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$716,349	\$0	\$716,349
Lost Revenues:	\$41,049	\$0	\$41,049
Efficiency Incentive:	\$64,325	\$0	\$64,325
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$821,723	\$0	\$821,723

#### **COMMENTS:**

The Commercial Incentive program offers energy savings for all commercial business customers through promotion of high efficiency electric lighting, HVAC, pumps, and motors. Primary objectives include; increasing the market share and installation rate of high efficiency technologies, and improving the operating efficiencies of existing long life equipment for commercial customers.

The participant and expense forecast for 2016 is 200 customers and \$1,474,159. This program was modified in 2016 to include only prescriptive and custom services. The 2017 participant and expense forecast is 215 and \$1,566,845, respectively.

## **PROGRAM INFORMATION**

PROGRAM:	School Energy Manager Program
PARTICIPANT DEFINITION:	School District Participation
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

Participating Schools	Districts	
Jan	17	
Feb	17	
Mar	17	
Apr	17	
Мау	17	
Jun	17	
Jul	0	
Aug	0	
Sep	0	
Oct	0	
Nov	0	
Dec	0	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	257,637	692,178
Anticipated Peak Demand (kW) Reduction:		
Summer	96	212
Winter	96	451

Costs		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$0	\$0	\$200,000
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$200,000
Lost Revenues:	\$21,785	\$0	\$21,785
Efficiency Incentive:	\$191	\$0	\$528
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$21,976	\$0	\$222,313

#### **COMMENTS:**

The first phase of the School Energy Manager program was not expensed to DSM. The first phase consisted of a total of eight potential school districts that could participate with the program. The following five school districts participated in 2014: Carter, Johnson, Martin, Lawrence, and Paintsville.

The second phase of the program expands to include a potential of 23 school districts beginning July 2015. The DSM program budget for the 2nd phase of the program will be \$200,000. Actual school district start date and participation is dependent on the school district contractual agreement with Kentucky School Board Association (KSBA).

The expense forecast for 2016 is \$202,670. The expense forecast for 2017 is \$208,000.

# **PROGRAM INFORMATION**

PROGRAM:	Express Install
PARTICIPANT DEFINITION:	Completed Customer Project
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

Participation:	Completed Projects
Jan	
Feb	
Mar	
Apr	
Мау	
Jun	
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	
YTD	0
PTD	0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$0	\$0	\$0
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$0
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0

#### **COMMENTS:**

The program offers small commercial customers an energy assessment that includes information on potential energy savings and anticipated payback. Incentives are available for up to 70% of the equipment and installation cost. The program strategy includes three components:

- 1. Walk-Through Audit
- 2. Direct Installation of Measures
- 3. Customer Education

The participant and expense forecast for 2016 is 45 customer projects and \$192,378. The participant and expense forecast for 2017 is 54 customer projects and \$222,150.

# **PROGRAM INFORMATION**

PROGRAM:	New Construction
PARTICIPANT DEFINITION:	Completed Customer Project
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

Participation:	Completed Projects
Jan	0
Feb	1
Mar	1
Apr	1
May	0
Jun	1
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	
YTD	4
PTD	4

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	117,770	117,770
Anticipated Peak Demand (kW) Reduction:		
Summer	32	32
Winter	20	20

Costs			
		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$0	\$0	\$0
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$4,191	\$0	\$4,191
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$4,191	\$0	\$4,191
Lost Revenues:	\$2,306	\$0	\$2,306
Efficiency Incentive:	\$2,157	\$0	\$2,157
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$8,654	\$0	\$8,654

#### **COMMENTS:**

The program encourages decision-makers in new construction and major reovation projects to incorporate greater energy efficiency into their building design and construction practices. Participation includes two components:

- 1. Whole Building Approach
- 2. Systems Approach

The participant and expense forecast for 2016 is 12 customer projects and \$93,483. The participant and expense forecast for 2017 is 12 customer projects and \$134,940.

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# **PROGRAM INFORMATION**

PROGRAM:	Retro-Commissioning
PARTICIPANT DEFINITION:	Customer Project
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

Participation:	Completed Projects
Jan	0
Feb	0
Mar	0
Apr	0
Мау	0
Jun	0
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	
YTD	0
PTD	0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

Costs			
		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$0
Equipment/Vendor:	\$1,872	\$0	\$1,872
Promotional:	\$0	\$0	\$0
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$1,872	\$0	\$1,872
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$1,872	\$0	\$1,872

#### **COMMENTS:**

The program provides a study to optimize customer's building automation systems. Eligible customers receive one of the following fully funded studies based upon the building size:

1. RCx Lite: Buildings with 50,000 and 150,000 square feet and 150 to 500 kW peak demand.

2. RCx Standard: Buildings larger than 150,000 square feet and with greater than 500 kW peak demand.

The participant and expense forecast for 2016 is 3 customer projects and \$108,093. The participant and expense forecast for 2017 is 3 customer projects and \$133,080.

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### KENTUCKY POWER COMPANY

### **PROGRAM INFORMATION**

PROGRAM:	Commercial Incentive - Inactive
PARTICIPANT DEFINITION:	Number of Participants Projects Installed
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	Projects Installed	
Jan	0	
Feb	0	
Mar	0	
Apr	0	
Мау	0	
Jun	0	
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD PTD	0 793	

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	9,768,967
Anticipated Peak Demand (kW) Reduction:		
Summer	0	3,007
Winter	0	2,966

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$142,391
Equipment/Vendor:	\$17,289	\$0	\$2,239,695
Promotional:	\$0	\$0	\$77,393
Customer Incentives:	\$0	\$0	\$2,285,384
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$17,289	\$0	\$4,744,863
Lost Revenues:	\$502,668	\$0	\$1,329,145
Efficiency Incentive:	\$0	\$0	\$315,014
Maximizing Incentive:	\$0	\$0	\$102,031
Total Costs	\$519,957	\$0	\$6,491,053

#### COMMENTS:

The Commercial Incentive program offers energy savings for all commercial business customers through promotion of high efficiency electric lighting, HVAC, pumps, and motors. Primary objectives include; increasing the market share and installation rate of high efficiency technologies, and improving the operating efficiencies of existing long life equipment for commercial customers.

This program was modified in 2016 to include only prescriptive and custom services. Some residual 2105 program expense were paid in 2016. The new program design added the Commercial New Construction program, the Commercial Express Install program, and the Commercial Retro-Commissioning program.

# **PROGRAM INFORMATION**

PROGRAM:	Commercial HVAC Diagnostic and Tune-up - Inactive
PARTICIPANT DEFINITION:	Number of Units receiving service
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	Heat Pump	Air Conditioner
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
May	0	0
Jun	0	0
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD PTD	0 242	0 84

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	141,188
Anticipated Peak Demand (kW) Reduction:		
Summer	0	74
Winter	0	101

Costs			
		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$26,347
Equipment/Vendor:	\$0	\$0	\$14,525
Promotional:	\$0	\$0	\$13,177
Customer Incentives:	\$0	\$0	\$21,450
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$75,499
Lost Revenues:	\$870	\$0	\$9,800
Efficiency Incentive:	\$0	\$0	\$3,496
Maximizing Incentive:	\$0	\$0	\$2,415
Total Costs	\$870	\$0	\$91,210

#### **COMMENTS:**

The Commercial HVAC Diagnostic and Tune-up Program provides a variety of HVAC services, including diagnostic performance checks on commercial unitary central air conditioning and heat pump units.

The Equipment / Vendor cost include the cost of incentives for participating HVAC dealers promotion of the program. Central Air Conditioning units were discontinued 12/31/12.

The 2014 portfolio evaluation recommended program termination after the 2014 program year.

# **PROGRAM INFORMATION**

PROGRAM:	Pilot Commercial Load Management - Inactive
PARTICIPANT DEFINITION:	Number of Switches Installed
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	Heat Pump	Air Conditioner
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		
YTD	0	0
PTD	0	0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	0
Anticipated Peak Demand (kW) Reduction:		
Summer	0	0
Winter	0	0

Costs			
		Retroactive	
Description	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	\$0	\$0	\$17,939
Equipment/Vendor:	\$0	\$0	\$30,000
Promotional:	\$0	\$0	\$240
Customer Incentives:	\$0	\$0	\$0
Other Costs:	\$0	\$0	\$0
Total Program Costs	\$0	\$0	\$48,179
Lost Revenues:	\$0	\$0	\$0
Efficiency Incentive:	\$0	\$0	\$0
Maximizing Incentive:	\$0	\$0	\$0
Total Costs	\$0	\$0	\$48,179

#### COMMENTS:

The Pilot Commercial Load Management Program will determine whether peak demand can be effectively reduced through the installation of load control devices on central air conditioners, heat pumps, and/or electric water heaters. The pilot program was completed December 31, 2012.

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### KENTUCKY POWER COMPANY

PROC	GRAM INFORMATION
ΔM·	Smart Audit - Commercial - Inactive

PROGRAM:	Smart Audit - Commercial - Inactive
PARTICIPANT DEFINITION:	Number of Audits
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	Class I	Class II
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
Мау	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Oct	0	0
Nov	0	0
Dec	0	0
YTD PTD	0 1,952	0 194

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	n/a	n/a
Anticipated Peak Demand (kW) Reduction:		
Summer	n/a	n/a
Winter	n/a	n/a

		Retroactive	
<b>Description</b>	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	0.00	0.00	30,661.00
Equipment/Vendor:	0.00	0.00	1,268,176.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	0.00
Other Costs:	0.00	0.00	(8,156.00)
Total Program Costs	0.00	0.00	1,290,681.00
Lost Revenues:	0.00	0.00	0.00
Efficiency Incentive:	0.00	0.00	0.00
Maximizing Incentive:	0.00	0.00	64,533.00
Total Costs	0.00	0.00	1,355,214.00

### **COMMENTS:**

This program was discontinued December 31, 2002.

PROGRA	Μ	INF	OR	RMAT	ION
-	-	-	_	-	

PROGRAM:	Smart Incentive - Commercial - Inactive
PARTICIPANT DEFINITION:	Number of Incentives
CUSTOMER SECTOR:	Commercial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	Existing Building	New Building
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
May	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Oct	0	0
Nov	0	0
Dec	0	0
YTD PTD	0 182	0 69

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	125,682,085
Anticipated Peak Demand (kW) Reduction:		
Summer	0	1,519
Winter	0	2,640

Costs			
		Retroactive	
<b>Description</b>	Year-To-Date	<b>Adjustment</b>	Program-To-Date
Total Evaluation	0.00	0.00	144,039.00
Equipment/Vendor:	0.00	0.00	21,504.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	399,592.00
Other Costs:	0.00	0.00	691.00
Total Program Costs	0.00	0.00	565,826.00
Lost Revenues:	0.00	442.00	891,458.00
Efficiency Incentive:	0.00	1,078.00	88,039.00
Maximizing Incentive:	0.00	0.00	281.00
Total Costs	0.00	1,520.00	1,545,604.00

### **COMMENTS:**

This program was discontinued December 31, 2002.

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### KENTUCKY POWER COMPANY

PROGRA	M INFORMATION
RAM:	Smart Audit - Industrial - Inactive

Smart Audit - Industrial - Inactive
Number of Audits
Industrial
January 1, 2016 - June 30, 2016

New Participants	Class I	<u>Class II</u>
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
Мау	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Oct	0	0
Nov	0	0
Dec	0	0
YTD	0	0
PTD	60	4

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	n/a	n/a
Anticipated Peak Demand (kW) Reduction:		
Summer	n/a	n/a
Winter	n/a	n/a

	Retroactive		
Description	Year-To-Date	Adjustment	Program-To-Date
Total Evaluation	0.00	0.00	5,741.00
Equipment/Vendor:	0.00	0.00	37,786.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	0.00
Other Costs:	0.00	0.00	161.00
Total Program Costs	0.00	0.00	43,688.00
Lost Revenues:	0.00	0.00	0.00
Efficiency Incentive:	0.00	0.00	0.00
Maximizing Incentive:	0.00	0.00	2,186.00
Total Costs	0.00	0.00	45,874.00

### COMMENTS:

This program was discontinued December 31, 1998.

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### KENTUCKY POWER COMPANY

# **PROGRAM INFORMATION**

PROGRAM:	Smart Incentive - Industrial - Inactive
PARTICIPANT DEFINITION:	Number of Incentives
CUSTOMER SECTOR:	Industrial
REPORTING PERIOD:	January 1, 2016 - June 30, 2016

New Participants	General	Compressed Air
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
Мау	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Oct	0	0
Nov	0	0
Dec	0	0
YTD	0	0
PTD	1	0

Impacts		
	Year-To-Date	Program-To-Date
Estimated in Place Energy (kWh) Savings	0	170,525
Anticipated Peak Demand (kW) Reduction:		
Summer	0	6
Winter	0	6

Costs			
	Retroactive		
<b>Description</b>	Year-To-Date	<b>Adjustment</b>	Program-To-Date
Total Evaluation	0.00	0.00	28,385.00
Equipment/Vendor:	0.00	0.00	3,288.00
Promotional:	0.00	0.00	0.00
Customer Incentives:	0.00	0.00	441.00
Other Costs:	0.00	0.00	0.00
Total Program Costs	0.00	0.00	32,114.00
Lost Revenues:	0.00	0.00	0.00
Efficiency Incentive:	0.00	0.00	383.00
Maximizing Incentive:	0.00	0.00	655.00
Total Costs	0.00	0.00	33,152.00

#### **COMMENTS:**

This program was discontinued December 31, 1998.