



**Matthew R. Bernier**  
ASSOCIATE GENERAL COUNSEL  
Duke Energy Florida, LLC

August 10, 2018

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

RE: Energy Conservation Cost Recovery; Docket No. 20180002-EG

Dear Ms. Stauffer:

On behalf of Duke Energy Florida ("DEF"), please find attached for electronic filing in the above referenced docket:

- DEF's Petition for Approval of Conservation Cost Recovery True-Up Calculations, Projected Program Expenditures and Projected Cost Recovery Factors for the Period January through December 2019; and
- 2017 Actual/Estimated True-Up & 2019 Projection Testimony of Lori J. Cross with Exhibit No. \_\_\_\_ (LJC-1P);

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.

Sincerely,

*/s/ Matthew R. Bernier*

Matthew R. Bernier

MRB/at  
Enclosures  
cc: parties of record

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Energy Conservation Cost Recovery  
Clause

Docket No. 20180002-EG

Dated: August 10, 2018

**PETITION OF DUKE ENERGY FLORIDA, LLC  
FOR APPROVAL OF CONSERVATION COST RECOVERY  
TRUE-UP CALCULATIONS, PROJECTED PROGRAM EXPENDITURES  
AND PROJECTED COST RECOVERY FACTORS FOR  
THE PERIOD JANUARY THROUGH DECEMBER 2019**

Duke Energy Florida, LLC (“DEF” or “the Company”), hereby petitions the Commission for approval of the Company’s conservation cost recovery true-up and cost recovery factors proposed for the period January 2019 through December 2019. In support thereof, the Company states:

1. DEF projects total conservation program costs of \$113,136,259 for the period January 2019 through December 2019.

2. The net true up is an over-recovery of \$8,314,779 which includes the final conservation over-recovery of \$2,815,663 for the period January 2017 through December 2017 as shown on DEF’s schedule CT-1 filed May 2, 2018, and the actual/estimated true-up over-recovery for January 2018 through December 2018 of \$5,499,116.

3. The total recoverable conservation costs including prior period over-recoveries to be recovered during the January 2019 through December 2019 billing period are \$104,853,136.

4. Based upon the required true-up and projected expenditures, DEF has calculated the required conservation cost recovery factors for the period January 2019 through December 2019 as follows:

**2019 ECCR Billing Factors**

<b><u>Retail Rate Schedule</u></b>	<b><u>Secondary Voltage</u></b>	<b><u>Primary Voltage</u></b>	<b><u>Transmission Voltage</u></b>
Residential (Cents/kWh)	.297	N/A	N/A
General-Service-Non-Demand (Cents/kWh)	.286	.283	.280
General Service 100% Load Factor (Cents/kWh)	.194	N/A	N/A
General Service Demand (\$/kW)	.94	.93	.92
Curtable (\$/kW)	.41	.41	.40
Interruptible (\$/kW)	.79	.78	.77
Standby Monthly (\$/kW)	.091	.090	.089
Standby Daily (\$/kW)	.043	.043	.042
Lighting (Cents/kWh)	.081	N/A	N/A

WHEREFORE, Duke Energy Florida, LCC, respectfully requests the Commission's approval of the Company's prior period conservation cost recovery true-up calculations, projected program expenditures and projected conservation cost recovery charges to be collected during the January 2019 through December 2019 billing period.

RESPECTFULLY SUBMITTED this 10th day of August, 2018.

*/s/ Matthew R. Bernier*

\_\_\_\_\_  
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\_\_\_\_\_  
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Telephone: (727) 820-4692

**CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished by electronic mail this 10<sup>th</sup> day of August, 2018, to all parties of record as indicated below.

\_\_\_\_\_  
/s/ Matthew R. Bernier

Matthew R. Bernier

<p>Margo DuVal Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 <a href="mailto:mduval@psc.state.fl.us">mduval@psc.state.fl.us</a></p> <p>James Beasley / J. Jeffry Wahlen Ausley McMullen P.O. Box 391 Tallahassee, FL 32302 <a href="mailto:jbeasley@ausley.com">jbeasley@ausley.com</a> <a href="mailto:jwahlen@ausley.com">jwahlen@ausley.com</a></p> <p>Russell A. Badders / Steven R. Griffin Beggs &amp; Lane P.O. Box 12950 Pensacola, FL 32591 <a href="mailto:rab@beggslane.com">rab@beggslane.com</a> <a href="mailto:srg@beggslane.com">srg@beggslane.com</a></p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. 118 North Gadsden Street Tallahassee, FL 32301 <a href="mailto:jmoyle@moylelaw.com">jmoyle@moylelaw.com</a></p> <p>Kenneth Rubin / Joel Baker Florida Power &amp; Light Company 700 Universe Boulevard (LAW/JB) Juno Beach, FL 33408-0420 <a href="mailto:ken.rubin@fpl.com">ken.rubin@fpl.com</a> <a href="mailto:joel.baker@fpl.com">joel.baker@fpl.com</a></p> <p>James W. Brew / Laura A. Wynn Stone Law Firm 1025 Thomas Jefferson Street, N.W. Eighth Floor, West Tower Washington, D.C. 20007 <a href="mailto:jbrew@smxblaw.com">jbrew@smxblaw.com</a> <a href="mailto:law@smxblaw.com">law@smxblaw.com</a></p>	<p>Beth Keating Gunster, Yoakley &amp; Stewart, P.A. 215 South Monroe Street, Suite 601 Tallahassee, FL 32301 <a href="mailto:bkeating@gunster.com">bkeating@gunster.com</a></p> <p>Rhonda J. Alexander / Jeffrey A. Stone Gulf Power Company One Energy Place Pensacola, FL 32520-0780 <a href="mailto:rjalexad@southernco.com">rjalexad@southernco.com</a> <a href="mailto:jastone@southernco.com">jastone@southernco.com</a></p> <p>Ms. Paula K. Brown Tampa Electric Company P.O. Box 111 Tampa, FL 33601 <a href="mailto:regdept@tecoenergy.com">regdept@tecoenergy.com</a></p> <p>Kenneth A. Hoffman Florida Power &amp; Light Company 215 S. Monroe Street, Suite 810 Tallahassee, FL 32301-1858 <a href="mailto:ken.hoffman@fpl.com">ken.hoffman@fpl.com</a></p> <p>Charles J. Rehwinkel / J. R. Kelly / Patricia A. Christensen Office of Public Counsel c/o The Florida Legislature 111 West Madison Street, Room 812 Tallahassee, FL 32399 <a href="mailto:rehwinkel.charles@leg.state.fl.us">rehwinkel.charles@leg.state.fl.us</a> <a href="mailto:kelly,jr@leg.state.fl.us">kelly,jr@leg.state.fl.us</a> <a href="mailto:christensen.patty@leg.state.fl.us">christensen.patty@leg.state.fl.us</a></p> <p>Mike Cassel Florida Public Utilities Company 1750 S. 14<sup>th</sup> Street, Suite 200 Fernandina Beach, FL 32034 <a href="mailto:mcassel@fpuc.com">mcassel@fpuc.com</a></p>
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**DUKE ENERGY FLORIDA**  
**DOCKET No. 20180002-EG**

**Energy Conservation Cost Recovery**  
**2018 Actual / Estimated and 2019 Projected Costs**

**DIRECT TESTIMONY OF**  
**Lori J. Cross**

**August 10, 2018**

1 **Q. 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 ("DEBS"), as Strategy  
7 Collaboration Director Regulatory Strategy in the Customer Programs  
8 Department. DEBS is a service-company affiliate of Duke Energy Florida, LLC  
9 ("Duke Energy Florida", "DEF", or the "Company").

10

11 **Q. What are your current duties and responsibilities at Duke Energy?**

12 A. My responsibilities include the 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 training,  
15 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 describe the components and costs of the  
3 Company's DSM programs. I will detail the projected costs for each program,  
4 explain how these costs are presented in my attached exhibit, and show the  
5 resulting projected Energy Conservation Cost Recovery ("ECCR") factors for  
6 2019 customer billings.

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

9 A. Pursuant to Rule 25-17.015, F.A.C., Duke Energy Florida seeks recovery  
10 through the ECCR clause of costs related to the following conservation  
11 programs approved by the Commission as part of the Company's DSM Plan on  
12 August 20, 2015 (see Order No. PSC-15-0332-PAA-EG), as well as for common  
13 administrative expenses not linked to a specific program:

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

- 1 • Curtailable Service
- 2 • Technology Development
- 3 • Qualifying Facility
- 4

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

6 A. Yes. Exhibit No.\_(LJC-1P) supports Duke Energy Florida's energy  
7 conservation calculations for the 2018 actual/estimated period and the 2019  
8 projection period. There are six (6) schedules included in this exhibit.  
9

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

11 A. Yes. Exhibit No.\_(LJC-1P) presents Schedules C-1 through C-6. Schedules C-  
12 1 to C-4 provide projected program costs for calendar year 2019 along with an  
13 updated projection of program costs for 2018. The 2018 updated projection of  
14 costs includes the actual costs incurred for the period from January 2018  
15 through June 2018 and forecasted costs for July through December 2018.  
16 Schedule C-5 provides a brief summary report for each program that includes a  
17 program description, estimated annual program expenditures for 2019, and a  
18 summary of program accomplishments through the period ending June 2018.  
19 Schedule C-6 is the capital structure and cost rates used to calculate the return  
20 for each applicable conservation program.  
21

22 **Q. Would you please discuss Schedule C-1?**

23 A. Schedule C-1 provides the calculation of the cost recovery factors for 2019 by  
24 rate class.

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**Q. What does Schedule C-2 show?**

A. Schedule C-2 provides annual and monthly conservation program cost estimates for the 2019 projection period for each conservation program, as well as for common administration expenses. Additionally, Schedule C-2 presents program costs by specific category (e.g., payroll, materials, incentives, etc.) and includes a schedule of estimated capital investments, depreciation and return for the projection period.

**Q. Would you please discuss Schedule C-3?**

A. Schedule C-3 contains a detailed breakdown of conservation program costs by specific category and by month for the period of January through June 2018 (actual) and July through December 2018 (estimated). In addition, Schedule C-3 presents a schedule of capital investment, depreciation and return, an energy conservation adjustment calculation of true-up, and a calculation of interest provision for the 2018 actual/estimated period.

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

A. Schedule C-4 provides the projected ECCR revenues for the 2019 projection period.

**Q. Would you please discuss Schedule C-5?**



1 A. Schedule C-5 presents a brief description of each program, as well as a  
2 summary of progress and projected expenditures for each program for which  
3 DEF seeks cost recovery through the ECCR clause.

4

5 **Q. What is the purpose of Schedule C-6?**

6 A. Schedule C-6 provides the capital structure and cost rates used to calculate  
7 the Return on Average Investment on Schedules C-2 and C-3.

8

9 **Q. Would you please summarize the results presented in your Exhibit?**

10 A. Yes. Schedule C-2, Page 1 of 8, Line 22, shows total 2019 projected program  
11 costs of \$113,136,259 partially offset by a prior period over-recovery of  
12 \$8,314,779 resulting in estimated net revenue requirements in 2019 of  
13 \$104,853,136, after applying the revenue expansion factor of 1.000302. The  
14 following table includes DEF's proposed ECCR billing factors, by retail rate  
15 class and voltage level for calendar year 2019, as contained in Schedule C-1,  
16 Page 2 of 2.

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**2019 ECCR Billing Factors**

	<b>Secondary</b>	<b>Primary</b>	<b>Transmission</b>
<b><u>Retail Rate Schedule</u></b>	<b><u>Voltage</u></b>	<b><u>Voltage</u></b>	<b><u>Voltage</u></b>
Residential (Cents/kWh)	.297	N/A	N/A
General-Service-Non-Demand (Cents/kWh)	.286	.283	.280
General Service 100% Load Factor (Cents/kWh)	.194	N/A	N/A
General Service Demand (\$/kW)	.94	.93	.92
Curtable (\$/kW)	.41	.41	.40
Interruptible (\$/kW)	.79	.78	.77
Standby Monthly (\$/kW)	.091	.090	.089
Standby Daily (\$/kW)	.043	.043	.042
Lighting (Cents/kWh)	.081	N/A	N/A

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

A. Yes.

**Duke Energy Florida, LLC**  
**Energy Conservation Cost Recovery**  
**Calculation of Energy & Demand Allocation % by Rate Class**  
**January 2019 - December 2019**

Rate Class	(1) Average 12CP Load Factor at Meter (%)	(2) Sales at Meter (mWh)	(3) Avg 12 CP at Meter (MW) (2)/(8760hrsx(1))	(4) Delivery Efficiency Factor	(5) Sales at Source (Generation) (mWh) (2)/(4)	(6) Avg 12 CP at Source (MW) (3)/(4)	(7) Annual Average Demand (5)/(8760hrs)	(8) mWh Sales at Source Energy Allocator (%)	(9) 12 CP Demand Allocator (%)	(10) 12CP & 1/13 AD Demand Allocator (%)
<b>Residential</b>										
RS-1, RST-1, RSL-1, RSL-2, RSS-1 Secondary	0.548	20,593,148	4,291.48	0.9413447	21,876,309	4,558.88	2,497.30	52.591%	60.276%	59.685%
<b>General Service Non-Demand</b>										
<b>GS-1, GST-1</b>										
Secondary	0.576	2,001,248	396.85	0.9413447	2,125,946	421.58	242.69	5.111%	5.574%	5.538%
Primary	0.576	15,976	3.17	0.9719653	16,437	3.26	1.88	0.040%	0.043%	0.043%
Transmission	0.576	2,484	0.49	0.9819653	2,530	0.50	0.29	0.006%	0.007%	0.007%
								5.156%	5.624%	5.588%
<b>General Service</b>										
GS-2 Secondary	1.000	177,263	20.24	0.9413447	188,308	21.50	21.50	0.453%	0.284%	0.297%
<b>General Service Demand</b>										
<b>GSD-1, GSDT-1</b>										
Secondary	0.742	11,774,036	1,810.48	0.9413447	12,507,677	1,923.29	1,427.82	30.069%	25.429%	25.786%
Primary	0.742	2,216,857	340.88	0.9719653	2,280,799	350.72	260.37	5.483%	4.637%	4.702%
Transmission	0.742	0	0.00	0.9819653	0	0.00	0.00	0.000%	0.000%	0.000%
SS-1 Primary	0.796	44,079	6.32	0.9719653	45,350	6.51	5.18	0.109%	0.086%	0.088%
Transm Del/ Transm Mtr	0.796	8,533	1.22	0.9819653	8,690	1.25	0.99	0.021%	0.016%	0.017%
Transm Del/ Primary Mtr	0.796	1,872	0.27	0.9719653	1,926	0.28	0.22	0.005%	0.004%	0.004%
								35.686%	30.172%	30.596%
<b>Curtable</b>										
<b>CS-1, CST-1, CS-2, CST-2</b>										
Secondary	1.082	(0)	(0.00)	0.9413447	(0)	(0.00)	(0.00)	0.000%	0.000%	0.000%
Primary	1.082	71,221	7.51	0.9719653	73,275	7.73	8.36	0.176%	0.102%	0.108%
SS-3 Primary	1.248	66,505	6.08	0.9719653	68,423	6.26	7.81	0.164%	0.083%	0.089%
								0.341%	0.185%	0.197%
<b>Interruptible</b>										
<b>IS-1, IST-1, IS-2, IST-2</b>										
Secondary	0.911	89,356	11.19	0.9413447	94,924	11.89	10.84	0.228%	0.157%	0.163%
Sec Del/Primary Mtr	0.911	4,978	0.62	0.9719653	5,122	0.64	0.58	0.012%	0.008%	0.009%
Primary Del / Primary Mtr	0.911	1,113,149	139.45	0.9719653	1,145,256	143.47	130.74	2.753%	1.897%	1.963%
Primary Del / Transm Mtr	0.911	249	0.03	0.9819653	254	0.03	0.03	0.001%	0.000%	0.000%
Transm Del/ Transm Mtr	0.911	346,705	43.43	0.9819653	353,073	44.23	40.31	0.849%	0.585%	0.605%
Transm Del/ Primary Mtr	0.911	223,444	27.99	0.9719653	229,889	28.80	26.24	0.553%	0.381%	0.394%
SS-2 Primary	0.686	60,525	10.07	0.9719653	62,271	10.37	7.11	0.150%	0.137%	0.138%
Transm Del/ Transm Mtr	0.686	92,935	15.47	0.9819653	94,642	15.75	10.80	0.228%	0.208%	0.210%
Transm Del/ Primary Mtr	0.686	11,069	1.84	0.9719653	11,388	1.90	1.30	0.027%	0.025%	0.025%
								4.800%	3.399%	3.507%
<b>Lighting</b>										
LS-1 (Secondary)	10.191	380,801	4.27	0.9413447	404,528	4.53	46.18	0.972%	0.060%	0.130%
		39,296,432	7,139.36		41,597,015	7,563.34	4,748.52	100.000%	100.000%	100.000%

Notes:

- |  |   |
|--|---|
| (1) Average 12CP load factor based on load research study filed July 31, 2018 (Rule 25-6-0437 (7)) | (6) Column 3 / Column 4                 |
| (2) Projected kWh sales for the period January 2019 to December 2019                               | (7) Column 5 / 8,760 hours              |
| (3) Calculated: Column 2 / (8,760 hours x Column 1)  | (8) Column 5/ Total Column 5            |
| (4) Based on system average line loss analysis for 2017  | (9) Column 6/ Total Column 6            |
| (5) Column 2 / Column 4  | (10) Column 8 x 1/13 + Column 9 x 12/13 |

**Duke Energy Florida, LLC**  
**Energy Conservation Cost Recovery**  
**Calculation of Energy Conservation Cost Recovery Rate Factors by Rate Class**  
**January 2019 - December 2019**

Rate Class	(1) mWh Sales at Source Energy Allocator (%)	(2) 12CP & 1/13 AD Demand Allocator (%)	(3) Energy- Related Costs (\$)	(4) Production Demand Costs (\$)	(5) Total Energy Conservation Costs (\$)	(6) Projected Effective Sales at Meter Level (mWh)	(7) Billing KW Load Factor (%)	(8) Projected Effective KW at Meter Level (kW)	(9) Energy Conservation Cost Recovery (\$/kW-month)	(10) Energy Conservation Cost Recovery (cents/kWh)
<b>Residential</b>										
RS-1, RST-1, RSL-1, RSL-2, RSS-1										
Secondary	52.591%	59.685%	\$ 10,681,203	\$ 50,459,469	\$ 61,140,672	20,593,148				0.297
<b>General Service Non-Demand</b>										
GS-1, GST-1										
Secondary						2,001,248				0.286
Primary						15,816				0.283
Transmission						2,434				0.280
TOTAL GS	5.156%	5.588%	\$ 1,047,263	\$ 4,724,035	\$ 5,771,298	2,019,498				
<b>General Service</b>										
GS-2	0.453%	0.297%	\$ 91,942	\$ 251,244	\$ 343,186	177,263				0.194
<b>General Service Demand</b>										
GSD-1, GSDT-1, SS-1*										
Secondary						11,774,036			0.94	
Primary						2,240,180			0.93	
Transmission						8,362			0.92	
TOTAL GSD	35.686%	30.596%	\$ 7,247,863	\$ 25,867,199	\$ 33,115,062	14,022,578	54.40%	35,310,682		
<b>Curtaillable</b>										
CS-1, CST-1, CS-2, CST-2, CS-3, CST-3, SS-3*										
Secondary						(0)			0.41	
Primary						136,349			0.41	
Transmission						-			0.40	
TOTAL CS	0.341%	0.197%	\$ 69,185	\$ 166,492	\$ 235,677	136,349	32.20%	580,059		
<b>Interruptible</b>										
IS-1, IST-1, IS-2, IST-2, SS-2*										
Secondary						89,356			0.79	
Primary						1,399,033			0.78	
Transmission						431,091			0.77	
TOTAL IS	4.800%	3.507%	\$ 974,955	\$ 2,964,773	\$ 3,939,728	1,919,481	52.60%	4,998,909		
<b>Lighting</b>										
LS-1	0.972%	0.130%	\$ 197,513	\$ 110,000	\$ 307,512	380,801				0.081
	100.000%	100.000%	\$ 20,309,924	\$ 84,543,212	\$ 104,853,136	39,249,117				0.267

- Notes:
- (1) From Schedule C-1 1P, Column 8
  - (2) From Schedule C-1 1P, Column 10
  - (3) Column 1 x Total Energy Dollars, C-2 Page 1, line 20
  - (4) Column 2 x Total Demand Dollars, C-2 Page 1, line 21
  - (5) Column 3 + Column 4

- (6) kWh sales at effective secondary voltage
- (7) Class Billing kW Load Factor
- (8) Column 6 x 1000 / 8,760 / Column 7 x 12
- (9) Column 5 / Column 8 (x voltage factor if applicable)
- (10) Column 5 / Column 6 / 10

Calculation of Standby Service kW Charges			
	ECCR Cost	Effective kW	\$/kW
Total GSD, CS, IS	\$37,290,467	40,889,650	0.91
<b>SS-1 2 3 - \$/KW-mo</b>			
Secondary			
Monthly - \$0.91/kW * 10%	0.091	0.090	0.089
Daily - \$0.91/kW / 21	0.043	0.043	0.042
Primary			
Transmission			

**Duke Energy Florida, LLC  
Energy Conservation Cost Recovery  
Estimated Conservation Program Costs  
January 2019 - December 2019**

FPSC Docket No. 20180002-EG  
Duke Energy Florida, LLC  
Witness: Lori J. Cross  
Exhibit No.\_\_\_\_(LJC-1P)  
Schedule C-2  
Page 1 of 5

Line No.	Program Demand (D) or Energy (E)	12 Month Total
1	Home Energy Check (E)	\$5,462,447
2	Residential Incentive Program (E)	7,388,880
3	Business Energy Check (E)	858,893
4	Better Business (E)	3,242,712
5	Technology Development (E)	800,000
6	Florida Custom Incentive (Innovation Incentive) (E)	645,319
7	Interruptible Service (D)	35,299,564
8	Curtable Service (D)	2,195,256
9	Energy Management (Residential & Commercial) (D)	44,104,674
10	Low Income Weatherization Assistance Program (E)	354,813
11	Standby Generation (D)	4,469,693
12	Qualifying Facility (E)	1,211,168
13	Neighborhood Energy Saver (E)	2,994,366
14	Conservation Program Admin (E)	2,593,059
15	Conservation Program Admin (D)	1,515,413
16	Total ECCR Program Costs	<u><u>\$113,136,259</u></u>

Line	12 Months Total	2018 End of Period Net True-Up (Over)/Under Recovery	Total Costs	Revenue Expansion Factor	Total Recoverable Costs
17					
18					
19	<u>Total</u>				
20	Energy	(\$5,247,866)	\$20,303,792	1.000302	\$20,309,924
21	Demand	(3,066,913)	84,517,688	1.000302	84,543,212
22	Total Demand & Energy Costs	<u><u>(\$8,314,779)</u></u>	<u><u>\$104,821,480</u></u>		<u><u>\$104,853,136</u></u>

**Duke Energy Florida, LLC**  
**Energy Conservation Cost Recovery**  
**Estimated Conservation Program Costs**  
**January 2019 - December 2019**

Line No.	Program Demand (D) or Energy (E)	Est Jan-19	Est Feb-19	Est Mar-19	Est Apr-19	Est May-19	Est Jun-19	Est Jul-19	Est Aug-19	Est Sep-19	Est Oct-19	Est Nov-19	Est Dec-19	Total
1	Home Energy Check (E)	\$416,252	\$494,490	\$451,932	\$442,287	\$429,209	\$402,179	\$403,257	\$396,444	\$442,917	\$483,823	\$474,219	\$625,438	\$5,462,447
2	Residential Incentive Program (E)	609,544	606,436	635,016	617,435	617,404	613,041	612,467	624,024	618,600	611,675	610,336	612,902	7,388,880
3	Business Energy Check (E)	43,782	43,782	45,138	62,138	44,638	45,138	329,720	45,217	45,714	45,212	62,709	45,704	858,893
4	Better Business (E)	267,759	267,759	273,486	269,904	269,904	270,786	269,904	272,115	270,646	269,904	269,904	270,639	3,242,712
5	Technology Development (E)	66,666	66,666	66,666	66,666	66,666	66,666	66,666	66,666	66,666	66,666	66,666	66,666	800,000
6	Florida Custom Incentive Program (E)	43,727	43,727	44,609	44,007	44,007	44,608	44,007	44,007	44,611	44,007	94,009	109,994	645,319
7	Interruptible Service (D)	2,937,466	2,938,158	2,939,081	2,939,826	2,940,569	2,941,307	2,942,042	2,942,774	2,943,503	2,944,227	2,944,947	2,945,665	35,299,564
8	Curtable Service (D)	182,938	182,938	182,938	182,938	182,938	182,938	182,938	182,938	182,938	182,938	182,938	182,938	2,195,256
9	Energy Management (Residential & Commercial) (D)	3,577,788	3,649,844	3,334,206	3,120,390	3,469,636	3,711,329	3,790,833	3,844,306	3,859,285	3,677,047	4,235,411	3,834,598	44,104,674
10	Low Income Weatherization Assistance Program (E)	33,654	27,154	33,911	26,898	29,898	31,898	26,898	31,911	30,898	26,898	27,898	26,898	354,813
11	Standby Generation (D)	372,746	372,404	372,580	372,576	372,573	372,569	372,565	372,440	372,314	372,311	372,310	372,308	4,469,693
12	Qualifying Facility (E)	100,089	100,389	100,089	101,389	101,889	101,389	101,089	101,389	100,089	100,089	101,889	101,389	1,211,168
13	Neighborhood Energy Saver (E)	190,715	213,692	272,487	269,902	264,218	266,768	311,208	290,069	262,929	264,092	207,463	180,823	2,994,366
14	Conservation Program Admin (E)	197,763	193,591	251,982	200,280	197,204	251,417	202,510	197,550	250,857	200,214	198,715	250,975	2,593,059
15	Conservation Program Admin (D)	115,575	113,137	147,261	117,046	115,248	146,931	118,349	115,450	146,604	117,008	116,131	146,672	1,515,413
16	<b>Total ECCR Program Costs</b>	<b>\$9,156,465</b>	<b>\$9,314,167</b>	<b>\$9,151,382</b>	<b>\$8,833,683</b>	<b>\$9,146,002</b>	<b>\$9,448,964</b>	<b>\$9,774,455</b>	<b>\$9,527,300</b>	<b>\$9,638,571</b>	<b>\$9,406,113</b>	<b>\$9,965,545</b>	<b>\$9,773,613</b>	<b>\$113,136,259</b>
17	<b>Demand &amp; Energy Summary</b>													
18	Energy	\$1,969,952	\$2,057,686	\$2,175,316	\$2,100,907	\$2,065,038	\$2,093,890	\$2,367,728	\$2,069,392	\$2,133,928	\$2,112,582	\$2,113,808	\$2,291,432	\$25,551,658
19	Demand	7,186,513	7,256,481	6,976,066	6,732,776	7,080,964	7,355,074	7,406,727	7,457,908	7,504,643	7,293,531	7,851,737	7,482,181	87,584,601
20	<b>Total Demand &amp; Energy Costs</b>	<b>\$9,156,465</b>	<b>\$9,314,167</b>	<b>\$9,151,382</b>	<b>\$8,833,683</b>	<b>\$9,146,002</b>	<b>\$9,448,964</b>	<b>\$9,774,455</b>	<b>\$9,527,300</b>	<b>\$9,638,571</b>	<b>\$9,406,113</b>	<b>\$9,965,545</b>	<b>\$9,773,613</b>	<b>\$113,136,259</b>

Duke Energy Florida, LLC  
**Energy Conservation Cost Recovery**  
**Estimated Conservation Program Costs**  
**January 2019 - December 2019**

Line No.	Program Demand (D) or Energy (E)	Depreciation, Amortization & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues (Credits)	Total
1	Home Energy Check (E)	\$13,939	\$2,816,043	\$151,310	\$998,582	\$845,569	\$437,779	\$92,516	\$106,708	\$0	\$5,462,447
2	Residential Incentive Program (E)	0	2,511,427	19,316	197,239	29,340	4,476,744	88,824	65,989	0	7,388,880
3	Business Energy Check (E)	2,950	452,200	13,944	316,000	18,922	35,000	5,702	14,175	0	858,893
4	Better Business (E)	0	1,215,233	8,579	141,200	36,141	1,800,000	14,360	27,201	0	3,242,712
5	Technology Development (E)	0	150,189	75,000	489,811	0	60,000	5,000	20,000	0	800,000
6	Florida Custom Incentive Program (E)	0	184,798	11,050	117,143	24,000	300,000	2,518	5,811	0	645,319
7	Interruptible Service (D)	80,773	227,161	0	0	0	34,985,928	1,107	4,595	0	35,299,564
8	Curtable Service (D)	0	8,400	0	0	0	2,186,856	0	0	0	2,195,256
9	Energy Management (Residential & Commercial) (D)	15,180,772	1,731,494	11,323	1,721,766	779,512	24,546,197	63,402	70,209	0	44,104,674
10	Low Income Weatherization Assistance Program (E)	0	128,953	0	2,100	32,500	182,260	500	8,500	0	354,813
11	Standby Generation (D)	8,175	355,643	158,400	0	0	3,933,996	7,285	6,194	0	4,469,693
12	Qualifying Facility (E)	0	1,178,868	3,000	4,800	0	0	4,500	20,000	0	1,211,168
13	Neighborhood Energy Saver (E)	0	188,374	0	272,573	84,435	2,430,265	2,120	16,600	0	2,994,366
14	Conservation Program Admin (E)	0	1,758,798	47,223	514,993	0	0	2,204	269,840	0	2,593,059
15	Conservation Program Admin (D)	0	1,027,861	27,598	300,968	0	0	1,288	157,698	0	1,515,413
16	Total ECCR Program Costs	\$15,286,609	\$13,935,442	\$526,742	\$5,077,175	\$1,850,419	\$75,375,025	\$291,328	\$793,520	\$0	\$113,136,259
17	<b>Demand &amp; Energy Summary</b>										
18	Energy	\$16,889	\$10,584,883	\$329,421	\$3,054,441	\$1,070,907	\$9,722,048	\$218,245	\$554,824	\$0	\$25,551,658
19	Demand	15,269,720	3,350,559	197,321	2,022,734	779,512	65,652,977	73,083	238,696	0	87,584,601
20	Total Demand & Energy Costs	\$15,286,609	\$13,935,442	\$526,742	\$5,077,175	\$1,850,419	\$75,375,025	\$291,328	\$793,520	\$0	\$113,136,259

**Duke Energy Florida, LLC**  
**Energy Conservation Cost Recovery**  
**Schedule of Capital Investment, Depreciation & Return**  
**January 2019 December 2019**

FPSC Docket No. 20180002 EG  
Duke Energy Florida, LLC  
Witness: Lori J. Cross  
Exhibit No. (LJC 1P)  
Schedule G 2  
Page 4 of 5

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Est Jan-19	Est Feb-19	Est Mar-19	Est Apr-19	Est May-19	Est Jun-19	Est Jul-19	Est Aug-19	Est Sep-19	Est Oct-19	Est Nov-19	Est Dec-19	Total
<b>1 Home Energy Check (E)</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		982	982	982	982	982	982	982	982	982	982	982	982	11,784
7															
8	Cumulative 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
9	Less Accumulated Depreciation		49,114	50,096	51,078	52,060	53,042	54,024	55,006	55,988	56,970	57,952	58,934	59,916	60,898
10	Net Investment		33,348	32,366	31,384	30,402	29,420	28,438	27,456	26,474	25,492	24,510	23,528	22,546	21,564
11	Average Investment		32,857	31,875	30,893	29,911	28,929	27,947	26,965	25,983	25,001	24,019	23,037	22,055	
12	Return on Average Investment		175	169	165	159	154	149	144	138	133	128	122	117	1,753
13															
14	Return Requirements		215	208	203	195	189	183	177	170	164	157	150	144	2,155
15															
16	Program Total		\$1,197	\$1,190	\$1,185	\$1,177	\$1,171	\$1,165	\$1,159	\$1,152	\$1,146	\$1,139	\$1,132	\$1,126	\$13,939
<b>17 Business Energy Check (E)</b>															
18	Investments		\$0	\$0	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000
19	Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
20	Depreciation Base		0	0	0	0	0	0	0	25,000	25,000	25,000	25,000	25,000	
21															
22	Depreciation Expense		0	0	0	0	0	0	0	417	417	417	417	417	2,085
23															
24	Cumulative Investment		0	0	0	0	0	0	25,000	25,000	25,000	25,000	25,000	25,000	25,000
25	Less Accumulated Depreciation		0	0	0	0	0	0	0	417	834	1,251	1,668	2,085	2,085
26	Net Investment		0	0	0	0	0	0	25,000	24,583	24,166	23,749	23,332	22,915	22,915
27	Average Investment		0	0	0	0	0	0	12,500	24,792	24,375	23,958	23,541	23,124	
28	Return on Average Investment		0	0	0	0	0	0	67	132	129	128	125	123	704
29															
30	Return Requirements		0	0	0	0	0	0	82	162	159	157	154	151	865
31															
32	Program Total		\$0	\$0	\$0	\$0	\$0	\$0	\$82	\$579	\$576	\$574	\$571	\$568	\$2,950
<b>33 Interruptible Service (D)</b>															
34	Investments		\$33,100	\$33,100	\$33,100	\$33,100	\$33,100	\$33,100	\$33,100	\$33,100	\$33,100	\$33,100	\$33,100	\$33,100	\$397,200
35	Retirements		0	7,153	0	0	0	0	0	0	0	0	0	0	7,153
36	Depreciation Base		125,673	155,197	184,720	217,820	250,920	284,020	317,120	350,220	383,320	416,420	449,520	482,620	
37															
38	Depreciation Expense		2,095	2,587	3,079	3,630	4,182	4,734	5,285	5,837	6,389	6,940	7,492	8,044	60,294
39															
40	Cumulative Investment		125,673	158,773	184,720	217,820	250,920	284,020	317,120	350,220	383,320	416,420	449,520	482,620	515,720
41	Less Accumulated Depreciation		39,435	41,530	36,964	40,043	43,673	47,855	52,589	57,874	63,711	70,100	77,040	84,532	92,576
42	Net Investment		86,238	117,243	147,756	177,777	207,247	236,165	264,531	292,346	319,609	346,320	372,480	398,088	423,144
43	Average Investment		101,741	132,500	162,767	192,512	221,706	250,348	278,439	305,978	332,965	359,400	385,294	410,616	
44	Return on Average Investment		541	704	866	1,024	1,179	1,331	1,481	1,627	1,771	1,912	2,049	2,184	16,669
45															
46	Return Requirements		665	865	1,064	1,258	1,449	1,635	1,819	1,999	2,176	2,349	2,517	2,683	20,479
47															
48	Program Total		\$2,760	\$3,452	\$4,143	\$4,888	\$5,631	\$6,369	\$7,104	\$7,836	\$8,565	\$9,289	\$10,009	\$10,727	\$80,773
<b>49 Standby Generation (D)</b>															
50	Investments		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
51	Retirements		0	35,171	0	0	0	0	0	12,267	0	0	0	0	47,538
52	Depreciation Base		67,538	49,952	32,367	32,367	32,367	32,367	32,367	32,367	26,183	20,000	20,000	20,000	
53															
54	Depreciation Expense		1,126	833	539	539	539	539	539	436	333	333	333	333	6,422
55															
56	Cumulative Investment		67,538	67,538	32,367	32,367	32,367	32,367	32,367	32,367	20,000	20,000	20,000	20,000	20,000
57	Less Accumulated Depreciation		39,008	40,134	5,796	6,335	6,874	7,413	7,952	8,491	2,666	2,899	3,332	3,665	3,998
58	Net Investment		28,530	27,404	26,571	26,032	25,493	24,954	24,415	23,876	17,334	17,001	16,668	16,335	16,002
59	Average Investment		27,967	26,988	26,302	25,763	25,224	24,685	24,146	23,605	17,168	16,835	16,502	16,169	
60	Return on Average Investment		149	144	140	137	134	131	128	110	91	89	88	86	1,427
61															
62	Return Requirements		183	177	172	168	165	161	157	135	112	109	108	106	1,753
63															
64	Program Total		\$1,309	\$1,010	\$711	\$707	\$704	\$700	\$696	\$571	\$445	\$442	\$441	\$439	\$8,175

**Notes**

- Return on average investment is calculated using an annual rate of 6.38% based on May 2018 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 25.345%.
- The WACC used for 2019 has been adjusted in compliance with paragraph 19 of DEF's Settlement Agreement in Docket No. 20170183-EI, Order No. PSC-2017-0451-AS-EU



**Duke Energy Florida, LLC  
Energy Conservation Cost Recovery  
Schedule of Capital Investment, Depreciation & Return  
January 2019 December 2019**

Duke Energy Florida, LLC  
Witness: Lori J. Cross  
Exhibit No. \_\_\_\_\_ (LJC 1P)  
Schedule C 2  
Page 5 of 5

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Est Jan-19	Est Feb-19	Est Mar-19	Est Apr-19	Est May-19	Est Jun-19	Est Jul-19	Est Aug-19	Est Sep-19	Est Oct-19	Est Nov-19	Est Dec-19	Total
<b>1</b>	<b>Residential Energy Management - Summary (Itemized Below)</b>														
2	Expenditures Booked Directly to Plant	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$12,377,964
3	Retirements	71,164	158,154	479,651	460,980	44,892	55,407	21,054	89,890	24,267	73,394	24,668	19,943	1,523,464	
4	Investments Booked to CWIP	41,166	41,166	41,166	41,166	41,166	41,166	41,166	41,166	41,166	41,166	41,166	41,166	493,992	
5	Closings to Plant	-	-	-	-	-	-	-	-	-	-	-	-	493,992	
6	Depreciation Base	62,838,123	63,754,960	64,467,555	65,028,736	65,807,297	66,788,644	67,781,911	68,757,935	69,732,354	70,715,020	71,697,487	72,706,678	72,706,678	
7															
8	Depreciation Expense	993,552	1,008,833	1,020,710	1,030,063	1,043,039	1,059,395	1,075,950	1,092,218	1,108,458	1,124,836	1,141,211	1,158,031	12,856,296	
9															
10	Cumulative Plant Investment	62,873,704	63,834,037	64,707,380	65,259,226	65,829,743	66,816,348	67,792,438	68,802,881	69,744,488	70,751,717	71,709,821	72,716,650	74,222,196	
11	Less Accumulated Depreciation	33,412,683	34,335,071	35,185,750	35,726,809	36,295,892	37,294,039	38,298,027	39,352,923	40,355,250	41,439,441	42,490,883	43,607,427	44,745,515	
12	Cumulative CWIP Investment	0	41,166	82,332	123,498	164,664	205,830	246,996	288,162	329,328	370,494	411,660	452,826	0	
13	Net Plant Investment	29,461,021	29,540,132	29,603,962	29,655,915	29,698,515	29,728,139	29,741,407	29,738,120	29,718,565	29,682,770	29,630,597	29,562,049	29,476,681	
14	Average Investment	29,500,577	29,572,047	29,629,939	29,677,215	29,713,327	29,734,773	29,738,343	29,700,668	29,656,684	29,596,323	29,519,365	29,519,365	29,519,365	
15	Return on Average Investment	156,890	157,270	157,578	157,829	158,022	158,136	158,162	158,101	157,954	157,720	157,400	156,989	1,892,051	
16		0	0	0	0	0	0	0	0	0	0	0	0	0	
17	Return Requirements	192,747	193,214	193,592	193,901	194,138	194,277	194,309	194,234	194,054	193,767	193,374	192,869	2,324,476	
18															
19	<b>Program Total</b>	<b>\$1,186,299</b>	<b>\$1,202,047</b>	<b>\$1,214,302</b>	<b>\$1,223,964</b>	<b>\$1,237,177</b>	<b>\$1,253,672</b>	<b>\$1,270,259</b>	<b>\$1,286,452</b>	<b>\$1,302,512</b>	<b>\$1,318,603</b>	<b>\$1,334,585</b>	<b>\$1,350,900</b>	<b>\$1,367,772</b>	
<b>20</b>	<b>Residential Energy Management - NGDR Hardware for ODS, LMS, APPDEV. Also includes NGDR TELECOM. (D)</b>														
21	Expenditures Booked Directly to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
22	Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	Investments Booked to CWIP	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	Closings to Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Depreciation Base	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	
26															
27	Depreciation Expense	122,689	122,689	122,689	122,689	122,689	122,689	122,689	122,689	122,689	122,689	122,689	122,689	1,472,268	
28															
29	Cumulative Plant Investment	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	
30	Less Accumulated Depreciation	7,408,702	7,531,391	7,654,080	7,776,769	7,899,458	8,022,147	8,144,836	8,267,525	8,390,214	8,512,903	8,635,592	8,758,281	8,880,970	
31	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	
32	Net Plant Investment	3,178,689	3,056,000	2,933,311	2,810,622	2,687,933	2,565,244	2,442,555	2,319,866	2,197,177	2,074,488	1,951,799	1,829,110	1,706,421	
33	Average Investment	3,117,345	2,994,656	2,871,967	2,749,278	2,626,589	2,503,900	2,381,211	2,258,522	2,135,833	2,013,144	1,890,455	1,767,766	1,654,798	
34	Return on Average Investment	16,579	15,926	15,273	14,621	13,969	13,316	12,664	12,011	11,359	10,706	10,054	9,401	155,879	
35															
36	Return Requirements	20,368	19,566	18,764	17,963	17,162	16,359	15,558	14,756	13,955	13,153	12,352	11,550	191,506	
37															
38	<b>Program Total</b>	<b>\$143,057</b>	<b>\$142,255</b>	<b>\$141,453</b>	<b>\$140,652</b>	<b>\$139,851</b>	<b>\$139,048</b>	<b>\$138,247</b>	<b>\$137,445</b>	<b>\$136,644</b>	<b>\$135,842</b>	<b>\$135,041</b>	<b>\$134,239</b>	<b>\$1,663,774</b>	
<b>39</b>	<b>Residential Energy Management - NGDR Software for ODS, LMS, APPDEV. (D)</b>														
40	Expenditures Booked Directly to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
41	Retirements	49,149	119,856	459,532	426,261	41,166	41,166	41,166	41,166	41,166	41,166	41,166	41,166	1,054,798	
42	Investments Booked to CWIP	41,166	41,166	41,166	41,166	41,166	41,166	41,166	41,166	41,166	41,166	41,166	41,166	493,992	
43	Closings to Plant	0	0	0	0	0	0	0	0	0	0	0	0	493,992	
44	Depreciation Base	17,874,462	17,789,959	17,500,265	17,057,369	16,844,238	16,844,238	16,844,238	16,844,238	16,844,238	16,844,238	16,844,238	16,844,238	16,844,238	
45															
46	Depreciation Expense	297,914	296,505	291,677	284,295	280,743	280,743	280,743	280,743	280,743	280,743	280,743	280,743	3,416,335	
47															
48	Cumulative Plant Investment	17,899,036	17,849,887	17,730,031	17,270,499	16,844,238	16,844,238	16,844,238	16,844,238	16,844,238	16,844,238	16,844,238	16,844,238	17,338,230	
49	Less Accumulated Depreciation	13,318,331	13,567,096	13,743,744	13,575,890	13,433,924	13,174,667	13,095,410	14,276,153	14,556,896	14,837,639	15,118,382	15,399,125	15,679,868	
50	Cumulative CWIP Investment	0	41,166	82,332	123,498	164,664	205,830	246,996	288,162	329,328	370,494	411,660	452,826	0	
51	Net Plant Investment	4,580,705	4,232,957	4,086,618	3,818,107	3,574,978	3,335,401	3,095,824	2,856,247	2,616,670	2,377,093	2,137,516	1,897,839	1,658,362	
52	Average Investment	4,452,331	4,196,288	3,943,363	3,696,543	3,455,190	3,215,613	2,976,036	2,736,459	2,496,882	2,257,305	2,017,728	1,778,151	1,538,218	
53	Return on Average Investment	23,678	22,317	20,972	19,659	18,375	17,102	15,827	14,553	13,279	12,005	10,731	9,456	197,954	
54															
55	Return Requirements	29,090	27,418	25,765	24,152	22,575	21,011	19,444	17,879	16,314	14,749	13,184	11,617	243,198	
56															
57	<b>Program Total</b>	<b>\$327,004</b>	<b>\$323,923</b>	<b>\$317,442</b>	<b>\$308,447</b>	<b>\$303,318</b>	<b>\$301,754</b>	<b>\$300,187</b>	<b>\$298,622</b>	<b>\$297,057</b>	<b>\$295,492</b>	<b>\$293,927</b>	<b>\$292,360</b>	<b>\$3,659,533</b>	
<b>58</b>	<b>Residential Energy Management - Load Management Switches (9080120) (D)</b>														
59	Expenditures Booked Directly to Plant	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	\$1,031,497	
60	Retirements	22,015	38,298	20,119	34,719	44,892	55,407	21,054	89,890	24,267	73,394	24,668	19,943	468,666	
61	Investments Booked to CWIP	0	0	0	0	0	0	0	0	0	0	0	0	0	
62	Closings to Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	
63	Amortization Base	34,376,270	35,377,610	36,379,899	37,383,976	38,375,668	39,357,015	40,350,282	41,326,306	42,300,725	43,283,391	44,265,858	45,275,049	45,275,049	
64															
65	Amortization Expense	572,949	589,639	606,344	623,079	639,607	655,963	672,518	688,786	705,026	721,404	737,779	754,599	7,967,693	
66															
67	Cumulative Plant Investment	34,387,277	35,396,759	36,389,958	37,401,336	38,398,114	39,384,719	40,360,809	41,371,252	42,312,858	43,220,088	44,278,191	45,285,021	46,296,575	
68	Less Accumulated Depreciation	12,685,650	13,236,584	13,787,925	14,374,150	14,962,509	15,557,225	16,157,781	16,809,244	17,408,140	18,088,899	18,736,909	19,450,021	20,184,677	
69	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	
70	Net Plant Investment	21,701,627	22,160,175	22,602,033	23,027,186	23,435,604	23,827,494	24,203,028	24,562,007	24,904,718	25,231,189	25,541,262	25,835,000	26,111,898	
71	Average Investment	21,930,901	22,381,104	22,814,610	23,231,395	23,631,549	24,015,261	24,382,518	24,733,363	25,067,954	25,396				

Duke Energy Florida, LLC  
Energy Conservation Cost Recovery  
Program Costs  
January - June 2018 Actuals  
July - December 2018 Estimates

FPSC Docket No. 20180002-EG  
Duke Energy Florida, LLC  
Witness Lori J. Cross  
Exhibit No. (LJC-1P)  
Schedule C-3  
Page 1 of 8

Line No.	Program Demand (D) or Energy (E)	Depreciation		Operating & Maintenance Costs						Program Revenues (Credits)	Total
		Amortization & Return	Payroll & Benefits	Vehicles	Outside Services	Materials & Supplies	Advertising	Incentives	Other		
1	<u>Home Energy Check (E)</u>										
2	A. Actual	\$7,644	\$1,421,565	\$47,129	\$531,233	\$48,204	\$326,453	\$255,866	\$70,269	\$0	\$2,708,364
3	B. Estimated	7,380	1,380,000	51,000	510,000	54,000	350,000	234,000	66,000	0	2,652,380
4											
5	C. Total	\$15,024	\$2,801,565	\$98,129	\$1,041,233	\$102,204	\$676,453	\$489,866	\$136,269	\$0	\$5,360,744
6											
7	<u>Residential Incentive Program (E)</u>										
8	A. Actual	\$0	\$1,169,127	\$39,584	\$97,096	\$15,187	(\$9,028)	\$2,760,121	\$19,114	\$0	\$4,091,201
9	B. Estimated	0	1,164,000	40,500	93,000	14,500	32,500	2,460,000	18,000	0	3,822,500
10											
11	C. Total	\$0	\$2,333,127	\$80,084	\$190,096	\$29,687	\$23,472	\$5,220,121	\$37,114	\$0	\$7,913,701
12											
13	<u>Business Energy Check (E)</u>										
14	A. Actual	\$4,119	\$212,477	\$4,403	\$14,610	\$4,858	\$5,938	\$12,227	\$10,486	\$0	\$269,118
15	B. Estimated	0	211,800	4,000	15,000	600	9,200	12,227	12,000	0	264,827
16											
17	C. Total	\$4,119	\$424,277	\$8,403	\$29,610	\$5,458	\$15,138	\$24,454	\$22,486	\$0	\$533,945
18											
19	<u>Better Business (E)</u>										
20	A. Actual	\$0	\$613,732	\$5,846	\$62,083	\$2,662	\$18,913	\$810,019	\$13,610	\$0	\$1,526,864
21	B. Estimated	0	613,500	4,875	31,500	3,000	10,000	750,000	8,400	0	1,421,275
22											
23	C. Total	\$0	\$1,227,232	\$10,721	\$93,583	\$5,662	\$28,913	\$1,560,019	\$22,010	\$0	\$2,948,139
24											
25	<u>Technology Development (E)</u>										
26	A. Actual	\$0	\$132,723	\$3	\$2,181	\$12,712	\$0	\$0	\$6,022	\$0	\$153,641
27	B. Estimated	0	105,898	0	210,000	6,000	0	0	10,000	0	331,898
28											
29	C. Total	\$0	\$238,621	\$3	\$212,181	\$18,712	\$0	\$0	\$16,022	\$0	\$485,539
30											
31	<u>Florida Custom Incentive Program (E)</u>										
32	A. Actual	\$0	\$87,233	\$125	\$95,752	\$5,369	\$25,735	\$45,790	\$1,049	\$0	\$261,053
33	B. Estimated	0	60,000	210	51,536	120	12,000	120,000	1,200	0	245,066
34											
35	C. Total	\$0	\$147,233	\$335	\$147,288	\$5,489	\$37,735	\$165,790	\$2,249	\$0	\$506,119
36											
37	<u>Interruptible Service (D)</u>										
38	A. Actual	\$7,906	\$130,752	\$323	\$68	\$714	\$0	\$17,573,696	\$1,252	\$0	\$17,714,712
39	B. Estimated	12,169	150,813	1,500	0	600	0	17,964,714	2,221	0	18,132,018
40											
41	C. Total	\$20,075	\$281,565	\$1,823	\$68	\$1,314	\$0	\$35,538,410	\$3,473	\$0	\$35,846,729

Duke Energy Florida, LLC  
Energy Conservation Cost Recovery  
Program Costs  
January - June 2018 Actuals  
July - December 2018 Estimates

Line No.	Program Demand (D) or Energy (E)	Depreciation Amortization & Return	Operating & Maintenance Costs							Program Revenues (Credits)	Total
			Payroll & Benefits	Vehicles	Outside Services	Materials & Supplies	Advertising	Incentives	Other		
1	<u>Curtailable Service (D)</u>										
2	A. Actual	\$0	\$20,359	\$0	\$0	\$0	\$0	\$1,025,731	\$187	\$0	\$1,046,277
3	B. Estimated	0	20,455	0	0	0	0	968,994	0	0	989,449
4											
5	C. Total	\$0	\$40,814	\$0	\$0	\$0	\$0	\$1,994,725	\$187	\$0	\$2,035,726
6											
7	<u>Neighborhood Energy Saver (E)</u>										
8	A. Actual	\$0	\$107,136	\$638	\$158,602	\$889	\$56,517	\$1,042,542	\$15,653	\$0	\$1,381,977
9	B. Estimated	0	107,400	250	174,000	0	18,000	1,526,000	7,500	0	1,833,150
10											
11	C. Total	\$0	\$214,536	\$888	\$332,602	\$889	\$74,517	\$2,568,542	\$23,153	\$0	\$3,215,127
12											
13	<u>Energy Management (Residential &amp; Commercial) (D)</u>										
14	A. Actual	\$6,368,265	\$948,581	\$29,987	\$1,027,161	\$67,564	\$482,556	\$12,171,819	\$31,852	\$0	\$21,127,785
15	B. Estimated	6,863,521	929,989	40,791	600,000	5,276	487,278	12,362,522	30,119	0	21,319,495
16											
17	C. Total	\$13,231,786	\$1,878,570	\$70,778	\$1,627,161	\$72,840	\$969,833	\$24,534,341	\$61,971	\$0	\$42,447,280
18											
19	<u>Low Income Weatherization Assistance Program (E)</u>										
20	A. Actual	\$0	\$66,605	\$0	\$1,139	\$0	\$16,000	\$62,546	\$5,556	\$0	\$151,846
21	B. Estimated	0	66,600	0	1,140	0	18,000	74,000	5,500	0	165,240
22											
23	C. Total	\$0	\$133,205	\$0	\$2,279	\$0	\$34,000	\$136,546	\$11,056	\$0	\$317,086
24											
25	<u>Standby Generation (D)</u>										
26	A. Actual	\$7,248	\$163,823	\$2,686	\$1,891	\$12,456	\$0	\$1,909,711	\$1,098	\$0	\$2,098,912
27	B. Estimated	5,269	159,967	4,008	3,600	112,500	0	2,027,376	4,770	0	2,317,489
28											
29	C. Total	\$12,517	\$323,789	\$6,694	\$5,491	\$124,956	\$0	\$3,937,087	\$5,868	\$0	\$4,416,401
30											
31	<u>Qualifying Facility (E)</u>										
32	A. Actual	\$0	\$569,092	\$1,088	\$0	\$48	\$0	\$0	\$15,474	\$0	\$585,701
33	B. Estimated	0	594,000	2,760	30,000	155	0	0	14,100	0	641,015
34											
35	C. Total	\$0	\$1,163,092	\$3,848	\$30,000	\$203	\$0	\$0	\$29,574	\$0	\$1,226,716
36											
37	<u>Conservation Program Admin (E)</u>										
38	A. Actual	\$0	\$1,260,688	\$792	\$388,823	\$48,386	\$0	\$0	\$199,551	\$0	\$1,898,240
39	B. Estimated	0	1,326,000	4,800	240,000	21,000	0	0	240,000	0	1,831,800
40											
41	C. Total	\$0	\$2,586,688	\$5,592	\$628,823	\$69,386	\$0	\$0	\$439,551	\$0	\$3,730,040
42	<b>ECCR Program Costs</b>	<b>\$13,283,521</b>	<b>\$13,794,314</b>	<b>\$287,298</b>	<b>\$4,340,416</b>	<b>\$436,800</b>	<b>\$1,860,062</b>	<b>\$76,169,900</b>	<b>\$810,982</b>	<b>\$0</b>	<b>\$110,983,292</b>

Duke Energy Florida, LLC  
**Energy Conservation Cost Recovery**  
**Schedule of Capital Investment, Depreciation & Return**  
 January - June 2018 Actuals  
 July - December 2018 Estimates

FPSC Docket No. 20180002-EG  
 Duke Energy Florida, LLC  
 Witness: Lori J. Cross  
 Exhibit No. (LJC-1P)  
 Schedule C-3  
 Page 3 of 8

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Act Jan-18	Act Feb-18	Act Mar-18	Act Apr-18	Act May-18	Act Jun-18	Est Jul-18	Est Aug-18	Est Sep-18	Est Oct-18	Est Nov-18	Est Dec-18	Total
1	<b>Home Energy Check (E)</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	82,462
5															
6	Depreciation Expense		982	982	982	982	982	982	982	982	982	982	982	982	11,784
7															
8	Cumulative 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 Depreciation	37,330	38,312	39,294	40,276	41,258	42,240	43,222	44,204	45,186	46,168	47,150	48,132	49,114	49,114
10	Net Investment	45,132	44,150	43,168	42,186	41,204	40,222	39,240	38,258	37,276	36,294	35,312	34,330	33,348	33,348
11	Average Investment		44,641	43,659	42,677	41,695	40,713	39,731	38,749	37,767	36,785	35,803	34,821	33,839	33,839
12	Return on Average Investment		250	244	239	233	227	223	214	208	203	198	192	186	2,617
13															
14	Return Requirements		309	302	296	288	281	276	265	258	252	245	238	230	3,240
15															
16	Program Total		\$1,291	\$1,284	\$1,278	\$1,270	\$1,263	\$1,258	\$1,247	\$1,240	\$1,234	\$1,227	\$1,220	\$1,212	\$15,024
17	<b>Business Energy Check (E)</b>														
18	Investments		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	Retirements		0	0	0	69,415	0	0	0	0	0	0	0	0	69,415
20	Depreciation Base		69,415	69,415	69,415	34,707	0	0	0	0	0	0	0	0	0
21															
22	Depreciation Expense		1,157	1,157	1,157	596	0	0	0	0	0	0	0	0	4,067
23															
24	Cumulative Investment	69,415	69,415	69,415	69,415	0	0	0	0	0	0	0	0	0	0
25	Less: Accumulated Depreciation	65,348	66,505	67,662	68,819	0	0	0	0	0	0	0	0	0	0
26	Net Investment	4,067	2,910	1,753	596	0.00	0	0	0	0	0	0	0	0	0
27	Average Investment		3,488	2,331	1,174	298	0	0	0	0	0	0	0	0	0
28	Return on Average Investment		20	13	7	2	0	0	0	0	0	0	0	0	42
29															
30	Return Requirements		25	16	9	2	0	0	0	0	0	0	0	0	52
31															
32	Program Total		\$1,182	\$1,173	\$1,166	\$598	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,119
33	<b>Standby Generation (D)</b>														
34	Investments		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000	\$20,000
35	Retirements		0	0	43,836	0	0	0	0	0	0	0	0	0	43,836
36	Depreciation Base		91,374	91,374	69,456	47,538	47,538	47,538	47,538	47,538	47,538	47,538	47,538	47,538	47,538
37															
38	Depreciation Expense		1,523	1,523	1,158	792	792	792	792	792	792	792	792	792	11,332
39															
40	Cumulative Investment	91,374	91,374	91,374	47,538	47,538	47,538	47,538	47,538	47,538	47,538	47,538	47,538	67,538	67,538
41	Less: Accumulated Depreciation	71,512	73,035	74,558	31,880	32,672	33,464	34,256	35,048	35,840	36,632	37,424	38,216	39,008	39,008
42	Net Investment	19,862	18,339	16,816	15,658	14,866	14,074	13,282	12,490	11,698	10,906	10,114	9,322	8,530	28,530
43	Average Investment		19,101	17,578	16,237	15,262	14,470	13,678	12,886	12,094	11,302	10,510	9,718	8,926	18,926
44	Return on Average Investment		107	99	91	86	81	77	71	67	63	58	54	104	958
45															
46	Return Requirements		132	122	113	106	100	95	88	83	78	72	67	129	1,185
47															
48	Program Total		\$1,655	\$1,645	\$1,271	\$898	\$892	\$887	\$880	\$875	\$870	\$864	\$859	\$921	\$12,517

Notes:  
 - Jan - Jun return on average investment is calculated using an annual rate of 6.71% based on May 2017 DEF Surveillance Report capital structure & costs 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 6.62% based on May 2018 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 25.345%.

Duke Energy Florida, LLC  
 Energy Conservation Cost Recovery  
 Schedule of Capital Investment, Depreciation & Return  
 January - June 2018 Actuals  
 July - December 2018 Estimates

FPSC Docket No. 20180002-EG  
 Duke Energy Florida, LLC  
 Witness: Lori J. Cross  
 Exhibit No. (LJC-1P)  
 Schedule C-3  
 Page 4 of 8

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Act Jan-18	Act Feb-18	Act Mar-18	Act Apr-18	Act May-18	Act Jun-18	Est Jul-18	Est Aug-18	Est Sep-18	Est Oct-18	Est Nov-18	Est Dec-18	Total
1	<b>Interruptible Service (D)</b>														
2	Investments		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$62,000	\$0	\$0	\$0	\$62,000
3	Retirements		0	0	165	0	0	0	0	0	0	0	0	0	165
4	Depreciation Base		63,838	63,838	63,756	63,673	63,673	63,673	63,673	63,673	63,673	125,673	125,673	125,673	
5															
6	Depreciation Expense		1,064	1,064	1,063	1,061	1,061	1,061	1,061	1,061	1,061	2,095	2,095	2,095	15,842
7															
8	Cumulative Investment	63,838	63,838	63,838	63,673	63,673	63,673	63,673	63,673	63,673	125,673	125,673	125,673	125,673	125,673
9	Less: Accumulated Depreciation	23,758	24,822	25,886	26,784	27,845	28,906	29,967	31,028	32,089	33,150	35,245	37,340	39,435	39,435
10	Net Investment	40,080	39,016	37,952	36,889	35,828	34,767	33,706	32,645	31,584	30,523	29,428	28,333	27,238	86,238
11	Average Investment		39,548	38,484	37,421	36,359	35,298	34,237	33,176	32,115	31,054	29,954	28,859	27,764	87,286
12	Return on Average Investment		221	216	209	203	197	192	183	177	171	165	159	153	3,419
13															
14	Return Requirements		274	267	259	251	244	237	227	219	211	203	195	187	4,233
15															
16	Program Total		\$1,338	\$1,331	\$1,322	\$1,312	\$1,305	\$1,298	\$1,288	\$1,280	\$1,484	\$2,721	\$2,705	\$2,691	\$20,075
17	<b>Residential Energy Management - Summary (Itemized below) (D)</b>														
18	Expenditures Booked Directly to Plant		\$791,351	\$611,611	\$903,634	\$983,421	\$611,854	\$1,067,446	\$916,175	\$916,175	\$916,175	\$916,175	\$916,175	\$916,175	\$10,466,367
19	Retirements		45,307	27,438	62,516	22,550	28,922	23,246	12,183	17,719	39,975	31,979	20,040	14,694	346,569
20	Investments Booked to CWIP		0	0	0	0	0	0	0	0	0	0	0	0	0
21	Closings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
22	Depreciation Base		52,731,253	53,486,232	54,052,865	54,913,966	55,871,651	56,457,421	57,507,152	58,408,376	59,295,704	60,175,902	61,066,068	61,964,876	
23															
24	Depreciation Expense		825,101	837,684	849,031	861,480	877,442	887,205	904,700	919,721	934,510	949,180	964,017	978,997	10,789,068
25															
26	Cumulative Plant Investment	52,753,907	53,499,951	54,084,124	54,925,242	55,886,112	56,469,044	57,513,244	58,417,236	59,315,692	60,191,892	61,076,088	61,972,223	62,873,704	62,873,704
27	Less: Accumulated Depreciation	22,970,184	23,749,978	24,560,224	25,346,739	26,185,668	27,034,188	27,898,148	28,790,664	29,692,667	30,587,201	31,504,402	32,448,380	33,412,683	33,412,683
28	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Net Plant Investment	29,783,723	29,749,972	29,523,900	29,578,503	29,700,443	29,434,856	29,615,096	29,626,571	29,623,025	29,604,690	29,571,685	29,523,843	29,461,021	29,461,021
30	Average Investment		29,766,848	29,636,936	29,551,201	29,639,473	29,567,650	29,524,976	29,620,834	29,624,798	29,613,858	29,588,188	29,547,764	29,492,432	
31	Return on Average Investment		166,556	165,828	165,346	165,842	165,439	165,202	163,365	163,387	163,327	163,183	162,961	162,656	1,973,092
32															
33	Return Requirements		206,111	205,209	204,611	205,226	204,729	204,436	202,337	202,363	202,289	202,112	201,836	201,459	2,442,718
34															
35	Program Total		\$1,031,212	\$1,042,893	\$1,053,642	\$1,066,706	\$1,082,171	\$1,091,641	\$1,107,037	\$1,122,084	\$1,136,799	\$1,151,292	\$1,165,853	\$1,180,456	\$13,231,786
36	<b>Residential Energy Management - SmartGrid Hardware for ODS, LMS, APPDEV &amp; TELECOM (D)</b>														
37	Expenditures Booked Directly to Plant		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
38	Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
39	Investments Booked to CWIP		0	0	0	0	0	0	0	0	0	0	0	0	0
40	Closings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
41	Depreciation Base		10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	
42															
43	Depreciation Expense		122,689	122,689	122,689	122,689	122,689	122,689	122,689	122,689	122,689	122,689	122,689	122,689	1,472,268
44															
45	Cumulative Plant Investment	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391	10,587,391
46	Less: Accumulated Depreciation	5,936,434	6,059,123	6,181,812	6,304,501	6,427,190	6,549,879	6,672,568	6,795,257	6,917,946	7,040,635	7,163,324	7,286,013	7,408,702	7,408,702
47	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Net Plant Investment	4,650,957	4,528,268	4,405,579	4,282,890	4,160,201	4,037,512	3,914,823	3,792,134	3,669,445	3,546,756	3,424,067	3,301,378	3,178,689	3,178,689
49	Average Investment		4,589,613	4,466,924	4,344,235	4,221,546	4,098,857	3,976,168	3,853,479	3,730,790	3,608,101	3,485,412	3,362,723	3,240,034	
50	Return on Average Investment		25,681	24,994	24,307	23,621	22,934	22,248	21,563	20,877	20,191	19,505	18,819	18,133	261,151
51															
52	Return Requirements		31,780	30,930	30,079	29,230	28,381	27,532	26,683	25,834	24,985	24,136	23,287	22,438	323,296
53															
54	Program Total		\$154,469	\$153,619	\$152,768	\$151,919	\$151,070	\$150,221	\$149,012	\$148,173	\$147,336	\$146,497	\$145,659	\$144,821	\$1,795,564

Notes:

- Jan - Jun return on average investment is calculated using an annual rate of 6.71% based on May 2017 DEF Surveillance Report capital structure & costs 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 6.62% based on May 2018 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 25.345%.

Duke Energy Florida, LLC  
 Energy Conservation Cost Recovery  
 Schedule of Capital Investment, Depreciation & Return  
 January - June 2018 Actuals  
 July - December 2018 Estimates

FPSC Docket No. 20180002-EG  
 Duke Energy Florida, LLC  
 Witness: Lori J. Cross  
 Exhibit No. (LJC-1P)  
 Schedule C-3  
 Page 5 of 8

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Act Jan-18	Act Feb-18	Act Mar-18	Act Apr-18	Act May-18	Act Jun-18	Est Jul-18	Est Aug-18	Est Sep-18	Est Oct-18	Est Nov-18	Est Dec-18	Total
1	<b>Residential Energy Management - SmartGrid Software for ODS, LMS, APPDEV (D)</b>														
2	Expenditures Booked Directly to Plant	\$0	\$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	0
4	Investments Booked to CWIP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Closings to Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Depreciation Base	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	
7															
8	Depreciation Expense	298,323	298,323	298,323	298,323	298,323	298,323	298,323	298,323	298,323	298,323	298,323	298,323	298,323	3,579,876
9															
10	Cumulative Plant Investment	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036	17,899,036
11	Less: Accumulated Depreciation	9,738,455	10,036,778	10,335,101	10,633,424	10,931,747	11,230,070	11,528,393	11,826,716	12,125,039	12,423,362	12,721,685	13,020,008	13,318,331	13,318,331
12	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Net Plant Investment	8,160,581	7,862,258	7,563,935	7,265,612	6,967,289	6,668,966	6,370,643	6,072,320	5,773,997	5,475,674	5,177,351	4,879,028	4,580,705	4,580,705
14	Average Investment	8,011,420	7,713,097	7,414,774	7,116,451	6,818,128	6,519,805	6,221,482	5,923,159	5,624,836	5,326,513	5,028,190	4,729,867	4,431,544	4,431,544
15	Return on Average Investment	44,827	43,157	41,487	39,819	38,149	36,481	34,813	33,145	31,477	29,809	28,141	26,473	24,805	24,805
16															
17	Return Requirements	55,473	53,406	51,339	49,275	47,209	45,145	42,999	40,861	38,723	36,585	34,447	32,309	30,171	526,268
18															
19	Program Total	\$353,796	\$351,729	\$349,662	\$347,598	\$345,532	\$343,468	\$340,822	\$338,784	\$336,745	\$334,707	\$332,669	\$330,632	\$328,594	\$4,106,144
20	<b>Residential Energy Management - SmartGrid AMI Meters (D)</b>														
21	Expenditures Booked Directly to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
22	Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Investments Booked to CWIP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Closings to Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Depreciation Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26															
27	Depreciation Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28															
29	Cumulative Plant Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Net Plant Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Average Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Return on Average Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35															
36	Return Requirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37															
38	Program Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
39	<b>Residential Energy Management - Non-SmartGrid Residential Projects (D)</b>														
40	Expenditures Booked Directly to Plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
41	Retirements	0	0	33,526	0	0	0	0	0	0	0	0	0	0	33,526
42	Investments Booked to CWIP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Closings to Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Depreciation Base	33,526	33,526	16,763	0	0	0	0	0	0	0	0	0	0	0
45															
46	Depreciation Expense	559	559	2,183	0	0	0	0	0	0	0	0	0	0	3,301
47															
48	Cumulative Plant Investment	33,526	33,526	33,526	0	0	0	0	0	0	0	0	0	0	0
49	Less: Accumulated Depreciation	30,225	30,784	31,343	0	0	0	0	0	0	0	0	0	0	0
50	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	Net Plant Investment	3,301	2,742	2,183	0	0	0	0	0	0	0	0	0	0	0
52	Average Investment	3,022	2,463	1,904	0	0	0	0	0	0	0	0	0	0	0
53	Return on Average Investment	17	14	6	0	0	0	0	0	0	0	0	0	0	37
54															
55	Return Requirements	21	17	7	0	0	0	0	0	0	0	0	0	0	45
56															
57	Program Total	\$580	\$576	\$2,190	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,346

Notes:

- Jan - Jun return on average investment is calculated using an annual rate of 6.71% based on May 2017 DEF Surveillance Report capital structure & costs 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 6.62% based on May 2018 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 25.345%.

Duke Energy Florida, LLC  
Energy Conservation Cost Recovery  
Schedule of Capital Investment, Depreciation & Return  
January - June 2018 Actuals  
July - December 2018 Estimates

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Act Jan 18	Act Feb 18	Act Mar 18	Act Apr 18	Act May 18	Act Jun 18	Est Jul 18	Est Aug 18	Est Sep 18	Est Oct 18	Est Nov 18	Est Dec 18	Total
1	<b>Residential Energy Management - Load Management Switches (D)</b>														
2	Expenditures Booked Directly to Plant		\$791,351	\$611,611	\$903,634	\$983,421	\$611,854	\$1,067,446	\$916,175	\$916,175	\$916,175	\$916,175	\$916,175	\$916,175	\$10,466,367
3	Retirements		45,307	27,438	28,990	22,550	28,922	23,246	12,183	17,719	39,975	31,979	20,040	14,694	313,043
4	Investments Booked to CWIP		0	0	0	0	0	0	0	0	0	0	0	0	0
5	Closings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
6	Amortization Base		24,211,300	24,966,279	25,549,675	26,427,539	27,385,224	27,970,994	29,020,725	29,921,949	30,809,277	31,689,475	32,579,641	33,478,449	
7															
8	Amortization Expense		403,530	416,113	425,836	440,468	456,430	466,193	483,688	498,709	513,498	528,168	543,005	557,985	5,733,623
9															
10	Cumulative Plant Investment	24,233,953	24,979,998	25,564,171	26,438,814	27,399,685	27,982,617	29,026,817	29,930,808	30,829,265	31,705,464	32,589,661	33,485,796	34,387,277	34,387,277
11	Less: Accumulated Depreciation	7,265,070	7,623,293	8,011,968	8,408,814	8,826,731	9,254,239	9,697,187	10,168,691	10,649,682	11,123,204	11,619,393	12,142,359	12,685,650	12,685,650
12	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Net Plant Investment	16,968,883	17,356,704	17,552,202	18,030,000	18,572,953	18,728,378	19,329,630	19,762,117	20,179,583	20,582,260	20,970,267	21,343,437	21,701,627	21,701,627
14	Average Investment		17,162,794	17,454,453	17,791,101	18,301,477	18,650,665	19,029,004	19,545,874	19,970,850	20,380,922	20,776,264	21,156,852	21,522,532	
15	Return on Average Investment		96,031	97,663	99,546	102,402	104,356	106,473	107,799	110,143	112,405	114,585	116,684	118,701	1,286,788
16															
17	Return Requirements		118,837	120,856	123,186	126,721	129,139	131,759	133,515	136,418	139,220	141,920	144,520	147,018	1,593,109
18															
19	Program Total		\$522,367	\$536,969	\$549,022	\$567,189	\$585,569	\$597,952	\$617,203	\$635,127	\$652,718	\$670,088	\$687,525	\$705,003	\$7,326,732
20	<b>Summary of Demand &amp; Energy</b>														
21	Energy		\$2,473	\$2,457	\$2,444	\$1,868	\$1,263	\$1,258	\$1,247	\$1,240	\$1,234	\$1,227	\$1,220	\$1,212	\$19,143
22	Demand		1,034,205	1,045,869	1,056,235	1,068,916	1,084,368	1,093,826	1,109,205	1,124,239	1,139,153	1,154,877	1,169,417	1,184,068	13,264,378
23	Total Return & Depreciation		\$1,036,678	\$1,048,326	\$1,058,679	\$1,070,784	\$1,085,631	\$1,095,084	\$1,110,452	\$1,125,479	\$1,140,387	\$1,156,104	\$1,170,637	\$1,185,280	\$13,283,521

Notes:

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- Jul - Dec return on average investment is calculated using an annual rate of 6.62% based on May 2018 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 25.345%.

Duke Energy Florida, LLC  
 Energy Conservation Cost Recovery  
 Calculation of Interest Provision  
 January 2018 - December 2018

Line No.	Act Jan-18	Act Feb-18	Act Mar-18	Act Apr-18	Act May-18	Act Jun-18	Est Jul-18	Est Aug-18	Est Sep-18	Est Oct-18	Est Nov-18	Est Dec-18	Total
1 Beginning True-Up Amount (C3, Page 8, Lines 7 & 8)	(\$5,894,546)	(\$5,215,291)	(\$4,434,323)	(\$3,376,991)	(\$2,875,705)	(\$2,620,334)	(\$2,817,302)	(\$4,667,247)	(\$7,002,365)	(\$9,070,072)	(\$10,011,448)	(\$9,320,702)	
2 Ending True-Up Amount Before Interest (C3, Page 8, Lines 5,7-10)	(5,208,259)	(4,428,135)	(3,371,332)	(2,870,876)	(2,616,089)	(2,812,955)	(4,661,077)	(6,992,746)	(9,056,823)	(9,995,719)	(9,304,766)	(8,300,242)	
3 Total Beginning & Ending True-Up (Line 1 + Line 2)	<u>(11,102,805)</u>	<u>(9,643,426)</u>	<u>(7,805,654)</u>	<u>(6,247,867)</u>	<u>(5,491,794)</u>	<u>(5,433,290)</u>	<u>(7,478,379)</u>	<u>(11,659,993)</u>	<u>(16,059,188)</u>	<u>(19,065,791)</u>	<u>(19,316,214)</u>	<u>(17,620,944)</u>	
4 Average True-Up Amount (50% of Line 3)	<u>(5,551,403)</u>	<u>(4,821,713)</u>	<u>(3,902,827)</u>	<u>(3,123,933)</u>	<u>(2,745,897)</u>	<u>(2,716,645)</u>	<u>(3,739,190)</u>	<u>(5,829,996)</u>	<u>(8,029,594)</u>	<u>(9,532,896)</u>	<u>(9,658,107)</u>	<u>(8,810,472)</u>	
5 Interest Rate: First Day Reporting Business Month	1.58%	1.46%	1.62%	1.86%	1.85%	1.86%	1.98%	1.98%	1.98%	1.98%	1.98%	1.98%	1.98%
6 Interest Rate: First Day Subsequent Business Month	1.46%	1.62%	1.86%	1.85%	1.86%	1.98%	1.98%	1.98%	1.98%	1.98%	1.98%	1.98%	1.98%
7 Total (Line 5 & Line 6) (Line 5 + Line 6)	<u>3.04%</u>	<u>3.08%</u>	<u>3.48%</u>	<u>3.71%</u>	<u>3.71%</u>	<u>3.84%</u>	<u>3.96%</u>	<u>3.96%</u>	<u>3.96%</u>	<u>3.96%</u>	<u>3.96%</u>	<u>3.96%</u>	<u>3.96%</u>
8 Average Interest Rate (50% of Line 7)	<u>1.520%</u>	<u>1.540%</u>	<u>1.740%</u>	<u>1.855%</u>	<u>1.855%</u>	<u>1.920%</u>	<u>1.980%</u>	<u>1.980%</u>	<u>1.980%</u>	<u>1.980%</u>	<u>1.980%</u>	<u>1.980%</u>	<u>1.980%</u>
9 Interest Provision (Line 4 * Line 8) / 12	<u>(\$7,032)</u>	<u>(\$6,188)</u>	<u>(\$5,659)</u>	<u>(\$4,829)</u>	<u>(\$4,245)</u>	<u>(\$4,347)</u>	<u>(\$6,170)</u>	<u>(\$9,619)</u>	<u>(\$13,249)</u>	<u>(\$15,729)</u>	<u>(\$15,936)</u>	<u>(\$14,537)</u>	<u>(\$107,540)</u>



Duke Energy Florida, LLC  
 Energy Conservation Cost Recovery  
 Energy Conservation Adjustment  
 Calculation of True-Up  
 January 2018 - December 2018

Line No.	Act Jan-18	Act Feb-18	Act Mar-18	Act Apr-18	Act May-18	Act Jun-18	Est Jul-18	Est Aug-18	Est Sep-18	Est Oct-18	Est Nov-18	Est Dec-18	Total	
1	ECCR Revenues	\$8,332,326	\$8,855,241	\$8,443,318	\$8,027,967	\$8,322,867	\$9,924,426	\$11,134,104	\$11,630,855	\$11,374,722	\$10,261,628	\$8,643,832	\$8,344,698	\$113,295,985
2	Prior Period True-Up Over/(Under) Recovery	491,212	491,212	491,212	491,212	491,212	491,212	491,212	491,212	491,212	491,212	491,212	491,212	5,894,544
3	ECCR Revenues Applicable to Period	8,823,538	9,346,453	8,934,530	8,519,179	8,814,079	10,415,638	11,625,316	12,122,067	11,865,934	10,752,840	9,135,044	8,835,910	119,190,529
4	ECCR Expenses	9,018,614	9,642,397	9,506,310	8,534,082	8,582,483	9,731,805	9,290,329	9,305,356	9,320,264	9,335,981	9,350,514	9,365,157	110,983,292
5	True-Up This Period (Over)/Under Recovery	195,076	295,944	571,779	14,903	(231,596)	(683,833)	(2,334,987)	(2,816,711)	(2,545,670)	(1,416,859)	215,470	529,248	(8,207,237)
6	Current Period Interest	(7,032)	(6,188)	(5,659)	(4,829)	(4,245)	(4,347)	(6,170)	(9,619)	(13,249)	(15,729)	(15,936)	(14,537)	(107,540)
7	Audit Adjustments	0	0	0	0	0	0	0	0	0	0	0	0	0
8	True-Up & Interest Provision Beginning of Period	(5,894,546)	(5,215,291)	(4,434,323)	(3,376,991)	(2,875,705)	(2,620,334)	(2,817,302)	(4,667,247)	(7,002,365)	(9,070,072)	(10,011,448)	(9,320,702)	(5,894,546)
9	GRT Refunded	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Prior Period True-Up Over/(Under) Recovery	491,212	491,212	491,212	491,212	491,212	491,212	491,212	491,212	491,212	491,212	491,212	491,212	5,894,544
11	End of Period Net True-Up	(\$5,215,291)	(\$4,434,323)	(\$3,376,991)	(\$2,875,705)	(\$2,620,334)	(\$2,817,302)	(\$4,667,247)	(\$7,002,365)	(\$9,070,072)	(\$10,011,448)	(\$9,320,702)	(\$8,314,779)	(\$8,314,779)

Duke Energy Florida, LLC  
Energy Conservation Cost Recovery  
Calculation of ECCR Revenues  
January 2019 - December 2019

Line No.	Month	Jurisdictional mWh Sales	ECCR Revenue Net of Revenue Taxes
1	January	2,910,658	\$7,829,801
2	February	2,865,578	7,669,191
3	March	2,726,453	7,249,529
4	April	2,827,964	7,443,420
5	May	3,072,144	8,052,573
6	June	3,633,132	9,647,403
7	July	3,867,657	10,319,234
8	August	3,885,511	10,364,074
9	September	3,970,304	10,592,430
10	October	3,614,731	9,590,583
11	November	3,056,719	8,055,702
12	December	2,865,582	7,644,713
13	Total	39,296,432	\$104,458,654

**Duke Energy Florida, LLC  
Energy Conservation Cost Recovery  
Capital Structure and Cost Rates**

FPSC Docket No. 20180002-EG  
Duke Energy Florida, LLC  
Witness: Lori J. Cross  
Exhibit No. (LJC-1P)  
Schedule C-6  
Page 1 of 1

Class of Capital	Retail Amount	Ratio	Cost Rate	Weighted Cost Rate	PreTax Weighted Cost Rate
CE	\$4,711,485,475	44.73%	10.50%	4.70%	6.29%
LTD	3,931,532,102	37.33%	5.29%	1.97%	1.97%
STD	102,874,989	0.98%	0.21%	0.00%	0.00%
CD-Active	191,024,808	1.81%	2.26%	0.04%	0.04%
CD-Inactive	1,455,315	0.01%	0.00%	0.00%	0.00%
Deferred Tax	1,772,932,910	16.83%	0.00%	0.00%	0.00%
FAS 109	(180,390,549)	-1.71%	0.00%	0.00%	0.00%
ITC	1,967,889	0.02%	0.00%	0.00%	0.00%
<b>Total</b>	<b>\$10,532,882,939</b>	<b>100%</b>		<b>6.71%</b>	<b>8.31%</b>
			<b>Total Debt</b>	<b>2.018%</b>	<b>2.018%</b>
			<b>Total Equity</b>	<b>4.697%</b>	<b>6.291%</b>

May 2017 DEF Surveillance Report capital structure and cost rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Dockets 120001-EI, 120002-EI & 120007-EI.  
Used to Calculate January 2018 - June 2018

Class of Capital	Retail Amount	Ratio	Cost Rate	Weighted Cost Rate	PreTax Weighted Cost Rate
CE	\$5,022,459,234	44.29%	10.50%	4.65%	6.23%
LTD	4,497,051,945	39.66%	4.90%	1.94%	1.94%
STD	(193,058,184)	-1.70%	0.88%	-0.01%	-0.01%
CD-Active	179,648,841	1.58%	2.35%	0.04%	0.04%
CD-Inactive	1,597,098	0.01%	0.00%	0.00%	0.00%
Deferred Tax	1,826,908,909	16.11%	0.00%	0.00%	0.00%
ITC	5,239,408	0.05%	7.85%	0.00%	0.00%
<b>Total</b>	<b>\$11,339,847,250</b>	<b>100.00%</b>		<b>6.62%</b>	<b>8.20%</b>
			<b>Total Debt</b>	<b>1.968%</b>	<b>1.968%</b>
			<b>Total Equity</b>	<b>4.651%</b>	<b>6.229%</b>

May 2018 DEF Surveillance Report capital structure and cost rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Dockets 120001-EI, 120002-EI & 120007-EI.  
Used to Calculate July 2018 - December 2018

Class of Capital	Retail Amount	Ratio	Cost Rate	Weighted Cost Rate	PreTax Weighted Cost Rate
CE	\$ 4,374,787,363	40.92%	10.50%	4.30%	5.75%
LTD	4,497,051,945	42.06%	4.90%	2.06%	2.06%
STD	(193,058,184)	-1.81%	0.94%	-0.02%	-0.02%
CD-Active	179,648,841	1.68%	2.35%	0.04%	0.04%
CD-Inactive	1,597,098	0.01%	0.00%	0.00%	0.00%
Deferred Tax	1,826,908,909	17.09%	0.00%	0.00%	0.00%
ITC	5,239,408	0.05%	7.85%	0.00%	0.00%
<b>Total</b>	<b>\$ 10,692,175,379</b>	<b>100.00%</b>		<b>6.38%</b>	<b>7.84%</b>
			<b>Total Debt</b>	<b>2.086%</b>	<b>2.086%</b>
			<b>Total Equity</b>	<b>4.296%</b>	<b>5.755%</b>

May 2018 DEF Surveillance Report capital structure and cost rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Dockets 120001-EI, 120002-EI & 120007-EI.  
Consistent with Paragraph 9 of the RRSSA  
Used to Calculate January 2019 - December 2019

## **Program Description and Progress**

**Program Title:** Home Energy Check

**Program Description:** The Home Energy Check is a residential energy audit program that provides residential 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 DEF the opportunity to promote and directly install cost-effective measures in customers' homes while also educating and encouraging customers to implement energy-saving practices.

**Program Projections - January 2019 - December 2019:** It is estimated that 33,500 customers will participate in this program during the projection period.

**Program Fiscal Costs - January 2019 - December 2019:** Costs for this program are projected to be \$5,462,447.

**Program Progress Summary:** As of year-to-date, June 30, 2018, 18,902 customers have participated in this program. The Home Energy Check will continue to inform and motivate consumers on cost effective energy efficiency improvements which result in implementation of energy efficiency measures.

## **Program Description and Progress**

**Program Title:** Residential Incentive Program

**Program Description:** The Residential Incentive Program provides incentives to residential customers for energy efficiency improvements for both existing homes 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 Projections - January 2019 - December 2019:** It is estimated that 22,017 completions will be performed in this program during the projection period.

**Program Fiscal Costs - January 2019 - December 2019:** Costs for this program are projected to be \$7,388,880.

**Program Progress Summary:** As of year-to-date, June 30, 2018, 13,091 measure installations have taken place in the current year as a result of this program.

## **Program Description and Progress**

**Program Title:** Neighborhood Energy Saver Program

**Program Description:** The 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 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 Projections - January 2019 - December 2019:** It is estimated that energy conservation measures will be installed on 4,500 homes and approximately 15,000 customers will receive a comprehensive home energy report with information that will help them manage their energy usage.

**Program Fiscal Costs for January 2019 - December 2019:** Costs for this program are projected to be \$2,994,366.

**Program Progress Summary:** As of year-to-date, June 30, 2018, there have been 26,250 measures installed on 2446 homes and a monthly average of 16,776 Home Energy Reports have been provided to customers.

## **Program Description and Progress**

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

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

**Program Projections - January 2019 - December 2019:** It is estimated that 1,017 weatherization measures will be installed on 339 residential homes.

**Program Fiscal Costs - January 2019 - December 2019:** Costs for this program are projected to be \$354,813.

**Program Progress Summary:** As of year-to-date, June 30, 2018, there have been 383 measures installed on 133 homes through this program.

## **Program Description and Progress**

**Program Title:** Energy Management Program (Residential & Commercial)

**Program Description:** The Residential Energy Management program is a voluntary program that incorporates direct 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 selected and their monthly kWh usage. The Commercial program was closed to new participants as of July 20, 2000.

This program provides approximately 693 MW's of winter and 384 MW's of summer load reduction. Approximately 433,000 customers currently participate in the program requiring over 559,000 control switches.

**Program Projections - January 2019 - December 2019:** During this period DEF anticipates adding 5,951 new participants to the current portfolio of approximately 433,000 participants.

**Program Fiscal Costs - January 2019 - December 2019:** Program costs during this period are projected to be \$44,104,674.

**Program Progress Summary:** Through year-to-date, June 30, 2018, a total of 3,123 new participant installations have been completed.



## **Program Description and Progress**

**Program Title:** Business Energy Check Program

**Program Description:** The Business Energy Check Program provides no-cost energy audits at non-residential facilities. This program acts as a motivational tool to identify, evaluate and inform consumers about cost effective energy saving measures that can be installed at their facility. The Business Energy Check Program serves as the foundation for the Better Business Program.

**Program Projections - January 2019 - December 2019:** It is estimated that 640 customers will participate in this program during the projection period.

**Program Fiscal Costs - January 2019 - December 2019:** Costs for this program are projected to be \$858,893.

**Program Progress Summary:** As of year-to-date, June 30, 2018, 286 customers have participated in this program..

## **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, roof insulation, duct leakage and repair, demand-control ventilation, cool roof coating, high efficiency energy recovery ventilation, and HVAC optimization qualifying measures.

**Program Projections - January 2019 - December 2019:** It is estimated that 485 measure installations will take place as a result of this program during the projection period.

**Program Fiscal Costs - January 2019 - December 2019:** Costs for this program are projected to be \$3,242,712.

**Program Progress Summary:** As of year-to-date, June 30, 2018, 276 measure installations have taken place as a result of this 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 Projections - January 2019 - December 2019:** It is estimated that 28 customers will participate in the program during the projection period.

**Program Fiscal Costs - January 2019 - December 2019:** Costs for this program are projected to be \$645,319.

**Program Progress Summary:** As of year-to-date June 30, 2018, 6 customers have participated in this program and there are a number of other applications that are currently being evaluated.

## **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 Projections - January 2019 - December 2019:** It is estimated that 12 new installations will be completed during the projection period.

**Program Fiscal Costs - January 2019 - December 2019:** Expenses for this program are projected to be \$4,469,693.

**Program Progress Summary:** There are currently a total of 176 accounts participating in this program.

## **Program Description and Progress**

**Program Title:** Interruptible Service

**Program Description:** Interruptible Service is a direct load control DSM program in which customers contract to allow DEF to interrupt their electrical service during times of capacity shortages during peak or emergency conditions. In return, customers receive a monthly credit on their bill based on their monthly peak demand.

**Program Projections - January 2019 - December 2019:** 3 new accounts are estimated to sign up for this program during the projection period.

**Program Fiscal Costs - January 2019 - December 2019:** Costs for this program are projected to be \$35,299,564.

**Program Progress Summary:** There are a total of 167 accounts participating in this program.

## **Program Description and Progress**

**Program Title:** Curtailable Service

**Program Description:** Curtailable Service is an indirect load control DSM program in which customers contract to curtail or reduce a portion of their electric load during times of capacity shortages. The curtailment is managed by the customer when notified by DEF. In return, customers receive a monthly rebate for the curtailable portion of their load.

**Program Projections - January 2019 - December 2019:** DEF is not projecting to add any new participants during the projection period as DEF expects that customers are more likely to participate in the Interruptible or Stand-by load management programs.

**Program Fiscal Costs - January 2019 - December 2019:** Costs for this program are projected to be \$2,195,256 and 97% of these costs are attributable to incentives paid to customers who currently participate in the program.

**Program Progress Summary:** As of June 30, 2018, there are 4 customers participating in this program.

## Program Description and Progress

**Program Title:** Technology Development

**Program Description:** The Technology Development Program allows DEF to investigate technologies that support the development of cost-effective demand reduction and energy efficiency programs.

**Program Projections - January 2019 - December 2019:** DEF has partnered with various research organizations including, the University of South Florida (USF), and the Electric Power Research Institute (EPRI) to evaluate energy efficiency, energy storage, demand response, and smart-charging technologies. Several research projects associated with these four focus areas will continue and/or launch in 2019:

- Energy Management Circuit Breakers
- Smart Charging for Electric Transportation
- Smart Appliances for Demand Management and Customer EE
- Advanced Variable Capacity HVAC
- USF Renewable Energy Storage
- Persistent Wi-Fi for Demand Side Management
- EPRI programs (energy efficiency, energy storage, integration of renewable resources, electric transportation infrastructure)

**Program Fiscal Costs - January 2019 - December 2019:** Costs for this program are projected to be \$800,000.

**Program Progress Summary:** The following provides a summary of projects that DEF is currently supporting through this program:

- Energy Management Circuit Breaker Project: This project will continue to explore the potential for developing a Florida program for customer circuit breakers that include communication, metering, and remote operation for potential applications including energy efficiency, demand response, and integration of distributed energy resources. A field pilot consisting of 10 customer homes is installed and operational data is being collected from appliances. DEF will continue to test smart breaker applications including smart breakers that have electric vehicle charging capabilities in 2019. DEF will document the operation of these breakers and assess the cost-effectiveness for potential EE and DR programs.
- Smart charging for electric transportation: Testing will include analysis of residential and

## **Program Description and Progress**

public charging, vehicle charging programs and Electric Vehicle Supply Equipment (EVSE) control technology.

- CTA-2045 Testing Project: The CTA-2045 standard provides for a modular communications interface to residential appliances for demand management. CTA-2045 also provides standard signals for DSM to control appliances. DEF, in partnership with EPRI, is testing: CTA-2045 thermostats, heat pump water heaters, electric water heaters, pool pump/timers, and electric vehicle chargers. DEF is also testing retrofit devices that could bring the features of CTA-2045 to existing appliances including water heaters, pool pumps, and electric vehicle chargers. The functionality of these devices is being verified in field demonstrations for program development.
- Advanced Variable Capacity HVAC Pilot: This project will evaluate the demand response capability of internet-connected variable capacity heat pumps. We will verify that variable capacity systems can provide greater peak power reduction while limiting discomfort to the customer (compared to traditional duty cycling strategies for single-speed systems). This pilot will test triggering of DSM using open standards and actuate through manufacturer cloud-based communication. DEF will utilize existing heat pumps resulting in minimal need for retrofit. Currently these heat pumps cannot participate in our Residential Energy Management Program because of the type of thermostatic control employed in these systems.
- USF Renewable Energy Storage System: This project will evaluate the use of a customer-sited energy storage system and a solar PV installation to renewably control customer demand, including high demand spikes from fast electric vehicle charging. DEF will also determine the feasibility of a potential DSM program using the solar and energy storage systems. The renewable energy storage system will also have the capability to supply loads during a prolonged utility outage (due to storms, etc.).
- Persistent Wi-Fi for Demand Side Management Project: This project will design and test hardware and software to enable persistent connection of utility demand response equipment utilizing customer provided internet connection in a secure Wi-Fi configuration.



## Program Description and Progress

**Program Title:** Qualifying Facility

**Program Description:** This program supports the costs to administer and facilitate the interconnection and purchase of as-available energy and firm energy and capacity from qualifying facilities including those that utilize renewable sources and distributed energy resources.

**Program Projections - January 2019 - December 2019:** DEF will continue to engage with interested parties wanting to provide cogeneration or renewable resources to DEF. Discussions around potential projects, grid access and QF avoided cost with renewables, energy storage, and combined heat and power developers continue to increase. These parties are exploring distributed generation options as the technologies advance, the markets and incentives change, and the associated policies are refined. As the number of potential QFs that engage DEF increase, additional planning, forecasting, screening techniques and QF business practices will need to evolve and escalate. In addition, more in depth research and analytics will be required to support interconnections, good faith QF purchased power negotiations, DEF system impacts, and associated contract structures. DEF will monitor the existing QF contracts under development for: construction milestones, financing status, permitting, transmission studies, insurance requirements, and performance security. DEF will continue to prudently administer all executed and in-service QF contracts for compliance.

**Program Fiscal Costs - January 2019 - December 2019:** Costs for this program are projected to be \$1,211,168.

**Program Progress Summary:** DEF has approximately 828 MW under purchase contract from QFs. The total firm capacity from cogeneration facilities is 334 MW and the total firm capacity from renewable facilities is 117 MW. Approximately 67 MW of renewables are delivering energy to the Company under DEF's COG-1, as-available contract and 310 MW of Qualified renewables are under development. Finally, DEF currently has over 5,700 MW of distributed energy resources and renewables in its State Pre-Application, State Application, and FERC jurisdictional generation interconnection queues that represent an intention to interconnect inside DEF's Balancing Authority.