



Matthew R. Bernier  
SENIOR COUNSEL  
Duke Energy Florida, LLC

May 2, 2016

**Via ELECTRONIC DELIVERY**

Ms. Carlotta Stauffer, Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850

Re: *Energy Conservation Cost Recovery Clause; Docket No. 160002-EG*

Dear Ms. Stauffer:

Please find enclosed for filing on behalf of Duke Energy Florida, LLC ("DEF"), DEF's 2015 Actual True-up Testimony and Schedules. The filing includes the following:

- DEF's True-up Petition; and
- Direct Testimony of Lori J. Cross with attached Exhibit No. \_\_\_\_ (LJC-1T)

Thank you for your assistance in this matter. Please feel free to call me at (850) 521-1428 should you have any questions concerning this filing.

Respectfully,

s/ Matthew R. Bernier  
Matthew R. Bernier

MRB/at  
Enclosures

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Energy Conservation Cost  
Recovery Clause

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Docket No. 160002-EG

Filed: May 2, 2016

**DUKE ENERGY FLORIDA, LLC**  
**PETITION FOR APPROVAL OF TRUE-UP AMOUNT**

Pursuant to Order No. PSC-16-0102-PCO-EG, issued March 11, 2016 in the above-referenced docket, Duke Energy Florida, LLC (“DEF” or “the Company”) petitions the Florida Public Service Commission (“Commission”) for approval of an over-recovery of \$2,974,726 as DEF’s adjusted net true-up amount for the period January 2015 through December 2015. In support of this petition, DEF states:

1. The name and address of the affected agency are:

Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

2. The Petitioner’s name and address are:

Duke Energy Florida, LLC  
299 First Avenue North  
St. Petersburg, Florida 33701

Notices, orders, pleadings and correspondence to be served upon DEF in this proceeding should be directed to:

Dianne M. Triplett  
Associate General Counsel  
Duke Energy Florida  
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3. DEF is a public utility subject to the Commission's jurisdiction pursuant to Chapter 366, Florida Statutes. Pursuant to Section 366.82, Florida Statutes, and Rule 25-17.015, Florida Administrative Code, DEF recovers its reasonable and prudent unreimbursed costs for conservation audits, conservation programs and implementation of DEF's conservation plan through the Energy Conservation Cost Recovery ("ECCR") clause. DEF has substantial interests in the proper calculation and recovery of its ECCR factor and the final true-up which is used in the computation of the ECCR factor.

4. DEF seeks Commission approval of an over-recovery of \$2,974,726 as the adjusted net true-up amount for the period January 2015 through December 2015. DEF's final adjusted net true-up amount for the period January 2015 through December 2015 was calculated consistently with the methodology set forth in Schedule 1 attached to Commission Order No. 10093, dated June 19, 1981. This calculation and supporting documentation are contained in Exhibit No. \_\_ (LJC-1T), an exhibit attached to the prefiled testimony of DEF's witness Lori J. Cross, which is being filed in conjunction with this petition.

5. As reflected on Schedule CT-1 of Exhibit No. \_\_ (LJC-1T) to Ms. Cross' testimony, the adjusted net true-up for the period January 2015 through December 2015 is an over-recovery of \$2,974,726, which is the difference of the actual true-up over-recovery of \$6,293,328 and the estimated/actual true-up over-recovery of \$3,318,602.

WHEREFORE, DEF respectfully requests that the Commission approve an over-recovery of \$2,974,726 as the final adjusted net true-up amount for the period January 2015 through December 2015.

Respectfully submitted,

*/s/ Matthew R. Bernier*

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**CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished to the following by electronic mail this 2<sup>nd</sup> day of May, 2016, to all parties of record as indicated below.

/s/ Matthew R. Bernier

Attorney

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**DUKE ENERGY FLORIDA, LLC**

**DOCKET No. 160002-EG**

**Energy Conservation and Cost Recovery Final True-up  
for the Period January through December 2015**

**DIRECT TESTIMONY OF**

**Lori J. Cross**

**May 2, 2016**

1 **Q. Please state your name and business address.**

2 A. My name is Lori Cross. My business address is 299 First Avenue North, St.  
3 Petersburg, FL 33701.

4

5 **Q. By whom are you employed and in what capacity?**

6 A. I am employed by Duke Energy Business Services, LLC as Strategy &  
7 Collaboration Director in the Customer Programs Department. Duke Energy  
8 Business Services and Duke Energy Florida, LLC ("DEF" or the "Company")  
9 are both wholly owned subsidiaries of Duke Energy Corporation.

10

11 **Q. What are your duties and responsibilities in that position?**

12 A. My responsibilities include regulatory planning, support and compliance of  
13 the Company's energy efficiency and demand-side management ("DSM")  
14 programs. This includes support for development, implementation and  
15 training, budgeting and accounting functions related to these programs.

16

1 **Q. What is the purpose of your testimony?**

2 A. The purpose of my testimony is to compare DEF's 2015 actual energy  
3 conservation program costs with actual revenues collected through the  
4 Company's Energy Conservation Cost Recovery (ECCR) Clause during the  
5 period January 2015 through December 2015. The Company relies upon the  
6 information presented in my testimony and exhibit in the conduct of its affairs.

7  
8 **Q. For what programs does Duke Energy Florida seek recovery?**

9 A. DEF seeks recovery through the ECCR Clause for conservation programs  
10 approved by the Commission as part of the Company's DSM Plan, as well as  
11 for Conservation Program Administration (i.e., those common administration  
12 expenses not specifically assigned to an individual program). Notably, DEF  
13 seeks recovery of costs for conservation programs approved by the  
14 Commission on August 20, 2015 (see Order No. PSC-15-0332-PAA-EG) as  
15 follows:

- 16 • Home Energy Check
- 17 • Residential Incentive
- 18 • Neighborhood Energy Saver
- 19 • Low-Income Weatherization Assistance Program
- 20 • Energy Management (Residential and Commercial)
- 21 • Business Energy Check
- 22 • Better Business
- 23 • Florida Custom Incentive



- 1 • Standby Generation
- 2 • Interruptible Service
- 3 • Curtailable Service
- 4 • Solar Water Heating with Energy Management Pilot
- 5 • Solar Water Heating Low Income Residential Pilot
- 6 • Residential Solar Photovoltaic Pilot
- 7 • Commercial Solar Photovoltaic Pilot
- 8 • Photovoltaic for Schools Pilot
- 9 • Research and Demonstration Pilot
- 10 • Technology Development
- 11 • Qualifying Facility

12

13 **Q. Do you have any exhibits to your testimony?**

14 A. Yes, Exhibit No.\_\_(LJC-1T) entitled, "Duke Energy Florida, LLC Energy  
15 Conservation Adjusted Net True-Up for the Period January 2015 through  
16 December 2015." There are six (6) schedules included in this exhibit.

17

18 **Q. Will you please explain your exhibit?**

19 A. Yes. Exhibit No.\_\_(LJC-1T) presents Schedules CT-1 through CT-6.  
20 Schedules CT-1 to CT-4 set out actual costs incurred for all programs during  
21 the period from January 2015 through December 2015. These schedules also  
22 illustrate variances between actual costs and previously projected values for  
23 the same time period. Schedule CT-5 provides a brief summary of each

1 conservation program that includes a program description, program  
2 accomplishments, annual program expenditures, significant program cost  
3 variances versus projections, and a program progress summary over the  
4 twelve-month period ending December 2015. Schedule CT-6 is DEF's capital  
5 structure and cost rates.

6

7 **Q. Would you please discuss Schedule CT-1?**

8 A. Yes. Schedule CT-1 line 14 shows that DEF's actual end-of-period ECCR  
9 true-up for December 31, 2015 was an over-recovery of \$2,974,726, including  
10 principal and interest.

11

12 **Q. What does Schedule CT-2 show?**

13 A. The four pages of Schedule CT-2 provide an annual summary of  
14 conservation program revenues as well as itemized conservation program  
15 costs for the period January 2015 through December 2015 detailing actual,  
16 estimated and variance calculations by program. These costs are directly  
17 attributable to DEF's Commission-approved programs.

18

19 **Q. Would you please discuss Schedule CT-3?**

20 A. Yes. Page one of Schedule CT-3 provides actual conservation program  
21 costs by month for the period January 2015 through December 2015. Page  
22 two of Schedule CT-3 presents program revenues by month offset by  
23 expenses, and a calculation of the end of period net true-up for each month

1 and the total for the year. Page three provides the monthly interest  
2 calculation. Pages four and five of Schedule CT-3 provide conservation  
3 account numbers for the 2015 calendar year.

4

5 **Q. What is the purpose of Schedule CT-4?**

6 A. The five pages of Schedule CT-4 show monthly capital investment,  
7 depreciation and return for each conservation program.

8

9 **Q. Would you please discuss Schedule CT-5?**

10 A. Yes. Schedule CT-5 provides a brief summary report of each conservation  
11 program that includes a program description, program accomplishments,  
12 annual program expenditures, significant program cost variances versus  
13 projections, and a program progress summary for the 2015 calendar year.

14

15 **Q. What is the purpose of Schedule CT-6?**

16 A: Schedule CT-6 is the capital structure and cost rates used to calculate the  
17 return for each applicable conservation program.

18

19 **Q. What is the source of data used to calculate the true-up amount.**

20 A. The actual data used in calculating the actual true-up amounts is from DEF  
21 records unless otherwise indicated. These records are kept in the regular  
22 course of DEF's business in accordance with general accounting principles  
23 and practices, provisions of the Uniform System of Accounts as prescribed

1 by the Federal Regulatory Commission, and any accounting rules and  
2 orders established by this Commission. Pursuant to Rule 25-17.015(3),  
3 Florida Administrative Code, DEF provides a list of all account numbers  
4 used for conservation cost recovery during the period January 2015 through  
5 December 2015 on Schedule CT-3 pages 4 and 5.

6

7 **Q. Does this conclude your direct testimony?**

8 A. Yes.

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Duke Energy Florida, LLC

Energy Conservation Adjusted Net True-Up  
 For the Period January 2015 - December 2015

**Line  
 No.**

1	<b>Actual End of Period True-Up (Over) / Under Recovery</b>		
2	Beginning Balance	(\$24,443,628)	
3	Principal (CT-3 Page 2 of 5)	(6,276,493)	
4	Interest (CT-3 Page 2 of 5)	(16,835)	
5	Prior True-Up Refund	24,443,628	
6	Adjustments	0	(\$6,293,328)
		<hr/>	<hr/>
7	<b>Less: Estimated True-Up from August 2015</b>		
8	<b>Projection Filing (Over) / Under Recovery</b>		
9	Beginning Balance	(\$24,443,630)	
10	Principal	(3,303,857)	
11	Interest	(14,743)	
12	Prior True-Up Refund	24,443,628	
13	Adjustments	0	(\$3,318,602)
		<hr/>	<hr/>
14	Variance to Projection		(\$2,974,726)
			<hr/> <hr/>

Duke Energy Florida, LLC

Analysis of Energy Conservation Program Costs  
Actual vs. Estimated  
For the Period January 2015 - December 2015

Line No.	Program	Actual	Estimated	Difference
1	Depreciation, Amoritzation & Return	11,011,586	11,574,657	(563,070)
2	Payroll & Benefits	12,858,342	12,358,231	500,111
3	Materials & Supplies	1,929,485	3,200,141	(1,270,656)
4	Outside Services	3,383,218	4,180,936	(797,718)
5	Advertising	1,387,323	841,155	546,167
6	Incentives	77,028,148	77,639,838	(611,690)
7	Vehicles	305,768	256,919	48,849
7	Other	551,271	606,277	(55,006)
8	Program Revenues	0	0	0
9	Total Program Costs	108,455,141	110,658,154	(2,203,013)
11	Less:			
12	Conservation Clause Revenues	90,288,006	89,518,382	769,624
13	Prior True-Up	24,443,628	24,443,628	0
14	True-Up Before Interest	(6,276,493)	(3,303,857)	(2,972,636)
15	Audit & Revenue Decoupling Adjustment	0	0	0
16	Interest Provision	(16,835)	(14,743)	(2,092)
17	End of Period True-Up	(6,293,328)	(3,318,600)	(2,974,728)

( ) Reflects over-recovery

\*\* Certain schedules may not foot/crossfoot due to rounding of decimals in files.

Duke Energy Florida, LLC

Actual Energy Conservation Program Costs per Program  
For the Period January 2015 - December 2015

Line No.	Program	Depreciation Amortization & Return	Payroll & Benefits	Vehicles	Outside Services	Materials & Supplies	Advertising	Incentives	Other	Sub-Total	Program Revenues (credit)	Total
1	Home Energy Check	19,488	2,788,345	99,023	43,252	112,160	271,936	61,949	50,864	3,447,016	0	3,447,016
2	Residential Incentive (HEI & New Const)	268	1,792,620	57,238	82,824	16,551	240,998	6,117,729	100,882	8,409,111	0	8,409,111
3	Business Energy Check	18,499	599,648	27,333	104,331	18,115	2,927	27,750	27,981	826,584	0	826,584
4	Better Business (incl. C/I New Const)	5,609	1,650,060	2,791	113,844	31,196	4,606	1,378,746	19,933	3,206,784	0	3,206,784
5	Technology Development	401	121,593	3,028	42,456	29,403	0	0	10,152	207,033	0	207,033
6	Solar Water Heating w/ EM	0	33,972	0	545	608	0	152,686	1,832	189,643	0	189,643
7	Research and Demonstration	0	16,053	680	10,000	0	0	0	573	27,306	0	27,306
8	Solar Water Heat Low Income Res Cust	0	19,865	233	273	36	0	90,652	1,709	112,769	0	112,769
9	Photovoltaic for Schools Pilot	0	31,331	0	2,683	7,605	0	955,222	6,557	1,003,397	0	1,003,397
10	Residential Solar Photovoltaic	0	84,563	610	1,068	39	0	2,696,574	12,892	2,795,745	0	2,795,745
11	Commercial Solar Photovoltaic	0	29,720	0	144	10	0	1,389,370	2,152	1,421,396	0	1,421,396
12	Florida Custom Incentive Program	0	44,849	502	1,871	42	0	9,082	1,478	57,824	0	57,824
13	Interruptible Service	18,311	83,190	845	5,715	53,579	0	31,271,308	5,167	31,438,116	0	31,438,116
14	Curtable Service	0	0	0	0	0	0	1,798,558	0	1,798,558	0	1,798,558
15	Residential Energy Mgt	10,861,229	1,712,880	42,172	1,700,051	1,289,327	787,693	22,899,013	53,783	39,346,147	0	39,346,147
16	Commercial Energy Mgt	0	174	0	0	0	0	549,465	0	549,639	0	549,639
17	Low Income	0	116,046	137	190	57	22,552	81,539	7,128	227,648	0	227,648
18	Standby Generation	85,152	151,655	9,404	25,732	99,674	0	6,872,039	8,106	7,251,763	0	7,251,763
19	Qualifying Facility	0	803,992	6,112	7,880	313	0	0	22,037	840,334	0	840,334
20	Renewable Energy Saver	0	0	0	0	0	0	0	0	0	0	0
21	Neighborhood Energy Saver	0	194,364	710	278,147	1,869	56,611	674,836	21,743	1,228,280	0	1,228,280
22	Conservation Program Admin	2,630	2,583,421	54,951	962,214	268,898	0	1,630	196,303	4,070,047	0	4,070,047
23	Total All Programs	11,011,586	12,858,342	305,768	3,383,218	1,929,485	1,387,323	77,028,148	551,271	108,455,141	0	108,455,141

\*\* Certain schedules may not foot/crossfoot due to rounding of decimals in files.

Duke Energy Florida, LLC

Variance in Energy Conservation Program Costs  
12 Months Actual vs. 12 Months Estimated

Line No.	Program	Depreciation Amortization & Return	Payroll & Benefits	Vehicles	Outside Services	Materials & Supplies	Advertising	Incentives	Other	Sub-Total	Program Revenues (credit)	Total
1	Home Energy Check	(2)	33,701	21,390	16,152	(314,305)	143,237	(17,296)	5,137	(111,986)	0	(111,986)
2	Residential Incentive (HEI & New Const)	0	(38,503)	21,714	(20,382)	5,949	192,375	(642,124)	(31,215)	(512,186)	0	(512,186)
3	Business Energy Check	(0)	176,756	11,024	(61,401)	(11,683)	(2,073)	27,750	14,577	154,949	0	154,949
4	Better Business (incl. C/I New Const)	0	539,419	(346)	44,152	(11,006)	(70,394)	(120,445)	3,982	385,363	0	385,363
5	Technology Development	0	(97,809)	2,030	(151,095)	(67,547)	0	0	(25,947)	(340,368)	0	(340,368)
6	Solar Water Heating w/ EM	0	3,033	0	(1,897)	1	0	36,142	445	37,725	0	37,725
7	Research and Demonstration	0	(13,962)	341	(27,826)	(15,000)	0	0	(4,073)	(60,520)	0	(60,520)
8	Solar Water Heat Low Income Res Cust	0	1,126	(92)	(5,489)	18	0	(18,686)	312	(22,810)	0	(22,810)
9	Photovoltaic for Schools Pilot	0	(11,474)	0	(4,672)	1,861	(1,397)	(595,842)	(4,634)	(616,158)	0	(616,158)
10	Residential Solar Photovoltaic	0	(29,258)	(37)	(2,266)	1	0	54,428	3,477	26,346	0	26,346
11	Commercial Solar Photovoltaic	0	(3,425)	0	(6,317)	1	0	(4,031)	369	(13,402)	0	(13,402)
12	Florida Custom Incentive Program	0	(8,703)	249	(41,058)	13	0	(76,144)	102	(125,540)	0	(125,540)
13	Interruptible Service	(1,710)	22,599	(980)	765	13,747	0	865,749	(38)	900,133	0	900,133
14	Curtaillable Service	0	0	0	0	0	0	347,283	0	347,283	0	347,283
15	Residential Energy Mgt	(561,355)	538,007	17,020	(877,167)	(950,316)	280,587	(871,125)	(29,487)	(2,453,835)	0	(2,453,835)
16	Commercial Energy Mgt	0	0	0	0	0	0	(13,119)	0	(13,119)	0	(13,119)
17	Low Income	0	3,295	137	190	57	(8,401)	(28,788)	(2,653)	(36,164)	0	(36,164)
18	Standby Generation	(3)	36,471	2,079	9,630	49,738	0	571,551	(1,768)	667,698	0	667,698
19	Qualifying Facility	0	(13,893)	(1,406)	(5,934)	(709)	0	0	5,712	(16,230)	0	(16,230)
20	Renewable Energy Saver	0	0	0	0	0	0	0	0	0	0	0
21	Neighborhood Energy Saver	0	(14,821)	(57)	33,125	(11,425)	12,234	(128,623)	(6,745)	(116,312)	0	(116,312)
22	Conservation Program Admin	0	(622,449)	(24,218)	303,769	39,948	0	1,630	17,441	(283,878)	0	(283,878)
23	Total All Programs	(563,070)	500,111	48,849	(797,718)	(1,270,656)	546,167	(611,690)	(55,006)	(2,203,013)	0	(2,203,013)



Duke Energy Florida, LLC

Projected Energy Conservation Program Costs per Program  
For the Period January 2015 - December 2015

Line No.	Program	Depreciation Amortization & Return	Payroll & Benefits	Vehicles	Outside Services	Materials & Supplies	Advertising	Incentives	Other	Sub-Total	Program Revenues (credit)	Total
1	Home Energy Check	19,490	2,754,644	77,632	27,100	426,465	128,698	79,246	45,727	3,559,002	0	3,559,002
2	Residential Incentive (HEI & New Const)	268	1,831,123	35,523	103,206	10,602	48,624	6,759,853	132,097	8,921,297	0	8,921,297
3	Business Energy Check	18,499	422,892	16,309	165,732	29,798	5,000	0	13,404	671,635	0	671,635
4	Better Business (incl. C/I New Const)	5,609	1,110,642	3,136	69,691	42,202	75,000	1,499,190	15,951	2,821,422	0	2,821,422
5	Technology Development	401	219,401	998	193,551	96,950	0	0	36,099	547,401	0	547,401
6	Solar Water Heating w/ EM	0	30,939	0	2,442	607	0	116,544	1,386	151,918	0	151,918
7	Research and Demonstration	0	30,015	339	37,826	15,000	0	0	4,646	87,826	0	87,826
8	Solar Water Heat Low Income Res Cust	0	18,739	325	5,762	18	0	109,338	1,397	135,579	0	135,579
9	Photovoltaic for Schools Pilot	0	42,805	0	7,355	5,744	1,397	1,551,064	11,190	1,619,556	0	1,619,556
10	Residential Solar Photovoltaic	0	113,821	646	3,334	38	0	2,642,146	9,415	2,769,399	0	2,769,399
11	Commercial Solar Photovoltaic	0	33,144	0	6,461	9	0	1,393,401	1,783	1,434,798	0	1,434,798
12	Florida Custom Incentive Program	0	53,552	253	42,928	29	0	85,226	1,376	183,364	0	183,364
13	Interruptible Service	20,021	60,591	1,824	4,949	39,832	0	30,405,560	5,205	30,537,983	0	30,537,983
14	Curtaillable Service	0	0	0	0	0	0	1,451,275	0	1,451,275	0	1,451,275
15	Residential Energy Mgt	11,422,584	1,174,873	25,152	2,577,218	2,239,643	507,105	23,770,137	83,270	41,799,983	0	41,799,983
16	Commercial Energy Mgt	0	174	0	0	0	0	562,584	0	562,758	0	562,758
17	Low Income	0	112,751	0	0	0	30,954	110,327	9,781	263,812	0	263,812
18	Standby Generation	85,155	115,184	7,326	16,102	49,936	0	6,300,488	9,873	6,584,065	0	6,584,065
19	Qualifying Facility	0	817,886	7,518	13,813	1,022	0	0	16,325	856,564	0	856,564
20	Renewable Energy Saver	0	0	0	0	0	0	0	0	0	0	0
21	Neighborhood Energy Saver	0	209,185	767	245,022	13,294	44,378	803,459	28,489	1,344,592	0	1,344,592
22	Conservation Program Admin	2,630	3,205,870	79,169	658,444	228,950	0	0	178,862	4,353,926	0	4,353,926
23	Total All Programs	11,574,657	12,358,231	256,919	4,180,936	3,200,141	841,155	77,639,838	606,277	110,658,154	0	110,658,154

\*\* Certain schedules may not foot/crossfoot due to rounding of decimals in files.

Duke Energy Florida, LLC

Actual Conservation Program Costs by Month  
For the Period January 2015 - December 2015

Line No.	Program	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Home Energy Check	238,273	264,790	272,409	257,322	286,957	279,944	256,878	279,069	286,550	292,593	271,635	460,596	3,447,016
2	Residential Incentive (HEI & New Const)	681,943	719,519	733,735	833,483	871,733	629,516	644,761	668,558	629,682	446,411	719,706	830,064	8,409,111
3	Business Energy Check	31,085	52,044	42,942	70,149	40,121	54,750	41,706	43,423	78,727	77,860	38,072	255,703	826,584
4	Better Business (incl. C/I New Const)	113,179	143,069	337,712	130,865	191,642	307,115	286,142	540,676	(131,897)	341,527	160,324	786,430	3,206,784
5	Technology Development	52,547	46,256	5,484	(35,895)	7,079	12,060	10,192	21,093	19,283	24,677	13,246	31,011	207,033
6	Solar Water Heating w/ EM	18,923	14,709	17,103	18,776	7,202	13,535	15,032	19,509	15,264	30,462	10,597	8,530	189,643
7	Research and Demonstration	554	0	0	186	16,336	56	378	2,605	620	1,940	1,563	3,069	27,306
8	Solar Water Heat Low Income Res Cust	2,783	1,279	9,609	1,553	2,544	1,990	1,914	2,150	2,195	8,942	9,013	68,795	112,769
9	Photovoltaic for Schools Pilot	(136,498)	7,487	4,950	2,382	3,853	356,980	4,238	3,986	3,939	35,274	2,709	714,098	1,003,397
10	Residential Solar Photovoltaic	7,452	12,149	12,577	100,907	402,396	993,589	582,505	223,426	124,623	20,522	237,483	78,116	2,795,745
11	Commercial Solar Photovoltaic	1,640	2,865	3,604	3,041	3,348	22,863	299,664	78,138	371,901	201,007	213,799	219,527	1,421,396
12	Florida Custom Incentive Program	4,151	6,083	4,645	4,613	4,362	6,679	3,407	9,760	3,853	3,936	3,041	3,292	57,824
13	Interruptible Service	2,424,405	2,504,077	2,533,679	2,547,331	2,480,177	2,642,750	2,727,694	2,654,051	2,660,931	2,552,479	2,711,077	2,999,466	31,438,116
14	Curtable Service	99,160	105,125	153,273	152,172	102,946	123,484	187,061	255,828	152,296	197,989	149,845	119,380	1,798,558
15	Residential Energy Mgt	3,334,499	3,384,004	3,589,633	2,644,083	2,755,898	3,124,076	3,224,526	3,195,949	3,323,121	3,176,900	3,760,843	3,832,615	39,346,147
16	Commercial Energy Mgt	26,166	58,771	63,173	64,262	50,384	18,710	30,531	77,305	48,075	49,630	19,868	42,764	549,639
17	Low Income	32,843	25,161	21,544	23,604	11,453	10,418	9,746	13,940	11,465	18,272	23,901	25,300	227,648
18	Standby Generation	530,562	547,554	530,034	597,679	595,463	628,757	657,848	671,294	639,751	603,908	660,217	588,697	7,251,763
19	Qualifying Facility	69,463	69,696	74,822	71,374	70,338	71,562	69,754	72,154	73,219	76,775	76,415	44,763	840,334
20	Renewable Energy Saver	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Neighborhood Energy Saver	45,064	19,706	21,553	57,126	41,207	440,204	(98,836)	307,457	(20,448)	188,808	110,246	116,193	1,228,280
22	Conservation Program Admin	341,701	289,894	476,145	303,632	334,793	432,113	416,492	373,049	800,586	484,280	647,376	(830,012)	4,070,047
23	Total All Programs	7,919,895	8,274,237	8,908,625	7,848,645	8,280,231	10,171,150	9,371,636	9,513,421	9,093,736	8,834,191	9,840,976	10,398,397	108,455,141
24	Less: Base Rate Recovery	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Net Recoverable	7,919,895	8,274,237	8,908,625	7,848,645	8,280,231	10,171,150	9,371,636	9,513,421	9,093,736	8,834,191	9,840,976	10,398,397	108,455,141

\* Gross expenditures only. Audit program revenues are accounted for in calculation of true-up schedule CT-3, Page 2 of 5.

\*\* Certain schedules may not foot/crossfoot due to rounding of decimals in files.

Duke Energy Florida, LLC  
Energy Conservation Adjustment  
True-Up Calculation  
For the Period January 2015 - December 2015

Line No.	January	February	March	April	May	June	July	August	September	October	November	December	Total for The Period
1 Other Conservation Revenues	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Conservation Clause Revenues	6,253,625	6,326,453	6,819,605	6,820,652	7,323,469	8,325,548	8,752,884	8,789,431	8,721,222	7,607,970	7,812,082	6,735,064	90,288,006
3 Total Revenues	6,253,625	6,326,453	6,819,605	6,820,652	7,323,469	8,325,548	8,752,884	8,789,431	8,721,222	7,607,970	7,812,082	6,735,064	90,288,006
4 Prior Period True-Up Over/(Under) Recovery	(24,443,628)	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	24,443,628
5 Conservation Revenues Applicable to Period	8,290,594	8,363,422	8,856,574	8,857,621	9,360,438	10,362,517	10,789,853	10,826,400	10,758,191	9,644,939	9,849,051	8,772,033	114,731,634
6 Conservation Expenses (CT-3, Page 1 of 5, Line 23)	7,919,895	8,274,237	8,908,625	7,848,645	8,280,231	10,171,150	9,371,636	9,513,421	9,093,736	8,834,191	9,840,976	10,398,397	108,455,141
7 True-Up This Period (Over)/Under	(370,699)	(89,185)	52,051	(1,008,975)	(1,080,207)	(191,367)	(1,418,217)	(1,312,979)	(1,664,455)	(810,749)	(8,075)	1,626,364	(6,276,493)
8 Current Period Interest	(1,968)	(1,726)	(1,484)	(1,139)	(1,149)	(1,188)	(1,157)	(1,278)	(1,339)	(1,312)	(1,234)	(1,861)	(16,835)
9 Audit Adjustments	0	0	0	0	0	0	0	0	0	0	0	0	0
10 True-Up & Interest Provisions Beginning of Period (Over)/Under	(24,443,628)	(22,779,326)	(20,833,268)	(18,745,732)	(17,718,877)	(16,763,264)	(14,918,850)	(14,301,256)	(13,578,543)	(13,207,369)	(11,982,460)	(9,954,800)	(24,443,628)
11 Prior True-Up Refunded/(Collected)	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	2,036,969	24,443,628
12 End of Period Net True-Up	(22,779,326)	(20,833,268)	(18,745,732)	(17,718,877)	(16,763,264)	(14,918,850)	(14,301,255.51)	(13,578,543)	(13,207,369)	(11,982,460)	(9,954,800)	(6,293,328)	(6,293,328)

\*\* Certain schedules may not foot/crossfoot due to rounding of decimals in files.

Duke Energy Florida, LLC  
Calculation of Interest Provision  
For the Period January 2015 - December 2015

Line No.	January	February	March	April	May	June	July	August	September	October	November	December	Total for The Period
1 Beginning True-Up Amount (CT-3, Page 2, Line 10)	(24,443,628)	(22,779,326)	(20,833,268)	(18,745,732)	(17,718,877)	(16,763,264)	(14,918,850)	(14,301,256)	(13,578,543)	(13,207,369)	(11,982,460)	(9,954,800)	
2 Ending True-Up Amount Before Interest	(22,777,358)	(20,831,542)	(18,744,248)	(17,717,738)	(16,762,115)	(14,917,662)	(14,300,099)	(13,577,265)	(13,206,030)	(11,981,148)	(9,953,566)	(6,291,467)	
3 Total Beginning & Ending True-Up	(47,220,986)	(43,610,868)	(39,577,516)	(36,463,470)	(34,480,992)	(31,680,926)	(29,218,949)	(27,878,521)	(26,784,573)	(25,188,517)	(21,936,026)	(16,246,267)	
4 Average True-Up Amount (50% of Line 3)	(23,610,493)	(21,805,434)	(19,788,758)	(18,231,735)	(17,240,496)	(15,840,463)	(14,609,474)	(13,939,261)	(13,392,287)	(12,594,259)	(10,968,013)	(8,123,134)	
5 Interest Rate: First Day Reporting Business Month	0.10%	0.10%	0.09%	0.09%	0.06%	0.10%	0.08%	0.11%	0.11%	0.13%	0.12%	0.15%	
6 Interest Rate: First Day subsequent Business Month	0.10%	0.09%	0.09%	0.06%	0.10%	0.08%	0.11%	0.11%	0.13%	0.12%	0.15%	0.40%	
7 Total (Line 5 + Line 6)	0.20%	0.19%	0.18%	0.15%	0.16%	0.18%	0.19%	0.22%	0.24%	0.25%	0.27%	0.55%	
8 Average Interest Rate (50% of Line 7)	0.10%	0.10%	0.09%	0.08%	0.08%	0.09%	0.10%	0.11%	0.12%	0.13%	0.14%	0.28%	
9 Interest Provision (Line 4 * Line 8) / 12	(1,968)	(1,726)	(1,484)	(1,139)	(1,149)	(1,188)	(1,157)	(1,278)	(1,339)	(1,312)	(1,234)	(1,862)	(16,836)

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Duke Energy Florida, LLC  
 Conservation Account Numbers  
 For the Period January 2015 - December 2015

Line No.	Account	Product	Program Title
1	0908000	NRBBUS	Better Business
1	0909000	NRBBUS	Better Business (Advertising)
1	0403002	NRBBUS	Better Business (Equipment Depreciation)
2	0908000	NEWCON	Residential New Construction
2	0909000	NEWCON	Residential New Construction (Advertising)
3	0908000	SSHEI	Home Energy Improvement
3	0909000	SSHEI	Home Energy Improvement (Advertising)
3	0403002	SSHEI	Home Energy Improvement (Equipment Depreciation)
4	0908000	NRBNC	Commercial / Industrial New Construction
5	0908000	HEHC	Home Energy Check
5	0909000	HEHC	Home Energy Check (Advertising)
5	0403002	HEHC	Home Energy Check (Equipment Depreciation)
6	0908000	WZELEC	Low Income Weatherization Asst
6	0909000	WZELEC	Low Income Weatherization Asst (Advertising)
7	0908000	SOWHRD	Renewable Energy Saver
8	0908000	HWLI	Neighborhood Energy Saver
8	0909000	HWLI	Neighborhood Energy Saver (Advertising)
9	0908000	NRAOS	Business Energy Check
9	0909000	NRAOS	Business Energy Check (Advertising)
9	0403002	NRAOS	Business Energy Check (Equipment Depreciation)
10	0908000	PPCOGN	Qualifying Facility
10	0908000	PPCOGN	Qualifying Facility - COGEN contract maintenance
11	0908000	NRPRSC	Innovation Incentive
12	0908000	TECDEV	Technology Development
12	0908000	TECDEV	Technology Development (Energy Efficiency Research)
12	0403002	TECDEV	Technology Development (Equipment Depreciation)
13	0908000	STBGEN	Standby Generation
13	0403002	STBGEN	Standby Generation (Equipment Depreciation)
14	0908000	IRRSVC	Interruptible Service
14	0403002	IRRSVC	Interruptible Service (Equipment Depreciation)
15	0908000	PWRSHR	Curtable Service

Duke Energy Florida, LLC  
Conservation Account Numbers  
FOR THE PERIOD JANUARY 2015 THROUGH DECEMBER 2015

Line No.	Account	Product	Program Title
16	0908000	PWRMGR	Energy Management - Residential
16	0908002	PWRMGR	Energy Management - Residential (Amortization of Load Mgmt Switches)
16	0909000	PWRMGR	Energy Management - Residential (Advertising)
16	0403002	PWRMGR	Energy Management - Residential (Equipment Depreciation)
16	0908000	20078837	Other accounts included with Energy Management - Residential (SG DLC Switch Uplift)
16	0909000	20078837	Other accounts included with Energy Management - Residential (SG DLC Switch Uplift)
16	0908000	20078851	Other accounts included with Energy Management - Residential (PEF NAN-AMI)
16	0908000	20078944	Other accounts included with Energy Management - Residential (PEF ODS)
16	0908000	20078945	Other accounts included with Energy Management - Residential (NAN Telecom)
16	0908000	20079302	Other accounts included with Energy Management - Residential (NAN APP DEV)
16	0908000	20088588	Other accounts included with Energy Management - Residential (PEF LMS)
16	0908000	20091753	Other accounts included with Energy Management - Residential (PEF Pole Make Ready)
16	0908000	20091844	Other accounts included with Energy Management - Residential (NAN Telecom S1)
16	0908000	20091884	Other accounts included with Energy Management - Residential (NAN Telecom S4)
16	0908000	20091885	Other accounts included with Energy Management - Residential (NAN Telecom S5)
16	0908000	20091886	Other accounts included with Energy Management - Residential (NAN Telecom S6)
16	0908000	20091887	Other accounts included with Energy Management - Residential (NAN Telecom S7)
16	0908000	20091888	Other accounts included with Energy Management - Residential (NAN Telecom S8)
16	0908000	20092701	Other accounts included with Energy Management - Residential (PEF LLC Telecom)
16	0908000	20103953	Other accounts included with Energy Management - Residential (DEF PLAN B RDR)
16	0908000	20103955	Other accounts included with Energy Management - Residential (PEF PLAN B LMS)
16	0908000	20103959	Other accounts included with Energy Management - Residential (PEF PLAN B DLC TELECOM)
16	0908000	SGFRDRPSO	Other accounts included with Energy Management - Residential (SG DEF RDR Pre Scale Deployment)
16	0908000	SGFRDRSSO	Other accounts included with Energy Management - Residential (SG DEF RDR Switch Selection)
16	0908000	PWRMGR	Other accounts included with Energy Management - Residential (Switch installation)
17	0908000	COMLM	Energy Management - Commercial
18	0908000	NOPROD	Conservation Program Admin
18	0909000	NOPROD	Conservation Program Admin (Advertising)
18	0403002	NOPROD	Conservation Program Admin (Equipment Depreciation)
18	0908000	NOPROD	Other accounts included with Conservation Program Admin (ECCR Maintenance)
18	0908000	NOPROD	Other accounts included with Conservation Program Admin (ECCR Planning)
19	0908000	PVWHEM	Solar Water Heating w/EM
20	0908000	DSMRD	Research & Demonstration
21	0908000	PVWHLI	Solar Water Heat Low Income Res Cust
22	0908000	PVSCHP	Photovoltaic for Schools Pilot
23	0908000	PVRES	Residential Solar Photovoltaic
23	0908000	PVRES	Residential Solar Photovoltaic - CSS Input
24	0908000	PV	Commercial Solar Photovoltaic

Duke Energy Florida, LLC

Schedule of Capital Investment, Depreciation & Return  
For the Period January 2015 - December 2015

Line No.	Beginning Balance	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>1 Conservation Program Admin</b>														
2 Investments		0	0	0	0	0	0	0	0	0	0	0	0	0
3 Retirements		0	0	0	0	31,366	0	0	0	0	0	0	0	31,366
4 Depreciation Base		31,366	31,366	31,366	31,366	15,683	0	0	0	0	0	0	0	
5														
6 Depreciation Expense		523	523	523	523	484	0	0	0	0	0	0	0	2,576
7														
8 Cumulative Net investment	31,366	31,366	31,366	31,366	31,366	0	0	0	0	0	0	0	0	0
9 Less: Accumulated Net Depreciation	28,790	29,313	29,836	30,359	30,882	0	0	0	0	0	0	0	0	0
10 Net Investment	2,576	2,053	1,530	1,007	484	0	0	0	0	0	0	0	0	0
11 Average Investment		2,314	1,791	1,268	745	242	0	0	0	0	0	0	0	
12 Return on Avg Investment		14	11	7	4	1	0	0	0	0	0	0	0	37
13														
14 Return Requirements		20	16	10	6	2	0	0	0	0	0	0	0	54
15														
16 Program Total		543	539	533	529	486	0	0	0	0	0	0	0	2,630
17														
<b>18 Interruptible Service</b>														
19 Investments		0	0	0	0	0	0	0	0	0	0	0	0	0
20 Retirements		0	0	(6,097)	0	0	0	0	0	0	0	0	0	(6,097)
21 Depreciation Base		79,372	79,372	82,421	85,469	85,469	85,469	85,469	85,469	85,469	85,469	85,469	85,469	
22														
23 Depreciation Expense		1,323	1,323	1,374	1,424	1,424	1,424	1,424	1,424	1,424	1,424	1,424	1,424	16,836
24														
25 Cumulative Net investment	79,372	79,372	79,372	85,469	85,469	85,469	85,469	85,469	85,469	85,469	85,469	85,469	85,469	85,469
26 Less: Accumulated Net Depreciation	56,777	58,100	59,423	66,894	68,318	69,742	71,166	72,590	74,014	75,438	76,862	78,286	79,710	79,710
27 Net Investment	22,595	21,272	19,949	18,575	17,151	15,727	14,303	12,879	11,455	10,031	8,607	7,183	5,759	5,759
28 Average Investment		21,933	20,610	19,262	17,863	16,439	15,015	13,591	12,167	10,743	9,319	7,895	6,471	
29 Return on Avg Investment		130	121	114	106	97	89	81	73	64	56	47	39	1,017
30														
31 Return Requirements		188	176	165	154	141	129	117	106	93	81	68	57	1,475
32														
33 Program Total		1,511	1,499	1,539	1,578	1,565	1,553	1,541	1,530	1,517	1,505	1,492	1,481	18,311
34														
<b>35 Business Energy Check</b>														
36 Investments		0	0	0	0	0	0	0	0	0	0	0	0	0
37 Retirements		0	0	0	0	0	0	0	0	0	0	0	3,085	3,085
38 Depreciation Base		72,499	72,499	72,499	72,499	72,499	72,499	72,499	72,499	72,499	72,499	72,499	70,957	
39														
40 Depreciation Expense		1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,183	14,471
41														
42 Cumulative Net investment	72,499	72,499	72,499	72,499	72,499	72,499	72,499	72,499	72,499	72,499	72,499	72,499	69,415	69,415
43 Less: Accumulated Net Depreciation	26,194	27,402	28,610	29,818	31,026	32,234	33,442	34,650	35,858	37,066	38,274	39,482	37,580	37,580
44 Net Investment	46,305	45,097	43,889	42,681	41,473	40,265	39,057	37,849	36,641	35,433	34,225	33,017	31,835	31,835
45 Average Investment		45,701	44,493	43,285	42,077	40,869	39,661	38,453	37,245	36,037	34,829	33,621	32,426	
46 Return on Avg Investment		269	262	255	248	241	234	229	222	215	208	200	193	2,776
47														
48 Return Requirements		390	380	370	360	350	340	332	322	312	302	290	280	4,028
49														
50 Program Total		1,598	1,588	1,578	1,568	1,558	1,548	1,540	1,530	1,520	1,510	1,498	1,463	18,499

Notes:

- Jan-Jun return on average investment is calculated using an annual rate of 7.08% based on May 2014 DEF Surveillance Report capital structure & cost rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Docket 120007-EI.
- Jul-Dec return on average investment is calculated using an annual rate of 7.15% based on May 2015 DEF Surveillance Report capital structure & costs rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Docket 120007-EI.
- Return Requirements are calculated using a combined statutory tax rate of 38.575%.

Duke Energy Florida, LLC

Schedule of Capital Investment, Depreciation & Return  
For the Period January 2015 - December 2015

Line No.	Beginning Balance	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>1 Home Energy Check</b>														
2 Investments		0	0	0	0	0	0	0	0	0	0	0	0	0
3 Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
4 Depreciation Base		82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462	
5														
6 Depreciation Expense		983	983	983	983	983	983	983	983	983	983	983	983	11,796
7														
8 Cumulative Net investment	82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462	82,462
9 Less: Accumulated Net Depreciation	1,966	2,949	3,932	4,915	5,898	6,881	7,864	8,847	9,830	10,813	11,796	12,779	13,762	13,762
10 Net Investment	80,496	79,513	78,530	77,547	76,564	75,581	74,598	73,615	72,632	71,649	70,666	69,683	68,700	68,700
11 Average Investment		80,004	79,021	78,038	77,055	76,072	75,089	74,106	73,123	72,140	71,157	70,174	69,191	
12 Return on Avg Investment		472	467	460	454	449	443	441	435	430	424	417	412	5,304
13														
14 Return Requirements		685	677	667	659	651	643	639	631	623	615	605	597	7,692
15														
16 Program Total		1,668	1,660	1,650	1,642	1,634	1,626	1,622	1,614	1,606	1,598	1,588	1,580	19,488
17														
<b>18 Residential Incentive (HEI &amp; New Const)</b>														
19 Investments		0	0	0	0	0	0	0	0	0	0	0	0	0
20 Retirements		28,783	0	0	0	0	0	0	0	0	0	0	0	28,783
21 Depreciation Base		14,392	0	0	0	0	0	0	0	0	0	0	0	
22														
23 Depreciation Expense		266	0	0	0	0	0	0	0	0	0	0	0	266
24														
25 Cumulative Net investment	28,783	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Less: Accumulated Net Depreciation	28,517	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Net Investment	267	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Average Investment		133	0	0	0	0	0	0	0	0	0	0	0	
29 Return on Avg Investment		1	0	0	0	0	0	0	0	0	0	0	0	1
30														
31 Return Requirements		2	0	0	0	0	0	0	0	0	0	0	0	2
32														
33 Program Total		268	0	0	0	0	0	0	0	0	0	0	0	268
34														
<b>35 Load Management Switches</b>														
36 Investments		39,150	10,620	17,159	91,469	483	3,325	146,108	409,980	366,988	518,771	314,391	608,260	2,526,706
37 Retirements		65,340	82,143	120,805	176,597	153,708	121,741	216,004	262,314	320,058	115,125	276,163	155,402	2,065,400
38 Investments Booked to CWIP		10,874	3,547	63,976	205,345	289,523	585,142	119,868	21,271	20,860	17,164	16,827	6,878	1,361,274
39 Closing to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
40 Depreciation Base		7,238,596	7,189,740	7,102,155	7,007,768	6,888,592	6,752,771	6,658,616	6,697,501	6,794,799	7,020,087	7,241,024	7,486,567	
41														
42 Amortization Expense		120,644	119,829	118,369	116,796	114,810	112,546	110,977	111,625	113,247	117,002	120,684	124,776	1,401,305
43														
44 Cumulative Net investment	7,251,691	7,225,501	7,153,978	7,050,332	6,965,204	6,811,980	6,693,563	6,623,668	6,771,334	6,818,264	7,221,910	7,260,138	7,712,997	7,712,997
45 Less: Accumulated Net Depreciation	4,766,090	4,821,394	4,859,081	4,856,644	4,796,843	4,757,945	4,748,750	4,643,723	4,493,034	4,286,223	4,288,100	4,132,621	4,101,995	4,101,995
46 Cumulative CWIP	7,842,472	7,853,345	7,856,892	7,920,867	8,126,212	8,415,736	9,000,878	9,120,746	9,142,017	9,162,877	9,180,041	9,196,868	9,203,746	9,203,746
47 Net Investment	10,328,072	10,257,452	10,151,790	10,114,555	10,294,573	10,469,770	10,945,691	11,100,691	11,420,317	11,694,918	12,113,851	12,324,385	12,814,747	12,814,747
48 Average Investment		10,292,762	10,204,621	10,133,172	10,204,564	10,382,172	10,707,731	11,023,191	11,260,504	11,557,617	11,904,385	12,219,118	12,569,566	
49 Return on Avg Investment		60,727	60,207	59,786	60,207	61,255	63,176	65,642	67,055	68,824	70,890	72,764	74,851	785,384
50														
51 Return Requirements		88,090	87,336	86,725	87,336	88,856	91,643	95,176	97,225	99,790	102,786	105,503	108,529	1,138,995
52														
53 Program Total		208,734	207,165	205,094	204,132	203,666	204,189	206,153	208,850	213,037	219,788	226,187	233,305	2,540,300

Notes:

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Duke Energy Florida, LLC

Schedule of Capital Investment, Depreciation & Return  
For the Period January 2015 - December 2015

Line No.	Beginning Balance	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>1 Technology Development</b>														
2 Investments		0	0	0	0	0	0	0	0	0	0	0	0	0
3 Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
4 Depreciation Base		13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	
5														
6 Depreciation Expense		221	178	0	0	0	0	0	0	0	0	0	0	399
7														
8 Cumulative Net investment	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247
9 Less: Accumulated Net Depreciation	12,848	13,069	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247	13,247
10 Net Investment	399	178	0	0	0	0	0	0	0	0	0	0	0	0
11 Average Investment		289	89	0	0	0	0	0	0	0	0	0	0	
12 Return on Avg Investment		1	0	0	0	0	0	0	0	0	0	0	0	1
13														
14 Return Requirements		2	0	0	0	0	0	0	0	0	0	0	0	2
15														
16 Program Total		223	178	0	0	0	0	0	0	0	0	0	0	401
17														
<b>18 Standby Generation</b>														
19 Investments		0	0	0	0	0	0	0	0	0	0	0	0	0
20 Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
21 Depreciation Base		366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050	
22														
23 Depreciation Expense		6,101	6,101	6,101	6,101	6,101	6,101	6,101	6,101	6,101	6,101	6,101	6,101	73,212
24														
25 Cumulative Net investment	366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050	366,050
26 Less: Accumulated Net Depreciation	213,590	219,691	225,792	231,893	237,994	244,095	250,196	256,297	262,398	268,499	274,600	280,701	286,802	286,802
27 Net Investment	152,460	146,359	140,258	134,157	128,056	121,955	115,854	109,753	103,652	97,551	91,450	85,349	79,248	79,248
28 Average Investment		149,410	143,309	137,208	131,107	125,006	118,905	112,804	106,703	100,602	94,501	88,400	82,299	
29 Return on Avg Investment		881	846	810	774	737	701	671	635	599	563	526	490	8,233
30														
31 Return Requirements		1,278	1,227	1,175	1,123	1,069	1,017	973	921	868	816	763	710	11,940
32														
33 Program Total		7,379	7,328	7,276	7,224	7,170	7,118	7,074	7,022	6,969	6,917	6,864	6,811	85,152
34														
<b>35 Better Business</b>														
36 Investments		0	0	0	0	0	0	0	0	0	0	0	0	0
37 Retirements		24,059	0	0	0	0	0	0	0	0	0	16,976	0	41,035
38 Depreciation Base		39,825	27,796	27,796	27,796	27,796	27,796	27,796	27,796	27,796	27,796	19,308	10,820	
39														
40 Depreciation Expense		664	463	463	463	463	463	463	463	463	463	322	180	5,333
41														
42 Cumulative Net investment	51,855	27,796	27,796	27,796	27,796	27,796	27,796	27,796	27,796	27,796	27,796	10,820	10,820	10,820
43 Less: Accumulated Net Depreciation	46,217	22,822	23,285	23,748	24,211	24,674	25,137	25,600	26,063	26,526	26,989	10,335	10,515	10,515
44 Net Investment	5,638	4,974	4,511	4,048	3,585	3,122	2,659	2,196	1,733	1,270	807	485	305	305
45 Average Investment		5,306	4,742	4,279	3,816	3,353	2,890	2,427	1,964	1,501	1,038	646	395	
46 Return on Avg Investment		31	28	25	22	20	17	14	11	9	6	4	3	190
47														
48 Return Requirements		45	41	36	32	29	25	20	16	13	9	6	4	276
49														
50 Program Total		709	504	499	495	492	488	483	479	476	472	328	184	5,609

Notes:

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Duke Energy Florida, LLC

Schedule of Capital Investment, Depreciation & Return  
For the Period January 2015 - December 2015

Line No.	Beginning Balance	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>1 Residential Energy Management - Summary (Itemized below) (D)</b>														
2		0	0	0	0	0	0	0	0	0	0	0	0	0
3		33,316	34,571	0	0	0	0	0	0	0	0	0	0	67,887
4		491,142	148,347	353,827	512,014	452,307	284,081	709,045	190,000	295,149	170,046	168,964	360,868	4,135,789
5		0	0	0	(88,254)	0	0	0	0	0	0	0	0	0
6		39,425,237	39,391,294	39,374,008	39,329,881	39,285,754	39,285,754	39,285,754	39,285,754	39,285,754	39,285,754	39,285,754	39,285,754	
7														
8		342,326	341,760	341,472	341,472	309,921	340,420	340,420	340,420	340,420	340,420	340,420	340,420	4,059,891
9														
10	39,441,894	39,408,578	39,374,007	39,374,007	39,285,753	39,285,753	39,285,753	39,285,753	39,285,753	39,285,753	39,285,753	39,285,753	39,285,754	39,285,754
11	5,719,282	6,028,292	6,335,481	6,676,953	7,018,425	7,328,346	7,668,766	8,009,186	8,349,606	8,690,026	9,030,446	9,370,866	9,711,286	9,711,286
12	7,377,805	7,868,946	8,017,293	8,371,121	8,971,389	9,423,696	9,707,778	10,416,822	10,606,822	10,901,970	11,072,016	11,240,981	11,601,848	11,601,848
13	41,100,417	41,249,233	41,055,819	41,068,175	41,238,717	41,381,104	41,324,765	41,693,390	41,542,969	41,497,698	41,327,324	41,155,868	41,176,316	41,176,316
14		41,174,824	41,152,526	41,061,997	41,153,446	41,309,910	41,352,934	41,509,077	41,618,179	41,520,334	41,412,511	41,241,596	41,166,092	
15		242,931	242,801	242,266	242,805	243,728	243,983	247,184	247,833	247,249	246,607	245,590	245,139	2,938,116
16														
17		352,395	352,205	351,429	352,212	353,550	353,922	358,401	359,341	358,494	357,564	356,090	355,435	4,261,038
18														
19		694,721	693,965	692,901	693,684	663,471	694,342	698,821	699,761	698,914	697,984	696,510	695,855	8,320,929
20														
<b>21 Residential Energy Management - Smartgrid Hardware for ODS, LMS, APPDEV &amp; TELECOM (D)</b>														
22		0	0	0	0	0	0	0	0	0	0	0	0	0
23		0	0	0	0	0	0	0	0	0	0	0	0	0
24		0	0	0	0	0	0	0	0	0	0	0	0	0
25		0	0	0	(88,254)	0	0	0	0	0	0	0	0	0
26		10,205,812	10,205,812	10,205,812	10,161,685	10,117,558	10,117,558	10,117,558	10,117,558	10,117,558	10,117,558	10,117,558	10,117,558	
27														
28		118,876	118,876	118,876	118,876	87,325	117,824	117,824	117,824	117,824	117,824	117,824	117,824	1,387,597
29														
30	10,205,812	10,205,812	10,205,812	10,205,812	10,117,558	10,117,558	10,117,558	10,117,558	10,117,558	10,117,558	10,117,558	10,117,558	10,117,558	10,117,558
31	1,609,245	1,728,121	1,846,997	1,965,873	2,084,749	2,172,074	2,289,898	2,407,722	2,525,546	2,643,370	2,761,194	2,879,018	2,996,842	2,996,842
32	381,579	381,579	381,579	381,579	469,833	469,833	469,833	469,833	469,833	469,833	469,833	469,833	469,833	469,833
33	8,978,146	8,859,270	8,740,394	8,621,518	8,502,642	8,415,317	8,297,493	8,179,669	8,061,845	7,944,021	7,826,197	7,708,373	7,590,549	7,590,549
34		8,918,708	8,799,832	8,680,956	8,562,080	8,458,980	8,356,405	8,238,581	8,120,757	8,002,933	7,885,109	7,767,285	7,649,461	
35		52,621	51,919	51,218	50,516	49,908	49,303	49,060	48,358	47,657	46,955	46,253	45,552	589,320
36														
37		76,332	75,313	74,296	73,279	72,396	71,519	71,134	70,116	69,099	68,082	67,064	66,047	854,677
38														
39		195,208	194,189	193,172	192,155	159,721	189,343	188,958	187,940	186,923	185,906	184,888	183,871	2,242,274
40														
<b>41 Residential Energy Management - Smartgrid Software for ODS, LMS, APPDEV (D)</b>														
42		0	0	0	0	0	0	0	0	0	0	0	0	0
43		0	0	0	0	0	0	0	0	0	0	0	0	0
44		491,142	148,347	353,827	512,014	452,307	284,081	709,045	190,000	295,149	170,046	168,964	360,868	4,135,789
45		0	0	0	0	0	0	0	0	0	0	0	0	0
46		6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	
47														
48	5 yr Property	108,747	108,747	108,747	108,747	108,747	108,747	108,747	108,747	108,747	108,747	108,747	108,747	1,304,964
49														
50	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778	6,524,778
51	1,472,258	1,581,005	1,689,752	1,798,499	1,907,246	2,015,993	2,124,740	2,233,487	2,342,234	2,450,981	2,559,728	2,668,475	2,777,222	2,777,222
52	6,996,225	7,487,367	7,635,714	7,989,541	8,501,556	8,953,863	9,237,944	9,946,989	10,136,989	10,432,137	10,602,183	10,771,147	11,132,015	11,132,015
53	12,048,745	12,431,140	12,470,740	12,715,820	13,119,087	13,462,647	13,637,982	14,238,280	14,319,532	14,505,934	14,567,232	14,627,450	14,879,570.67	14,879,571
54		12,239,942	12,450,940	12,593,280	12,917,454	13,290,867	13,550,315	13,938,131	14,278,906	14,412,733	14,536,583	14,597,341	14,753,510	
55		72,215	73,461	74,300	76,213	78,416	79,947	83,001	85,030	85,826	86,564	86,926	87,855	969,754
56														
57		104,755	106,562	107,779	110,554	113,750	115,971	120,346	123,288	124,442	125,512	126,037	127,384	1,406,380
58														
59		213,502	215,309	216,526	219,301	222,497	224,718	229,093	232,035	233,189	234,259	234,784	236,131	2,711,344

Notes:

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For the Period January 2015 - December 2015

Line No.	Beginning Balance	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>1 Residential Energy Management - Smartgrid AMI Meters (D)</b>														
2		0	0	0	0	0	0	0	0	0	0	0	0	0
3		0	0	0	0	0	0	0	0	0	0	0	0	0
4		0	0	0	0	0	0	0	0	0	0	0	0	0
5		0	0	0	0	0	0	0	0	0	0	0	0	0
6		22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	
7														
8		112,142	112,142	112,142	112,142	112,142	112,142	112,142	112,142	112,142	112,142	112,142	112,142	1,345,704
9														
10		22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012	22,541,012
11		2,515,103	2,627,245	2,739,387	2,851,529	2,963,671	3,075,813	3,187,955	3,300,097	3,412,239	3,524,381	3,636,523	3,748,665	3,860,807
12		0	0	0	0	0	0	0	0	0	0	0	0	0
13		20,025,909	19,913,767	19,801,625	19,689,483	19,577,341	19,465,199	19,353,057	19,240,915	19,128,773	19,016,631	18,904,489	18,792,347	18,680,205
14			19,969,838	19,857,696	19,745,554	19,633,412	19,521,270	19,409,128	19,296,986	19,184,844	19,072,702	18,960,560	18,848,418	18,736,276
15			117,822	117,161	116,499	115,837	115,175	114,514	114,912	114,244	113,576	112,908	112,241	111,572
16														
17			170,912	169,953	168,993	168,033	167,072	166,114	166,615	165,646	164,678	163,709	162,742	161,772
18														
19			283,054	282,095	281,135	280,175	279,214	278,256	278,757	277,788	276,820	275,851	274,884	273,914
20														
<b>21 Residential Energy Management - Non-Smartgrid Residential Projects (D)</b>														
22		0	0	0	0	0	0	0	0	0	0	0	0	0
23		33,316	34,571	0	0	0	0	0	0	0	0	0	0	67,887
24		0	0	0	0	0	0	0	0	0	0	0	0	0
25		0	0	0	0	0	0	0	0	0	0	0	0	0
26		153,635	119,692	102,406	102,406	102,406	102,406	102,406	102,406	102,406	102,406	102,406	102,406	
27														
28		2,561	1,995	1,707	1,707	1,707	1,707	1,707	1,707	1,707	1,707	1,707	1,707	21,626
29														
30		170,293	136,977	102,406	102,406	102,406	102,406	102,406	102,406	102,406	102,406	102,406	102,406	102,406
31		122,676	91,921	59,345	61,052	62,759	64,466	66,173	67,880	69,587	71,294	73,001	74,708	76,415
32		0	0	0	0	0	0	0	0	0	0	0	0	0
33		47,617	45,056	43,061	41,354	39,647	37,940	36,233	34,526	32,819	31,112	29,405	27,698	25,991
34			46,336	44,058	42,207	40,500	38,793	37,086	35,379	33,672	31,965	30,258	28,551	26,845
35			273	260	249	239	229	219	211	201	190	180	170	160
36														
37			396	377	361	346	332	318	306	291	275	261	247	232
38														
39			2,957	2,372	2,068	2,053	2,039	2,025	2,013	1,998	1,982	1,968	1,954	1,939

Notes:

- Jan-Jun return on average investment is calculated using an annual rate of 7.08% based on May 2014 DEF Surveillance Report capital structure & cost rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Docket 120007-EI.
- Jul-Dec return on average investment is calculated using an annual rate of 7.15% based on May 2015 DEF Surveillance Report capital structure & costs rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Docket 120007-EI.
- Return Requirements are calculated using a combined statutory tax rate of 38.575%.

## Program Description and Progress

**Program Title:** Home Energy Check Program

**Program Description:** The Home Energy Check Program is a residential energy audit program that provides customers with an analysis of their energy consumption as well as educational information on how to reduce energy usage and save money. The audit provides Duke Energy Florida, LLC (DEF) an opportunity to promote and directly install cost-effective measures in customer homes, and educate and encourage customers to implement energy-saving practices. The Home Energy Check Program is the foundation for other residential Demand Side Management Programs and offers the following types of energy audits:

- Type 1: Free Walk-Through (computer assisted)
- Type 2: Customer Online (Internet Option)
- Type 3: Customer Phone Assisted
- Type 4: Home Energy Rating (BERS/HERS) Audit

The Home Energy Check Program provides residential customers with energy efficiency tips and examples of easily installed energy efficiency measures. The program promotes continued customer involvement by demonstrating sustainable and measurable reductions in energy usage through the implementation of low cost energy efficiency measures and energy saving recommendations. Participants in the program may receive a residential Energy Efficiency Kit that contains energy saving measures that can be easily installed and utilized by the customer. Contents of this kit are evaluated periodically and may change over time.

**Program Accomplishments - January 2015 - December 2015:**

30,901 customers participated in the Home Energy Check Program.

**Program Fiscal Expenditures - January 2015 - December 2015:**

Expenses for this program were \$3,447,016.

**Program Progress Summary:**

842,374 participants have participated in the Home Energy Check Program since inception. DEF will continue to use this program to inform customers about cost effective energy efficiency measures they can implement and incentives on home energy improvements for which they may be eligible.

## Program Description and Progress

**Program Title:** Residential Incentive Program

**Program Description:** The Residential Incentive Program provides incentives to customers for energy efficiency improvements for both existing and new homes. The Residential Incentive Program includes incentives for measures such as duct testing, duct repair, attic insulation, replacement windows, high efficiency heat pump replacing resistance heat, high efficiency heat pump replacing a heat pump, and newly constructed Energy Star homes.

**Program Accomplishments - January 2015 - December 2015:**

53,179 measures were implemented through this program resulting in a savings of 14.7 Summer MW's, 25.9 Winter MW's and 25.3 GWH's.

**Program Fiscal Expenditures - January 2015 - December 2015:**

Expenses for this program were \$8,409,111.

**Program Variance Explanation - January 2015 - December 2015:**

Incentives were \$642,124 lower than the 2015 Actual/Estimated Filing due to reduced participation and delays in project completions.

**Program Progress Summary:**

955,207 measures have been implemented through this program. This program will continue to be offered to residential customers to provide opportunities for improving the energy efficiency of existing and new homes.

## Program Description and Progress

**Program Title:** Neighborhood Energy Saver Program

**Program Description:** DEF's Neighborhood Energy Saver program is designed to assist customers in selected neighborhoods where approximately 50% of the households have incomes equal to or less than 200% of the poverty level established by the U.S. Government. DEF or a third party contractor directly installs energy conservation measures, identified through an energy assessment, in the customer homes to increase energy efficiency. Customers also receive a comprehensive package of energy education materials which inform them on ways to better manage their energy usage. The energy conservation measures are installed and energy efficiency education is provided at no cost to the participants.

**Program Accomplishments - January 2015 - December, 2015:**

39,940 energy efficiency measures were installed on 3,420 residential homes resulting in a savings of approximately 1.2 SMW's, 1.4 WMW's, and 3.8 GWH's.

**Program Fiscal Expenditures - January 2015 - December, 2015:**

Expenses for this program were \$1,228,280.

**Program Progress Summary:**

Since program inception, 24,111 participants have benefited from the Neighborhood Energy Saver Program. This program will continue to be offered to income eligible neighborhoods in DEF's service territory.

## Program Description and Progress

**Program Title:** Low-Income Weatherization Assistance Program

**Program Description:** The Low-Income Weatherization Assistance Program (LIWAP) is designed to integrate DEF's DSM program measures with assistance provided by the Florida Department of Economic Opportunity (DEO) and local weatherization providers to deliver energy efficiency measures to income eligible families. Through this partnership, DEF assists local weatherization agencies by providing energy education materials and financial incentives to weatherize the homes of low-income families.

**Program Accomplishments - January 2015 - December 2015:**

1,656 weatherization measures were installed on 337 residential homes.

**Program Fiscal Expenditures - January 2015 - December 2015:**

Expenses for this program were \$227,648.

**Program Progress Summary:**

21,338 measures have been implemented through this program. DEF participates in local, state-wide and national agency meetings to promote the delivery of this program. Meetings with weatherization and other low income agencies are conducted throughout DEF's territory to encourage customer participation in energy efficiency programs.

## Program Description and Progress

**Program Title:** Residential/Commercial Energy Management Program

**Program Description:** The Residential Energy Management Program is a voluntary program that provides the opportunity to reduce demand and potentially defer the need for additional MW's. This Program incorporates control of selected customer equipment to reduce system demand during winter and summer peak capacity periods and/or emergency conditions by temporarily interrupting selected customer appliances for specified periods of time. Residential customers have a choice of options and receive a credit on their monthly electric bills depending on the load control options they select and their monthly kWh usage. The Residential Energy Management Program provides approximately ~700 MW's of winter and ~384 MW's of summer peak load reduction.

The Commercial Energy Management Program was closed to new customers in July 2000. There are 63 participants remaining on the program.

**Program Accomplishments - January 2015 - December 2015:**

5,025 customers were added to the residential program. The commercial program is closed to new participants.

**Program Fiscal Expenditures - January 2015 - December 2015:**

Expenses for the Residential program were \$39,346,147. Expenses for the commercial program were \$549,639.

**Program Variance Explanation - January 2015 - December 2015:**

Total program expenses were approximately \$2.5M lower than the 2015 Actual/Estimated Filing due primarily to \$561k in lower Depreciation, Amortization & Return as a result of delayed in-service date for the new Load Management System software system; \$877K and \$950K favorable variances in Outside Services and Materials & Supplies, respectively, due to costs for new installs that were projected as O&M expenses versus capital; and \$871K in lower incentives due to milder weather and fewer new program participants than projected. These favorable variances were partially offset by higher payroll costs due to costs projected in Energy Conservation Administration versus directly to the program.

**Program Progress Summary:**

402,116 residential and 63 commercial customers participate in this program.



## Program Description and Progress

**Program Title:** Business Energy Check Program

**Program Description:** The Business Energy Check Program provides energy audits to commercial customers. These audits can be completed over the phone or at a customer's facility by a qualified DEF Energy Assessor. This program identifies and informs customers about cost effective energy saving measures that can be implemented at their facility. The Business Energy Check Program serves as the foundation for the Better Business Program.

**Program Accomplishments - January 2015 - December 2015:**  
1,486 customers participated in this program.

**Program Fiscal Expenditures - January 2015 - December 2015:**  
Expenses for this program were \$826,584.

**Program Progress Summary:**

40,958 non-residential customers have participated in the Business Energy Check Program since inception. This program will continue to educate and inform customers about cost effective energy efficiency improvements which can be implemented.

## Program Description and Progress

**Program Title:** Better Business Program

**Program Description:** This umbrella efficiency program provides incentives to existing commercial, industrial and governmental customers for heating, air conditioning, ceiling and roof insulation upgrades, duct leakage and repair, demand-control ventilation, cool roof coating, high efficiency energy recovery ventilation and HVAC optimization qualifying measures.

**Program Accomplishments - January 2015 - December 2015:**

1,030 measures were implemented under this program.

**Program Fiscal Expenditures - January 2015 - December 2015:**

Expenses for this program were \$3,206,784.

**Program Variance Explanation - January 2015 - December 2015:**

Payroll & Benefits were \$539,419 higher than the 2015 Actual/Estimated Filing due to costs projected as Energy Conservation Administration versus direct program expenses.

**Program Progress Summary:**

19,569 measures have been implemented through the Better Business Program.

## Program Description and Progress

**Program Title:** Florida Custom Incentive Program

**Program Description:** The Florida Custom Incentive Program is designed to encourage customers to make capital investments for energy efficiency measures which reduce peak KW and provide energy savings. This program provides incentives for individual custom projects which are cost effective, but not otherwise addressed through DEF's prescriptive programs. Examples of energy efficient technologies that would be considered under this program include, but are not limited to, new construction measures and new thermal energy storage systems.

**Program Accomplishments - January 2015 - December 2015:**

7 customers participated in the program resulting in a savings of 73 SMW's, 24 WMW's and .14 GWH's.

**Program Fiscal Expenditures - January 2015 - December 2015:**

Expenses for this program were \$57,824.

**Program Variance Explanation - January 2015 - December 2015:**

Program costs were \$125,540 less than projected due to delays in project completions and fewer custom projects than projected.

**Program Progress Summary:**

209 projects have received incentives through this program since inception. This program continues to target specialized customer specific energy efficiency measures not covered through DEF's prescriptive commercial programs.

## Program Description and Progress

**Program Title:** Standby Generation

**Program Description:** The Standby Generation Program is a demand control program that reduces DEF's system demand based on control of customer equipment. It is a voluntary program available to commercial and industrial customers who have on-site generation capability and are willing to reduce their DEF demand when necessary. This program is part of DEF's General Service Load Management-2 (GSLM-2) rate schedule.

**Program Accomplishments - January 2015 - December 2015:**

25 accounts were added to the program resulting in 20.6 MW's of load control..

**Program Fiscal Expenditures - January 2015 - December 2015:**

Expenses for this program were \$7,251,763.

**Program Variance Explanation - January 2015 - December 2015:**

Incentives were \$571,551 higher than the 2015 Actual/Estimated Filing due to the addition of 25 accounts versus 10 projected new accounts.

**Program Progress Summary:**

There were 283 accounts participating in this program in 2015.

## Program Description and Progress

**Program Title:** Interruptible Service Program

**Program Description:** The Interruptible Service Program is a direct load control program that reduces DEF's system demand at times of capacity shortage during peak or emergency conditions.

**Program Accomplishments - January 2015 - December 2015:**

2 accounts were added to the program.

**Program Fiscal Expenditures - January 2015 - December 2015:**

Expenses for this program were \$31,438,116.

**Program Variance Explanation - January 2015 - December 2015:**

Incentives were \$865,749 higher than the 2015 Actual/Estimated Filing due to more program participants than projected.

**Program Progress Summary:**

135 accounts currently participate in this program.

## Program Description and Progress

**Program Title:** Curtailable Service Program

**Program Description:** The Curtailable Service Program is an indirect load control program that reduces DEF's system demand at times of capacity shortage during peak or emergency conditions.

**Program Accomplishments - January 2015 - December 2015:**

No accounts were added to this program.

**Program Fiscal Expenditures - January 2015 - December 2015:**

Expenses for this program were \$1,798,558.

**Program Variance Explanation - January 2015 - December 2015:**

Program expenses were \$347,283 higher than the 2015 Actual/Estimated Filing due to higher customer usage resulting in higher incentive payments.

**Program Progress Summary:**

There were 4 accounts participating in this program in 2015.

## Program Description and Progress

**Program Title:** Solar Water Heating with Energy Management Program

**Program Description:** This pilot program provided a \$550 one-time upfront incentive to residential customers who installed a solar thermal water heating system along with monthly bill credits for participating in the Residential Energy Management Program. The customer's heating, air conditioning and water heating systems were required to be on the Residential Energy Management Program and the solar thermal system had to provide a minimum of 50% of the water heating load. The Solar Water Heating with Energy Management Program was implemented in 2011 along with a new online application process and continued to be offered in DEF's service territory through 2015.

**Program Accomplishments - January, 2015 - December, 2015:**

295 customers participated in the program.

**Program Fiscal Expenditures - January, 2015 - December, 2015:**

Expenses for this program were \$189,643.

**Program Variance Explanation - January 2015 - December 2015:**

Program expenses were \$37,725 higher than the 2015 Actual/Estimated Filing due to higher customer participation than projected.

**Program Progress Summary:**

This program was implemented in 2011 along with a new online application process. This program ended at year-end 2015.

## Program Description and Progress

**Program Title:** Solar Water Heating Low Income Residential Pilot

**Program Description:** This pilot program is a customer renewable energy measure designed to assist income eligible families with energy costs by incorporating a solar thermal water heating system in their residence while it is under construction. The solar thermal system is provided at no cost to non-profit builders or residential participants. This program was implemented in 2011 and continued through 2015.

**Program Accomplishments - January, 2015 - December, 2015:**

25 customers participated in this program.

**Program Fiscal Expenditures - January, 2015 - December, 2015:**

Expenses for this program were \$112,769.

**Program Progress Summary:**

This pilot program was implemented in 2011. This program ended at year-end 2015.



## Program Description and Progress

**Program Title:** Residential Solar Photovoltaic Pilot

**Program Description:** This pilot program provided incentives to residential customers to install new solar photovoltaic (PV) systems on their home. The pilot program included an annual reservation process for pre-approval to ensure incentive funds were available to participants. Participants were eligible to receive a rebate of \$2.00 per Watt of the PV dc power rating up to a \$20,000 maximum for installing a new PV system. This program was implemented in 2011 along with a new online application process and continued to be offered in DEF's service territory through 2015.

**Program Accomplishments - January, 2015 - December, 2015:**

154 customers participated in this program.

**Program Fiscal Expenditures - January, 2015 - December, 2015:**

Expenses for this program were \$2,795,745.

**Program Progress Summary:**

This pilot program was implemented in 2011 along with an online application process. This program ended at year-end 2015.

## Program Description and Progress

**Program Title:** Commercial Solar Photovoltaic Pilot

**Program Description:** This pilot program was part of DEF's Demand-Side Renewable Portfolio and encouraged commercial customers to install new solar photovoltaic (PV) systems on their facilities. Additionally, it promoted the installation of renewable energy on energy efficient businesses by requiring customers to complete a Business Energy Check prior to installation. The program design included an annual reservation process for pre-approval to ensure the maximum incentive funds were available for participation. Participants were eligible to receive a rebate up to \$2.00 per Watt of the PV DC power rating for the first 10 KW, \$1.50 per Watt for 11KW to 50 KW, and \$1.00 per Watt for 51 KW to 100 KW, up to a \$130,000 maximum for installing a new PV system.

**Program Accomplishments - January, 2015 - December, 2015:**

21 customers participated in this program.

**Program Fiscal Expenditures - January, 2015 - December, 2015:**

Expenses for this program were \$1,421,396.

**Program Progress Summary:** This pilot program was implemented in 2011 along with an online application process. This program ended at year-end 2015.

## Program Description and Progress

**Program Title:** Photovoltaic for Schools Pilot

**Program Description:** This pilot program was part of DEF's Demand-Side Renewable Portfolio and was designed to promote energy education and provide participating public schools with new solar photovoltaic (PV) systems at no cost to the school. The pilot program was limited to an annual target of one system with a rating up to 100 kW installed on a post-secondary school and up to ten (10) 10 kW systems with a battery backup option installed on K-12 schools, preferably those serving as emergency shelters. This pilot program was implemented in 2011 and continued to be offered in DEF's service territory through 2015.

**Program Accomplishments - January, 2015 - December, 2015:**

8 customers participated in this program.

**Program Fiscal Expenditures - January, 2015 - December, 2015:**

Expenses for this program were \$1,003,397.

**Program Variance Explanation - January 2015 - December 2015:**

Incentives were \$595,842 lower than the 2015 Actual/Estimated Filing due to all 10 schools opting for straight-grid-tied (non-battery) PV systems.

**Program Progress Summary:**

This pilot program was implemented in 2011. Since inception PV systems were installed on 38 K-12 schools and 5 post-secondary public schools. This program ended at year-end 2015.

## Program Description and Progress

**Program Title:** Research and Demonstration Pilot

**Program Description:** The purpose of this program was to research technology and support the development of renewable energy pilot programs. Demonstration projects provided the opportunity for field testing. The objective of these projects was to study and better understand the associated impacts of increased solar PV penetration and gain a better understanding of the performance variability of different solar PV technologies.

**Program Accomplishments - January, 2015 - December, 2015:**

Several research and development projects continued in 2015.

- Participated in a study to determine impacts from increased penetration of PV resources on distribution circuits utilizing data collected in DEF's PV monitoring project.
- Continued collaboration with EPRI to collect and evaluate the potential for Solar PV in Florida.
- Continued collaboration with the University of South Florida and the Florida High-Tech Corridor on the research milestones for the USF Renewable Energy Storage Project. This project included integration of a state-of-the-art lithium-ion energy storage system with the 100 kW solar PV system at the University of South Florida, St. Petersburg Campus. The Renewable Energy Storage Project explored the use of large-scale energy storage for mitigation of issues due to integration of solar PV, making the energy produced by these arrays available when most valuable, and enabling the operation of solar PV systems during extended grid outages resulting from hurricanes and other natural disasters.

**Program Fiscal Expenditures - January, 2015 - December, 2015:**

Expenses for this program were \$27,306.

**Program Progress Summary:**

The Research and Demonstration Pilot was initiated during 2011 along with the Demand Side Renewable Portfolio of pilot programs. This program ended at year-end 2015.

## Program Description and Progress

**Program Title:** Technology Development

**Program Description:** The Technology Development Program is designed to allow DEF to investigate technologies that support the development of new demand response and energy efficiency programs. This program includes, but is not limited to, technological research, field demonstration projects, research on load behavior and demand-side management measures and other market related research.

**Program Accomplishments - January 2015 - December 2015:**

Several research and development projects continued and/or launched in 2015.

- Continued and enhanced a project for appliance energy efficiency and demand response using CEA-2045 modular communications interface for energy management including field pilot projects.
- Continued to collaborate with the University of South Florida on a project for commercial building energy efficiency and demand response utilizing control systems that interface with existing customer building management systems.
- Expanded the demonstration of technologies that utilize Variable Speed Heat Pumps with the potential of eliminating strip heat as a back-up heat source for heat pumps
- Continued data collection to document solar resource on distribution feeders associated with our solar PV monitoring project.
- Participated in a EPRI project to study the potential of using customer demand response to provide benefits to compensate for variable loads and intermittent renewable generation resources.
- Started a project to improve the efficacy of commercial energy audits through analysis of available customer data to identify candidates that are likely to benefit from energy efficiency measures.
- Partnered with EPRI and other research organizations to evaluate energy efficiency, energy storage and alternative energy / innovative technologies.

**Program Fiscal Expenditures - January 2015 - December 2015:**

Expenses for this program were \$207,033.

**Program Progress Summary:**

In 2015, DEF continued to focus on advancing new technologies which have the potential to provide new programs and create new customer offerings.

## Program Description and Progress

**Program Title:** Qualifying Facility

**Program Description:** The purpose of this program is to meet the objectives and obligations established by Section 366.051, Florida Statutes, and the Commission's rules contained within Chapter 25-17, Florida Administrative Code, regarding the purchase of as-available energy and firm energy and capacity from qualifying facilities including those that utilize renewable sources under Section 366.91, Florida Statutes pursuant to an as-available tariff, standard offer or negotiated contracts.

Under the Qualifying Facilities program, DEF facilitates and administers the power purchases from qualifying facilities and state jurisdictional interconnections. This Program develops standard offer contracts, negotiates, enters into, amends and restructures non-firm energy, and firm energy and capacity contracts entered into with qualifying cogeneration, small power producers, and renewable facilities.

**Program Accomplishments - January, 2015 - December, 2015:**

Avoided cost and state jurisdictional interconnection service activity with renewable and distributed resource (DR) developers remained constant in 2015. DEF had contact with over 30 QF/DR developers who are exploring distributed generation options in Florida.

DEF successfully administered all in-service QF purchased power contracts for contractual compliance.

**Program Fiscal Expenditures - January, 2015 - December, 2015:**

Expenses for this program were \$840,334.

**Program Progress Summary:**

As of December 31, 2015, this program administered a total firm capacity from in-service Qualifying Facilities of approximately 481 MW's

**DUKE ENERGY FLORIDA, LLC**  
**Energy Conservation Cost Recovery**  
**Final True-Up**  
**January 2015 - December 2015**  
**Capital Structure and Cost Rates**

FPSC Docket No. 160002-EG  
Duke Energy Florida, LLC  
Witness: Lori J. Cross  
Exhibit No. \_\_\_(LJC-1T)  
Schedule CT-6  
Page 1 of 1  
May 2, 2016

Class of Capital	Retail Amount	Ratio	Cost Rate	Weighted Cost Rate	PreTax Weighted Cost Rate
CE	\$ 4,101,842	48.36%	0.10500	5.080%	8.270%
PS	-	0.00%	0.00000	0.000%	0.000%
LTD	3,174,547	37.42%	0.05216	1.950%	1.950%
STD	79,303	0.93%	0.01220	0.010%	0.010%
CD-Active	157,817	1.86%	0.02254	0.040%	0.040%
CD-Inactive	1,181	0.01%	0.00000	0.000%	0.000%
ADIT	1,114,885	13.14%	0.00000	0.000%	0.000%
FAS 109	(148,097)	-1.75%	0.00000	0.000%	0.000%
ITC	1,246	0.01%	0.00000	0.000%	0.000%
<b>Total</b>	<b>\$ 8,482,724</b>	<b>100.00%</b>		<b>7.080%</b>	<b>10.270%</b>
			<b>Total Debt</b>	<b>2.000%</b>	<b>2.000%</b>
			<b>Total Equity</b>	<b>5.080%</b>	<b>8.270%</b>

May 2014 DEF Surveillance Report capital structure and cost rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Docket 120007-EI.

Class of Capital	Retail Amount	Ratio	Cost Rate	Weighted Cost Rate	PreTax Weighted Cost Rate
CE	\$ 4,681,853	48.76%	0.10500	5.120%	8.335%
PS	-	0.00%	0.00000	0.000%	0.000%
LTD	3,672,596	38.25%	0.05187	1.984%	1.984%
STD	(90,568)	-0.94%	0.00170	-0.002%	-0.002%
CD-Active	182,163	1.90%	0.02306	0.044%	0.044%
CD-Inactive	1,306	0.01%	0.00000	0.000%	0.000%
ADIT	1,318,615	13.73%	0.00000	0.000%	0.000%
FAS 109	(164,391)	-1.71%	0.00000	0.000%	0.000%
ITC	498	0.01%	0.00000	0.000%	0.000%
<b>Total</b>	<b>\$ 9,602,073</b>	<b>100.00%</b>		<b>7.146%</b>	<b>10.361%</b>
			<b>Total Debt</b>	<b>2.026%</b>	<b>2.026%</b>
			<b>Total Equity</b>	<b>5.120%</b>	<b>8.335%</b>

May 2015 DEF Surveillance Report capital structure and cost rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Docket 120007-EI.