Matthew R. Bernier
SENIOR COUNSEL
Duke Energy Florida, LLC

August 18, 2017

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

RE: Energy Conservation Cost Recovery; Docket No. 20170002-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 2018; and
- 2016 Actual/Estimated True-Up & 2018 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. 20170002-EG Dated: August 18, 2017

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 2018

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 2018 through December 2018. In support thereof, the Company states:

1. DEF projects total conservation program costs of $114,452,432 for the period January 2018 through December 2018.

2. The net true up is an over-recovery of $3,078,883 which includes the final conservation over-recovery of $7,271,001 for the period January 2016 through December 2016 as shown on DEF's schedule CT-1 filed April 27, 2017, and the actual/estimated true-up under-recovery for January 2017 through December 2017 of $4,192,118.

3. The total recoverable conservation costs including prior period over or under recoveries to be recovered during the January 2018 through December 2018 billing period are $111,408,966.

4. Based upon the required true-up and projected expenditures, DEF has calculated the required conservation cost recovery factors for the period January 2018 through December 2018 as follows:

2018 ECCR Billing Factors

Retail Rate Schedule	Secondary Voltage	Primary Voltage	Transmission Voltage
Residential (Cents/kWh)	.328	N/A	N/A
General-Service-Non-Demand (Cents/kWh)	.270	.267	.265
General Service 100% Load Factor (Cents/kWh)	.211	N/A	N/A
General Service Demand ($/kW)	1.01	1.00	.99
Curtailable ($/kW)	.68	.67	.67
Interruptible ($/kW)	.83	.82	.81
Standby Monthly ($/kW)	.099	.098	.097
Standby Daily ($/kW)	.047	.047	.046
Lighting (Cents/kWh)	.108	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 2018 through December 2018 billing period.

RESPECTFULLY SUBMITTED this 18th day of August, 2017.

/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 by electronic mail this 18th day of August, 2017, to all parties of record as indicated below.

/s/ Matthew R. Bernier

Matthew R. Bernier

Kelly Corbari Stephanie Cuello Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 kcorbari@psc.state fl.us scuello@psc.state fl.us James Beasley / J. Jeffry Wahlen Ausley & McMullen P.O. Box 391 Tallahassee, FL 32302 jbeasley@ausley.com jwahlen@ausley.com Russell Badders / Steven Griffin Beggs & Lane P.O. Box 12950 Pensacola, FL 32591 rab@beggslane.com srg@beggslane.com Mike Cassel, Director, Regulatory Affairs Florida Public Utilities Company 1750 S 14th Street, Suite 200 Fernandina Beach, FL 32034 mcassel@fpuc.com Rhonda J. Alexander Regulatory, Forecasting & Pricing Manager Gulf Power Company One Energy Place Pensacola, FL 32520-0780 rjalexad@southernco.com 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 rehwinkel.charles@leg.state.fl.us kelly.jr@leg.state fl.us christensen.patty@leg.state fl.us	Jon C. Moyle, Jr. Moyle Law Firm, P.A. 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com Jeffrey A. Stone, General Counsel Gulf Power Company One Energy Place Pensacola, FL 32520-0780 jastone@southernco.com Beth Keating Gunster, Yoakley & Stewart, P.A. 215 S. Monroe St., Suite 601 Tallahassee, FL 32301 bkeating@gunster.com Paula K. Brown Manager, Regulatory Coordination Tampa Electric Company P.O. Box 111 Tampa, FL 33601 regdept@tecoenergy.com Kenneth Hoffman Vice President, Regulatory Affairs Florida Power & Light Company 215 S. Monroe Street, Suite 810 Tallahassee, FL 32301-1858 Ken.hoffman@fpl.com James W. Brew / Laura A. Wynn Stone Mattheis Xenopoulos & Brew, P.C. 1025 Thomas Jefferson Street, NW Eighth Floor, West Tower Washington, D.C. 20007 jbrew@smxblaw.com law@smxblaw.com Kenneth Rubin / John Butler / Maria Moncada Florida Power & Light Company 700 Universe Blvd. Juno Beach, FL 33408-0420 ken.rubin@fpl.com maria moncada@fpl.com john.butler@fpl.com

DUKE ENERGY FLORIDA

DOCKET NO. 20170002-EG

Energy Conservation Cost Recovery
2017 Actual / Estimated and 2018 Projected Costs

DIRECT TESTIMONY OF
Lori J. Cross

August 18, 2017

Q. State your name and business address.

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

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

A. I am employed by Duke Energy Business Services, LLC ("DEBS"), as Strategy Collaboration Director Regulatory Strategy in the Customer Programs Department. DEBS is a service-company affiliate of Duke Energy Florida, LLC ("Duke Energy Florida", "DEF", or the "Company").

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

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

Q. What is the purpose of your testimony?

A. The purpose of my testimony is to describe the components and costs of the Company's DSM programs. I will detail the projected costs for each program, explain how these costs are presented in my attached exhibit, and show the resulting projected Energy Conservation Cost Recovery ("ECCR") factors for 2018 customer billings.

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

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

- Home Energy Check
- Residential Incentive Program
- Neighborhood Energy Saver
- Low-Income Weatherization Assistance Program
- Energy Management (Residential and Commercial)
- Business Energy Check
- Better Business
- Florida Custom Incentive
- Standby Generation
- Interruptible Service

- Curtailable Service
- Technology Development
- Qualifying Facility

Q. Do you have any exhibits to your testimony?

A. Yes. Exhibit No._(LJC-1P) supports Duke Energy Florida's energy conservation calculations for the 2017 actual/estimated period and the 2018 projection period. There are six (6) schedules included in this exhibit.

Q. Will you please explain your exhibit?

A. Yes. Exhibit No._(LJC-1P) presents Schedules C-1 through C-6. Schedules C-1 to C-4 provide projected program costs for calendar year 2018 along with an updated projection of program costs for 2017. The 2017 updated projection of costs includes the actual costs incurred for the period from January 2017 through June 2017 and forecasted costs for July through December 2017. Schedule C-5 provides a brief summary report for each program that includes a program description, estimated annual program expenditures for 2018, and a summary of program accomplishments through the period ending June 2017. Schedule C-6 is the capital structure and cost rates used to calculate the return for each applicable conservation program.

Q. Would you please discuss Schedule C-1?

A. Schedule C-1 provides the calculation of the cost recovery factors for 2018 by rate class.

Q. What does Schedule C-2 show?

A. Schedule C-2 provides annual and monthly conservation program cost estimates for the 2018 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 2017 (actual) and July through December 2017 (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 2017 actual/estimated period.

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

A. Schedule C-4 provides the projected ECCR revenues for the 2018 projection period.

Q. Would you please discuss Schedule C-5?

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

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

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

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

A. Yes. Schedule C-2, Page 1 of 8, Line 22, shows total 2018 projected program costs of $114,452,432 partially offset by a prior period over-recovery of $3,078,883 resulting in estimated net revenue requirements in 2018 of $111,408,966. The following table includes DEF's proposed ECCR billing factors, by retail rate class and voltage level for calendar year 2018, as contained in Schedule C-1, Page 2 of 2.

2018 ECCR Billing Factors

Retail Rate Schedule	Secondary Voltage	Primary Voltage	Transmission Voltage
Residential (Cents/kWh)	.328	N/A	N/A
General-Service-Non-Demand (Cents/kWh)	.270	.267	.265
General Service 100% Load Factor (Cents/kWh)	.211	N/A	N/A
General Service Demand ($/kW)	1.01	1.00	.99
Curtailable ($/kW)	.68	.67	.67
Interruptible ($/kW)	.83	.82	.81
Standby Monthly ($/kW)	.099	.098	.097
Standby Daily ($/kW)	.047	.047	.046
Lighting (Cents/kWh)	.108	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 2018 - December 2018

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 (%)
Residential										
RS-1, RST-1, RSL-1, RSL-2, RSS-1										
Secondary	0.518	19,998,223	4,407.79	0.9373898	21,333,945	4,702.20	2,435.38	51.864%	61.806%	61.041%
General Service Non-Demand										
GS-1, GST-1										
Secondary	0.682	1,915,364	320.78	0.9373898	2,043,295	342.21	233.25	4.967%	4.498%	4.534%
Primary	0.682	20,645	3.46	0.9737076	21,202	3.55	2.42	0.052%	0.047%	0.047%
Transmission	0.682	2,481	0.42	0.9837076	2,522	0.42	0.29	0.006%	0.006%	0.006%
								5.025%	4.550%	4.587%
General Service										
GS-2 Secondary	1.000	173,218	19.77	0.9373898	184,787	21.09	21.09	0.449%	0.277%	0.290%
General Service Demand										
GSD-1, GSDT-1										
Secondary	0.749	11,851,002	1,806.96	0.9373898	12,642,554	1,927.65	1,443.21	30.735%	25.337%	25.752%
Primary	0.749	2,207,627	336.60	0.9737076	2,267,238	345.69	258.82	5.512%	4.544%	4.618%
Transmission	0.749	0	0.00	0.9837076	0	0.00	0.00	0.000%	0.000%	0.000%
SS-1 Primary	1.166	39,299	3.85	0.9737076	40,360	3.95	4.61	0.098%	0.052%	0.056%
Transm Del/ Transm Mtr	1.166	7,627	0.75	0.9837076	7,753	0.76	0.89	0.019%	0.010%	0.011%
Transm Del/ Primary Mtr	1.166	2,139	0.21	0.9737076	2,197	0.22	0.25	0.005%	0.003%	0.003%
								36.369%	29.946%	30.440%
Curtailable										
CS-1, CST-1, CS-2, CST-2										
Secondary	1.305	0	0.00	0.9373898	0	0.00	0.00	0.000%	0.000%	0.000%
Primary	1.305	71,149	6.22	0.9737076	73,070	6.39	8.34	0.178%	0.084%	0.091%
SS-3 Primary	0.583	55,813	10.93	0.9737076	57,320	11.23	6.54	0.139%	0.148%	0.147%
								0.317%	0.232%	0.238%
Interrupt ble										
IS-1, IST-1, IS-2, IST-2										
Secondary	1.009	88,807	10.04	0.9373898	94,739	10.71	10.81	0.230%	0.141%	0.148%
Sec Del/Primary Mtr	1.009	4,677	0.53	0.9737076	4,803	0.54	0.55	0.012%	0.007%	0.007%
Primary Del / Primary Mtr	1.009	1,263,456	142.88	0.9737076	1,297,572	146.74	148.12	3.154%	1.929%	2.023%
Primary Del / Transm Mtr	1.009	265	0.03	0.9837076	269	0.03	0.03	0.001%	0.000%	0.000%
Transm Del/ Transm Mtr	1.009	313,757	35.48	0.9837076	318,954	36.07	36.41	0.775%	0.474%	0.497%
Transm Del/ Primary Mtr	1.009	222,565	25.17	0.9737076	228,575	25.85	26.09	0.556%	0.340%	0.356%
SS-2 Primary	0.870	8,991	1.18	0.9737076	9,234	1.21	1.05	0.022%	0.016%	0.016%
Transm Del/ Transm Mtr	0.870	6,821	0.90	0.9837076	6,934	0.91	0.79	0.017%	0.012%	0.012%
Transm Del/ Primary Mtr	0.870	90,375	11.86	0.9737076	92,815	12.18	10.60	0.226%	0.160%	0.165%
								4.993%	3.079%	3.226%
Lighting										
LS-1 (Secondary)	5.506	378,883	7.86	0.9373898	404,190	8.38	46.14	0.983%	0.110%	0.177%
		38,723,184	7,153.67		41,134,330	7,607.99	4,695.70	100.000%	100.000%	100.000%

Notes:

(1) Average 12CP load factor based on load research study filed July 31, 2015 (Rule 25-6-0437 (7))
(2) Projected kWh sales for the period January 2018 to December 2018
(3) Calculated: Column 2 / (8,760 hours x Column 1)
(4) Based on system average line loss analysis for 2016
(5) Column 2 / Column 4
(6) Column 3 / Column 4
(7) Column 5 / 8,760 hours
(8) Column 5/ Total Column 5
(9) Column 6/ Total Column 6
(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 2018 - December 2018

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)
Residential										
RS-1, RST-1, RSL-1, RSL-2, RSS-1										
Secondary	51.864%	61.041%	$ 13,597,639	$ 52,001,744	$ 65,599,383	19,998,223				0.328
General Service Non-Demand										
GS-1, GST-1										
Secondary						1,915,364				0.270
Primary						20,439				0.267
Transmission						2,431				0.265
TOTAL GS	5.025%	4.587%	$ 1,317,458	$ 3,907,505	$ 5,224,964	1,938,234				
General Service										
GS-2 Secondary	0.449%	0.290%	$ 117,778	$ 247,476	$ 365,254	173,218				0.211
General Service Demand										
GSD-1, GSDT-1, SS-1*										
Secondary						11,851,002			1.01	
Primary						2,226,574			1.00	
Transmission						7,474			0.99	
TOTAL GSD	36.369%	30.440%	$ 9,535,137	$ 25,932,013	$ 35,467,150	14,085,051	55.00%	35,081,072		
Curtailable										
CS-1, CST-1, CS-2, CST-2, CS-3, CST-3, SS-3*										
Secondary						0			0.68	
Primary						125,692			0.67	
Transmission						-			0.67	
TOTAL CS	0.317%	0.238%	$ 83,107	$ 202,899	$ 286,006	125,692	40.90%	420,981		
Interrupt ble										
IS-1, IST-1, IS-2, IST-2, SS-2*										
Secondary						88,807			0.83	
Primary						1,574,163			0.82	
Transmission						314,426			0.81	
TOTAL IS	4.993%	3.226%	$ 1,309,093	$ 2,748,487	$ 4,057,581	1,977,397	55.40%	4,889,463		
Lighting										
LS-1 Secondary	0.983%	0.177%	$ 257,619	$ 151,010	$ 408,629	378,883				0.108
	100.000%	100.000%	$ 26,217,831	$ 85,191,134	$ 111,408,966	38,676,697				0.288

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	$39,810,737	40,391,517	0.99
SS-1, 2, 3 - $/kW-mo	Secondary	Primary	Transmission
Monthly - $0.99/kW * 10%	0.099	0.098	0.097
Daily - $0.99/kW / 21	0.047	0.047	0.046

Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Estimated Conservation Program Costs
January 2018 - December 2018

Line No.	Program Demand (D) or Energy (E)	12 Month Total
1	Home Energy Check (E)	$5,386,225
2	Residential Incentive Program (E)	6,811,611
3	Business Energy Check (E)	949,909
4	Better Business (E)	3,396,413
5	Technology Development (E)	800,000
6	Florida Custom Incentive (Innovation Incentive) (E)	585,774
7	Interruptible Service (D)	33,139,086
8	Curtailable Service (D)	1,981,688
9	Energy Management (Residential & Commercial) (D)	47,214,745
10	Low Income Weatherization Assistance Program (E)	366,079
11	Standby Generation (D)	4,725,294
12	Qualifying Facility (E)	1,254,868
13	Neighborhood Energy Saver (E)	3,324,211
14	Conservation Program Admin (E)	4,064,877
15	Conservation Program Admin (D)	451,653
16	Total ECCR Program Costs	$114,452,432

17			2017		Revenue	Total
18		12 Months	End of Period Net True-Up		Expansion	Recoverable
19	Demand & Energy Summary	Total	(Over)/Under Recovery	Total Costs	Factor	Costs
20	Energy	$26,939,967	($730,470)	$26,209,497	1.000318	$26,217,831
21	Demand	87,512,465	(2,348,413)	85,164,052	1.000318	85,191,134
22	Total Demand & Energy Costs	$114,452,432	($3,078,883)	$111,373,549		$111,408,966

Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Estimated Conservation Program Costs
January 2018 - December 2018

Line No.	Program Demand (D) or Energy (E)	Est Jan-18	Est Feb-18	Est Mar-18	Est Apr-18	Est May-18	Est Jun-18	Est Jul-18	Est Aug-18	Est Sep-18	Est Oct-18	Est Nov-18	Est Dec-18	Total
1	Home Energy Check (E)	$430,152	$435,232	$485,225	$435,751	$436,547	$437,724	$487,715	$437,707	$436,549	$434,333	$431,060	$498,230	$5,386,225
2	Residential Incentive Program (E)	562,024	560,024	581,330	560,830	560,330	581,330	561,330	566,308	581,330	561,330	560,330	575,115	6,811,611
3	Business Energy Check (E)	69,544	121,050	71,037	70,465	99,864	69,861	69,857	69,853	69,851	69,847	69,842	98,841	949,909
4	Better Business (E)	365,118	390,118	265,118	340,118	265,118	280,118	265,118	315,118	205,118	170,118	290,118	245,118	3,396,413
5	Technology Development (E)	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	800,000
6	Florida Custom Incentive Program (E)	48,815	48,815	48,815	48,815	48,815	48,815	48,815	48,815	48,815	48,815	48,815	48,815	585,774
7	Interruptible Service (D)	2,687,322	2,694,915	2,702,502	2,710,085	2,724,406	2,731,982	2,746,296	2,760,605	2,781,654	2,816,183	2,864,194	2,918,942	33,139,086
8	Curtailable Service (D)	165,141	165,141	165,141	165,141	165,141	165,141	165,141	165,141	165,141	165,141	165,141	165,141	1,981,688
9	Energy Management (Residential & Commercial) (D)	3,874,664	3,889,332	3,904,013	3,918,624	3,933,191	3,947,582	3,961,525	3,975,903	3,989,862	3,957,632	3,924,874	3,937,540	47,214,745
10	Low Income Weatherization Assistance Program (E)	34,798	28,298	34,798	27,798	30,798	32,798	27,798	32,798	31,798	27,798	28,798	27,798	366,079
11	Standby Generation (D)	392,634	392,930	392,860	392,792	393,089	394,584	393,677	393,970	394,259	394,547	394,833	395,119	4,725,294
12	Qualifying Facility (E)	104,572	104,572	104,572	104,572	104,572	104,572	104,572	104,572	104,572	104,572	104,572	104,572	1,254,868
13	Neighborhood Energy Saver (E)	209,125	235,597	299,041	295,541	299,041	295,541	329,012	325,512	295,541	299,041	235,597	205,625	3,324,211
14	Conservation Program Admin (E)	312,490	312,490	391,240	312,490	312,490	391,240	312,490	312,490	391,240	312,490	312,490	391,240	4,064,877
15	Conservation Program Admin (D)	34,721	34,721	43,471	34,721	34,721	43,471	34,721	34,721	43,471	34,721	34,721	43,471	451,653
16	Total ECCR Program Costs	$9,357,786	$9,479,901	$9,555,829	$9,484,409	$9,474,789	$9,591,424	$9,574,733	$9,610,179	$9,605,867	$9,463,233	$9,532,051	$9,722,232	$114,452,432
17	Demand & Energy Summary													
18	Energy	$2,203,304	$2,302,862	$2,347,842	$2,263,046	$2,224,240	$2,308,664	$2,273,373	$2,279,839	$2,231,480	$2,095,009	$2,148,288	$2,262,019	$26,939,967
19	Demand	7,154,482	7,177,039	7,207,987	7,221,363	7,250,548	7,282,760	7,301,360	7,330,340	7,374,387	7,368,224	7,383,763	7,460,213	87,512,465
20	Total Demand & Energy Costs	$9,357,786	$9,479,901	$9,555,829	$9,484,409	$9,474,789	$9,591,424	$9,574,733	$9,610,179	$9,605,867	$9,463,233	$9,532,051	$9,722,232	$114,452,432

Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Estimated Conservation Program Costs
January 2018 - December 2018

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)	$15,574	$2,498,450	$204,098	$616,900	$1,296,976	$574,117	$119,929	$60,181	$0	$5,386,225
2	Residential Incentive Program (E)	0	2,445,860	111,969	165,019	712,636	3,224,331	85,053	66,743	0	6,811,611
3	Business Energy Check (E)	10,829	386,150	10,738	384,264	70,707	60,000	23,125	4,096	0	949,909
4	Better Business (E)	0	1,087,377	13,482	135,370	113,440	1,975,000	25,061	46,683	0	3,396,413
5	Technology Development (E)	0	211,796	200,000	363,204	0	0	5,000	20,000	0	800,000
6	Florida Custom Incentive Program (E)	0	121,233	0	103,072	20,000	325,000	575	15,894	0	585,774
7	Interruptible Service (D)	73,328	207,761	0	0	0	32,838,271	15,284	4,442	0	33,139,086
8	Curtailable Service (D)	0	43,700	0	0	0	1,937,988	0	0	0	1,981,688
9	Energy Management (Residential & Commercial) (D)	16,620,814	1,859,978	10,552	3,044,217	860,846	24,725,044	33,056	60,238	0	47,214,745
10	Low Income Weatherization Assistance Program (E)	0	120,282	0	0	32,500	196,750	1,500	15,047	0	366,079
11	Standby Generation (D)	59,574	319,933	0	1,200	0	4,327,030	8,016	9,541	0	4,725,294
12	Qualifying Facility (E)	0	1,099,669	6,500	102,799	0	0	5,900	40,000	0	1,254,868
13	Neighborhood Energy Saver (E)	0	197,033	0	296,837	77,617	2,735,860	1,500	15,364	0	3,324,211
14	Conservation Program Admin (E)	0	2,588,739	34,705	1,005,239	0	0	9,000	427,194	0	4,064,877
15	Conservation Program Admin (D)	0	287,638	3,856	111,693	0	0	1,000	47,466	0	451,653
16	Total ECCR Program Costs	$16,780,119	$13,475,599	$595,899	$6,329,814	$3,184,721	$72,919,391	$333,999	$832,889	$0	$114,452,432
17	Demand & Energy Summary										
18	Energy	$26,403	$10,756,590	$581,491	$3,172,704	$2,323,875	$9,091,058	$276,643	$711,203	$0	$26,939,967
19	Demand	16,753,716	2,719,010	14,408	3,157,110	860,846	63,828,333	57,356	121,686	0	87,512,465
20	Total Demand & Energy Costs	$16,780,119	$13,475,599	$595,899	$6,329,814	$3,184,721	$72,919,391	$333,999	$832,889	$0	$114,452,432

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

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Est Jan-18	Est Feb-18	Est Mar-18	Est Apr-18	Est May-18	Est Jun-18	Est Jul-18	Est Aug-18	Est Sep-18	Est Oct-18	Est Nov-18	Est Dec-18	Total
1	**Home Energy Check (E)**														
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	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	
12	Return on Average Investment		250	244	239	233	227	223	217	211	206	200	195	189	2,634
13															
14	Return Requirements		360	351	344	335	327	321	312	304	296	288	280	272	3,790
15															
16	Program Total		$1,342	$1,333	$1,326	$1,317	$1,309	$1,303	$1,294	$1,286	$1,278	$1,270	$1,262	$1,254	$15,574
17	**Business Energy Check (E)**														
18	Investments		$25,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$25,000
19	Retirements		0	0	0	0	69,415	0	0	0	0	0	0	0	69,415
20	Depreciation Base		69,415	94,415	94,415	94,415	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	
21															
22	Depreciation Expense		1,157	1,574	1,574	1,013	417	417	417	417	417	417	417	417	8,654
23															
24	Cumulative Investment	69,415	94,415	94,415	94,415	94,415	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
25	Less: Accumulated Depreciation	65,348	66,505	68,079	69,653	70,666	1,668	2,085	2,502	2,919	3,336	3,753	4,170	4,587	4,587
26	Net Investment	4,067	27,910	26,336	24,762	23,749	23,332	22,915	22,498	22,081	21,664	21,247	20,830	20,413	20,413
27	Average Investment		15,988	27,123	25,549	24,255	23,540	23,123	22,706	22,289	21,872	21,455	21,038	20,621	
28	Return on Average Investment		90	152	143	136	132	130	127	124	123	120	117	116	1,510
29															
30	Return Requirements		130	219	206	196	190	187	183	179	177	173	168	167	2,175
31															
32	Program Total		$1,287	$1,793	$1,780	$1,209	$607	$604	$600	$596	$594	$590	$585	$584	$10,829
33	**Interruptible Service (D)**														
34	Investments		$34,833	$34,833	$34,833	$34,833	$34,833	$34,833	$34,833	$34,833	$34,833	$34,833	$34,833	$34,833	$417,996
35	Retirements		0	0	165	0	0	0	0	0	0	0	0	0	165
36	Depreciation Base		63,838	98,671	133,422	168,172	203,005	237,838	272,671	307,504	342,337	377,170	412,003	446,836	
37															
38	Depreciation Expense		1,064	1,645	2,224	2,803	3,383	3,964	4,545	5,125	5,706	6,286	6,867	7,447	51,059
39															
40	Cumulative Investment	63,838	98,671	133,504	168,172	203,005	237,838	272,671	307,504	342,337	377,170	412,003	446,836	481,669	481,669
41	Less: Accumulated Depreciation	23,758	24,822	26,467	28,525	31,328	34,711	38,675	43,220	48,345	54,051	60,337	67,204	74,651	74,651
42	Net Investment	40,080	73,849	107,037	139,646	171,676	203,126	233,995	264,283	293,991	323,118	351,665	379,631	407,017	407,017
43	Average Investment		56,965	90,443	123,342	155,661	187,401	218,561	249,139	279,137	308,555	337,392	365,648	393,324	
44	Return on Average Investment		319	506	690	871	1,048	1,222	1,394	1,562	1,727	1,888	2,046	2,200	15,473
45															
46	Return Requirements		459	728	993	1,253	1,508	1,759	2,006	2,248	2,486	2,718	2,945	3,166	22,269
47															
48	Program Total		$1,523	$2,373	$3,217	$4,056	$4,891	$5,723	$6,551	$7,373	$8,192	$9,004	$9,812	$10,613	$73,328

Notes:
- 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 20120007-EI.
- Return Requirements are calculated using a combined statutory tax rate of 38.575%.

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

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Est Jan-18	Est Feb-18	Est Mar-18	Est Apr-18	Est May-18	Est Jun-18	Est Jul-18	Est Aug-18	Est Sep-18	Est Oct-18	Est Nov-18	Est Dec-18	Total
1	**Standby Generation (D)**														
2	Investments		$13,000	$13,000	$13,000	$13,000	$13,000	$13,000	$13,000	$13,000	$13,000	$13,000	$13,000	$13,000	$156,000
3	Retirements		0	0	43,836	0	0	0	0	0	0	0	0	0	43,836
4	Depreciation Base		181,375	194,375	185,456	176,538	189,538	202,538	215,538	228,538	241,538	254,538	267,538	280,538	
5															
6	Depreciation Expense		3,023	3,240	3,091	2,942	3,159	3,376	3,592	3,809	4,026	4,242	4,459	4,676	43,635
7															
8	Cumulative Investment	181,375	194,375	207,375	176,538	189,538	202,538	215,538	228,538	241,538	254,538	267,538	280,538	293,538	293,538
9	Less: Accumulated Depreciation	74,512	77,535	80,775	40,030	42,972	46,131	49,507	53,099	56,908	60,934	65,176	69,635	74,311	74,311
10	Net Investment	106,862	116,839	126,599	136,508	146,566	156,407	166,031	175,439	184,630	193,604	202,362	210,903	219,227	219,227
11	Average Investment		111,851	121,719	131,554	141,537	151,487	161,219	170,735	180,035	189,117	197,983	206,633	215,065	
12	Return on Average Investment		626	681	736	792	848	902	955	1,008	1,058	1,108	1,156	1,204	11,074
13															
14	Return Requirements		901	980	1,059	1,140	1,220	1,298	1,375	1,451	1,523	1,595	1,664	1,733	15,939
15															
16	Program Total		$3,924	$4,220	$4,150	$4,082	$4,379	$4,674	$4,967	$5,260	$5,549	$5,837	$6,123	$6,409	$59,574
17	**Residential Energy Management - Summary (Itemized Below)**														
18	Expenditures Booked Directly to Plant		$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$10,994,100
19	Retirements		45,307	27,438	28,990	22,550	28,922	23,246	45,709	17,719	39,975	5,568,624	134,153	126,483	6,109,117
20	Investments Booked to CWIP		41,666	41,666	41,666	41,666	61,666	41,666	57,666	41,666	41,666	41,666	41,666	41,666	535,992
21	Closings to Plant		0	0	0	0	0	0	0	0	0	0	0	535,992	535,992
22	Depreciation Base		75,848,037	76,727,839	77,615,800	78,506,205	79,396,643	80,286,734	81,151,669	82,052,893	82,940,221	81,052,096	79,116,881	80,438,730	
23															
24	Depreciation Expense		949,910	964,574	979,373	994,214	1,009,055	1,023,836	1,038,305	1,053,326	1,068,115	1,036,646	1,004,392	1,017,489	12,139,235
25															
26	Cumulative Plant Investment	75,870,690	76,741,558	77,630,295	78,517,479	79,411,104	80,298,357	81,191,286	82,061,752	82,960,208	83,836,408	79,183,958	79,965,980	81,291,664	81,291,664
27	Less: Accumulated Depreciation	29,277,868	30,182,471	31,119,607	32,069,989	33,041,653	34,021,786	35,022,376	36,014,972	37,050,579	38,078,719	33,546,740	34,416,979	35,307,986	35,307,986
28	Cumulative CWIP Investment	0	41,666	83,332	124,998	166,664	228,330	269,996	327,662	369,328	410,994	452,660	494,326	0	0
29	Net Plant Investment	46,592,822	46,600,753	46,594,020	46,572,488	46,536,115	46,504,901	46,438,906	46,374,442	46,278,957	46,168,683	46,089,878	46,043,327	45,983,679	45,447,687
30	Average Investment		46,596,788	46,597,387	46,583,254	46,554,302	46,520,508	46,471,903	46,406,674	46,326,699	46,223,820	46,129,280	46,066,602	46,013,503	
31	Return on Average Investment		260,725	260,727	260,645	260,486	260,295	260,024	259,659	259,212	258,635	258,107	257,756	257,457	3,113,728
32			0	0	0	0	0	0	0	0	0	0	0	0	
33	Return Requirements		375,260	375,264	375,146	374,916	374,642	374,252	373,726	373,083	372,253	371,492	370,988	370,557	4,481,579
34															
35	Program Total		$1,325,170	$1,339,838	$1,354,519	$1,369,130	$1,383,697	$1,398,088	$1,412,031	$1,426,409	$1,440,368	$1,408,138	$1,375,380	$1,388,046	$16,620,814
36	**Residential Energy Management - NGDR Hardware for ODS, LMS, APPDEV. Also includes NGDR TELECOM. (D)**														
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	21,562	20,875	20,188	19,502	18,816	18,128	262,856
51															
52	Return Requirements		36,962	35,974	34,985	33,997	33,009	32,022	31,034	30,045	29,057	28,069	27,082	26,092	378,328
53															
54	Program Total		$159,651	$158,663	$157,674	$156,686	$155,698	$154,711	$153,723	$152,734	$151,746	$150,758	$149,771	$148,781	$1,850,596

Notes:
- 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 20120007-EI.
- Return Requirements are calculated using a combined statutory tax rate of 38.575%.

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

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Est Jan-18	Est Feb-18	Est Mar-18	Est Apr-18	Est May-18	Est Jun-18	Est Jul-18	Est Aug-18	Est Sep-18	Est Oct-18	Est Nov-18	Est Dec-18	Total
1	**Residential Energy Management - NGDR Software for ODS, LMS, APPDEV (D)**														
2	Expenditures Booked Directly to Plant		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3	Retirements		0	0	0	0	0	0	0	0	0	5,536,646	114,113	111,789	5,762,548
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	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	15,130,713	12,305,333	12,192,382	
7															
8	Depreciation Expense		298,323	298,323	298,323	298,323	298,323	298,323	298,323	298,323	298,323	252,184	205,093	203,210	3,345,394
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	12,362,390	12,248,277	12,136,488	12,136,488
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	7,138,900	7,229,880	7,321,301	7,321,301
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	5,223,490	5,018,397	4,815,187	4,815,187
14	Average Investment		8,011,419	7,713,096	7,414,773	7,116,450	6,818,127	6,519,804	6,221,481	5,923,158	5,624,835	5,349,582	5,120,943	4,916,792	
15	Return on Average Investment		44,827	43,157	41,487	39,819	38,149	36,481	34,811	33,142	31,473	29,932	28,653	27,511	429,442
16															
17	Return Requirements		64,519	62,116	59,712	57,311	54,908	52,507	50,103	47,701	45,299	43,081	41,240	39,596	618,093
18															
19	Program Total		$362,842	$360,439	$358,035	$355,634	$353,231	$350,830	$348,426	$346,024	$343,622	$295,265	$246,333	$242,806	$3,963,487
20	**Residential Energy Management - SmartGrid AMI Meters (D)**														
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		22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	
26															
27	Depreciation Expense		110,834	110,834	110,834	110,834	110,834	110,834	110,834	110,834	110,834	110,834	110,834	110,834	1,330,008
28															
29	Cumulative Plant Investment	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287
30	Less: Accumulated Depreciation	6,274,404	6,385,238	6,496,072	6,606,906	6,717,740	6,828,574	6,939,408	7,050,242	7,161,076	7,271,910	7,382,744	7,493,578	7,604,412	7,604,412
31	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Net Plant Investment	16,003,883	15,893,049	15,782,215	15,671,381	15,560,547	15,449,713	15,338,879	15,228,045	15,117,211	15,006,377	14,895,543	14,784,709	14,673,875	14,673,875
33	Average Investment		15,948,466	15,837,632	15,726,798	15,615,964	15,505,130	15,394,296	15,283,462	15,172,628	15,061,794	14,950,960	14,840,126	14,729,292	
34	Return on Average Investment		89,236	88,616	87,996	87,376	86,756	86,135	85,515	84,896	84,275	83,655	83,035	82,414	1,029,905
35															
36	Return Requirements		128,437	127,545	126,653	125,760	124,868	123,974	123,081	122,191	121,297	120,404	119,512	118,618	1,482,340
37															
38	Program Total		$239,271	$238,379	$237,487	$236,594	$235,702	$234,808	$233,915	$233,025	$232,131	$231,238	$230,346	$229,452	$2,812,348
39	**Residential Energy Management - Non-NGDR Residential Projects (D)**														
40	Expenditures Booked Directly to Plant		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
41	Retirements		0	0	0	0	0	0	33,526	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
43	Closings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
44	Depreciation Base		33,526	33,526	33,526	33,526	33,526	33,526	0	0	0	0	0	0	
45															
46	Depreciation Expense		559	559	559	559	559	505	0	0	0	0	0	0	3,300
47															
48	Cumulative Plant Investment	33,526	33,526	33,526	33,526	33,526	33,526	33,526	0	0	0	0	0	0	0
49	Less: Accumulated Depreciation	30,225	30,784	31,343	31,902	32,461	33,020	33,526	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	3,300	2,741	2,182	1,623	1,064	505	0	0	0	0	0	0	0	0
52	Average Investment		3,021	2,462	1,903	1,344	785	253	0	0	0	0	0	0	
53	Return on Average Investment		17	14	10	7	4	1	0	0	0	0	0	0	53
54															
55	Return Requirements		25	20	14	10	6	2	0	0	0	0	0	0	77
56															
57	Program Total		$584	$579	$573	$569	$565	$507	$0	$0	$0	$0	$0	$0	$3,377

Notes:
- 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 20120007-EI.
- Return Requirements are calculated using a combined statutory tax rate of 38.575%.

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

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Est Jan-18	Est Feb-18	Est Mar-18	Est Apr-18	Est May-18	Est Jun-18	Est Jul-18	Est Aug-18	Est Sep-18	Est Oct-18	Est Nov-18	Est Dec-18	Total
58	**Residential Energy Management - Load Management Switches (9080120) (D)**														
59	Expenditures Booked Directly to Plant		$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$916,175	$10,994,100
60	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	313,044
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		25,049,797	25,929,599	26,817,560	27,707,965	28,598,403	29,488,494	30,386,955	31,288,179	32,175,507	33,055,705	33,945,870	34,844,678	
64															
65	Amortization Expense		417,505	432,169	446,968	461,809	476,650	491,485	506,459	521,480	536,269	550,939	565,776	580,756	5,988,265
66															
67	Cumulative Plant Investment	25,072,450	25,943,319	26,832,055	27,719,240	28,612,865	29,500,117	30,393,046	31,297,038	32,195,494	33,071,694	33,955,890	34,852,025	35,753,507	35,753,507
68	Less: Accumulated Depreciation	7,298,349	7,670,548	8,075,278	8,493,256	8,932,514	9,380,242	9,848,481	10,342,757	10,846,518	11,342,812	11,861,772	12,407,508	12,973,570	12,973,570
69	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Net Plant Investment	17,774,101	18,272,771	18,756,777	19,225,984	19,680,350	20,119,875	20,544,565	20,954,281	21,348,976	21,728,882	22,094,118	22,444,517	22,779,936	22,779,936
71	Average Investment		18,023,436	18,514,774	18,991,381	19,453,167	19,900,113	20,332,220	20,749,423	21,151,629	21,538,929	21,911,500	22,269,318	22,612,227	
72	Return on Average Investment		100,847	103,596	106,262	108,847	111,347	113,765	116,099	118,349	120,516	122,602	124,603	126,522	1,373,355
73															
74	Return Requirements		145,149	149,105	152,943	156,663	160,261	163,741	167,101	170,339	173,458	176,461	179,341	182,103	1,976,665
75															
76	Program Total		$562,654	$581,274	$599,911	$618,472	$636,911	$655,226	$673,560	$691,819	$709,727	$727,400	$745,117	$762,859	$7,964,930
77	**Residential Energy Management - Load Management Security Enhancement (9080120) (D)**														
78	Expenditures Booked Directly to Plant		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
79	Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
80	Investments Booked to CWIP		41,666	41,666	41,666	41,666	61,666	41,666	57,666	41,666	41,666	41,666	41,666	41,666	535,992
81	Closings to Plant		0	0	0	0	0	0	0	0	0	0	0	535,992	535,992
82	Amortization Base		0	0	0	0	0	0	0	0	0	0	0	535,992	
83															
84	Amortization Expense		0	0	0	0	0	0	0	0	0	0	0	0	0
85															
86	Cumulative Plant Investment	0	0	0	0	0	0	0	0	0	0	0	0	535,992	535,992
87	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Cumulative CWIP Investment	0	41,666	83,332	124,998	166,664	228,330	269,996	327,662	369,328	410,994	452,660	494,326	0	0
89	Net Plant Investment	0	41,666	83,332	124,998	166,664	228,330	269,996	327,662	369,328	410,994	452,660	494,326	535,992	535,992
90	Average Investment		20,833	62,499	104,165	145,831	197,497	249,163	298,829	348,495	390,161	431,827	473,493	515,159	
91	Return on Average Investment		117	350	583	816	1,105	1,394	1,672	1,950	2,183	2,416	2,649	2,882	18,117
92															
93	Return Requirements		168	504	839	1,175	1,590	2,006	2,407	2,807	3,142	3,477	3,813	4,148	26,076
94															
95	Program Total		$168	$504	$839	$1,175	$1,590	$2,006	$2,407	$2,807	$3,142	$3,477	$3,813	$4,148	$26,076
96	**Demand & Energy Summary**														
97	Energy		$2,629	$3,126	$3,106	$2,526	$1,916	$1,907	$1,894	$1,882	$1,872	$1,860	$1,847	$1,838	$26,403
98	Demand		1,330,617	1,346,431	1,361,886	1,377,268	1,392,967	1,408,485	1,423,549	1,439,042	1,454,109	1,422,979	1,391,315	1,405,068	$16,753,716
99	Total Depreciation & Return		$1,333,246	$1,349,557	$1,364,992	$1,379,794	$1,394,883	$1,410,392	$1,425,443	$1,440,924	$1,455,981	$1,424,839	$1,393,162	$1,406,906	$16,780,119

Notes:
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- Return Requirements are calculated using a combined statutory tax rate of 38.575%.

Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Program Costs
January - June 2017 Actuals
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Line No.	Program Demand (D) or Energy (E)	Depreciation Amortization & Return	Operating & Maintenance Costs: Payroll & Benefits	Vehicles	Outside Services	Materials & Supplies	Advertising	Incentives	Other	Program Revenues (Credits)	Total
1	Home Energy Check (E)										
2	A. Actual	$8,535	$1,238,497	$57,328	$172,342	$126,978	$565,038	$307,990	$31,020	$0	$2,507,728
3	B. Estimated	8,214	1,314,000	57,000	186,000	101,000	613,450	330,021	30,534	0	2,640,220
4											
5	C. Total	$16,749	$2,552,497	$114,328	$358,342	$227,978	$1,178,488	$638,012	$61,554	$0	$5,147,947
6											
7	Residential Incentive Program (E)										
8	A. Actual	$0	$1,047,155	$30,568	$59,353	$21,619	$339,836	$2,837,015	$12,348	$0	$4,347,893
9	B. Estimated	0	1,005,570	23,266	73,542	14,000	372,935	2,784,575	36,000	0	4,309,888
10											
11	C. Total	$0	$2,052,725	$53,834	$132,895	$35,619	$712,771	$5,621,590	$48,348	$0	$8,657,781
12											
13	Business Energy Check (E)										
14	A. Actual	$7,650	$211,606	$5,604	$13,850	$296	($6,684)	$15,209	$8,058	$0	$255,589
15	B. Estimated	7,308	192,000	6,000	13,200	330	41,000	15,500	9,000	0	284,338
16											
17	C. Total	$14,958	$403,606	$11,604	$27,050	$626	$34,316	$30,709	$17,058	$0	$539,927
18											
19	Better Business (E)										
20	A. Actual	$0	$570,240	$5,019	$55,580	$1,934	$29,987	$1,297,274	$11,961	$0	$1,971,995
21	B. Estimated	0	528,000	6,000	30,000	1,350	20,000	1,355,000	12,000	0	1,952,350
22											
23	C. Total	$0	$1,098,240	$11,019	$85,580	$3,284	$49,987	$2,652,274	$23,961	$0	$3,924,345
24											
25	Technology Development (E)										
26	A. Actual	$0	$110,996	$1,504	$10,393	$4,944	$0	$0	$9,271	$0	$137,107
27	B. Estimated	0	150,000	2,500	90,000	12,000	0	0	12,000	0	266,500
28											
29	C. Total	$0	$260,996	$4,004	$100,393	$16,944	$0	$0	$21,271	$0	$403,607
30											
31	Florida Custom Incentive Program (E)										
32	A. Actual	$0	$44,285	$563	$83,313	$861	$17,869	$66,672	($1,396)	$0	$212,168
33	B. Estimated	0	78,000	300	66,000	0	9,000	125,000	0	0	278,300
34											
35	C. Total	$0	$122,285	$863	$149,313	$861	$26,869	$191,672	($1,396)	$0	$490,468
36											
37	Interruptible Service (D)										
38	A. Actual	$7,666	$94,699	$5,968	$127	$3,182	$0	$15,389,978	$6,089	$0	$15,507,708
39	B. Estimated	8,474	96,000	3,852	30,000	120,000	0	15,852,780	1,200	0	16,112,306
40											
41	C. Total	$16,140	$190,699	$9,820	$30,127	$123,182	$0	$31,242,758	$7,289	$0	$31,620,014

Duke Energy Florida, LLC
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Line No.	Program Demand (D) or Energy (E)	Depreciation Amortization & Return	Operating & Maintenance Costs: Payroll & Benefits	Vehicles	Outside Services	Materials & Supplies	Advertising	Incentives	Other	Program Revenues (Credits)	Total
1	Curtailable Service (D)										
2	A. Actual	$0	$38,820	$0	$0	$0	$0	$907,103	$0	$0	$945,923
3	B. Estimated	0	36,000	0	0	0	0	968,994	0	0	1,004,994
4											
5	C. Total	$0	$74,820	$0	$0	$0	$0	$1,876,097	$0	$0	$1,950,917
6											
7	Neighborhood Energy Saver (E)										
8	A. Actual	$0	$94,165	$207	$152,001	$6,628	$107,774	$1,133,470	$12,081	$0	$1,506,326
9	B. Estimated	0	100,438	0	117,900	0	71,000	1,260,000	0	0	1,549,338
10											
11	C. Total	$0	$194,603	$207	$269,901	$6,628	$178,774	$2,393,470	$12,081	$0	$3,055,664
12											
13	Energy Management (Residential & Commercial) (D)										
14	A. Actual	$7,610,330	$929,678	$20,146	$1,171,331	$112,896	$476,629	$10,760,673	$33,055	$0	$21,114,738
15	B. Estimated	7,767,836	1,041,066	19,776	1,456,155	30,000	338,620	13,138,433	34,106	0	23,825,992
16											
17	C. Total	$15,378,166	$1,970,744	$39,922	$2,627,485	$142,896	$815,249	$23,899,106	$67,161	$0	$44,940,730
18											
19	Low Income Weatherization Assistance Program (E)										
20	A. Actual	$0	$57,442	$135	$214	$0	$22,000	$59,230	$4,096	$0	$143,117
21	B. Estimated	0	59,458	298	0	2,000	8,500	116,000	7,000	0	193,256
22											
23	C. Total	$0	$116,900	$433	$214	$2,000	$30,500	$175,230	$11,096	$0	$336,373
24											
25	Standby Generation (D)										
26	A. Actual	$11,479	$146,922	$3,412	$4,110	$2,481	$0	$1,981,145	$2,588	$0	$2,152,137
27	B. Estimated	15,090	144,000	3,816	65,600	12,800	0	2,102,382	4,024	0	2,347,712
28											
29	C. Total	$26,569	$290,922	$7,228	$69,710	$15,281	$0	$4,083,527	$6,612	$0	$4,499,849
30											
31	Qualifying Facility (E)										
32	A. Actual	$0	$511,817	$2,052	$6,183	$17	$0	$0	$13,215	$0	$533,285
33	B. Estimated	0	528,000	2,600	13,700	810	0	0	20,600	0	565,710
34											
35	C. Total	$0	$1,039,817	$4,652	$19,883	$827	$0	$0	$33,815	$0	$1,098,995
36											
37	Conservation Program Admin (E)										
38	A. Actual	$0	$1,248,995	$5,179	$561,912	$32,341	$0	$0	$231,746	$0	$2,080,173
39	B. Estimated	0	1,505,123	6,000	348,000	75,000	0	0	240,000	0	2,174,123
40											
41	C. Total	$0	$2,754,118	$11,179	$909,912	$107,341	$0	$0	$471,746	$0	$4,254,296
42	**ECCR Program Costs**	**$15,452,582**	**$13,122,971**	**$269,092**	**$4,780,802**	**$683,467**	**$3,026,955**	**$72,804,446**	**$780,597**	**$0**	**$110,920,912**

Duke Energy Florida, LLC
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Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Act Jan-17	Act Feb-17	Act Mar-17	Act Apr-17	Act May-17	Act Jun-17	Est Jul-17	Est Aug-17	Est Sep-17	Est Oct-17	Est Nov-17	Est Dec-17	Total
1	**Home Energy Check (E)**														
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	82,462
9	Less: Accumulated Depreciation	25,546	26,528	27,510	28,492	29,474	30,456	31,438	32,420	33,402	34,384	35,366	36,348	37,330	37,330
10	Net Investment	56,916	55,934	54,952	53,970	52,988	52,006	51,024	50,042	49,060	48,078	47,096	46,114	45,132	45,132
11	Average Investment		56,425	55,443	54,461	53,479	52,497	51,515	50,533	49,551	48,569	47,587	46,605	45,623	
12	Return on Average Investment		317	311	306	300	295	289	283	277	272	266	260	256	3,432
13															
14	Return Requirements		461	452	445	436	429	420	407	399	391	383	374	368	4,965
15															
16	Program Total		$1,443	$1,434	$1,427	$1,418	$1,411	$1,402	$1,389	$1,381	$1,373	$1,365	$1,356	$1,350	$16,749
17	**Business Energy Check (E)**														
18	Investments		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
19	Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
20	Depreciation Base		69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415	
21															
22	Depreciation Expense		1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	13,884
23															
24	Cumulative Investment	69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415	69,415
25	Less: Accumulated Depreciation	51,464	52,621	53,778	54,935	56,092	57,249	58,406	59,563	60,720	61,877	63,034	64,191	65,348	65,348
26	Net Investment	17,951	16,794	15,637	14,480	13,323	12,166	11,009	9,852	8,695	7,538	6,381	5,224	4,067	4,067
27	Average Investment		17,372	16,215	15,058	13,901	12,744	11,587	10,430	9,273	8,116	6,959	5,802	4,645	
28	Return on Average Investment		97	91	84	78	72	65	59	52	46	39	33	26	742
29															
30	Return Requirements		141	132	122	113	105	95	85	75	66	56	47	37	1,074
31															
32	Program Total		$1,298	$1,289	$1,279	$1,270	$1,262	$1,252	$1,242	$1,232	$1,223	$1,213	$1,204	$1,194	$14,958
33	**Standby Generation (D)**														
34	Investments		$0	$0	$0	$0	$0	$0	$0	$30,000	$0	$30,000	$0	$30,000	$90,000
35	Retirements		83,251	0	0	0	0	0	0	0	0	0	0	0	83,251
36	Depreciation Base		133,000	91,375	91,375	91,375	91,375	91,375	91,375	91,375	121,375	121,375	151,375	151,375	
37															
38	Depreciation Expense		2,217	1,523	1,523	1,523	1,523	1,523	1,523	1,523	2,023	2,023	2,523	2,523	21,970
39															
40	Cumulative Investment	174,625	91,375	91,375	91,375	91,375	91,375	91,375	91,375	121,375	121,375	151,375	151,375	181,375	181,375
41	Less: Accumulated Depreciation	135,793	54,759	56,282	57,805	59,328	60,851	62,374	63,897	65,420	67,443	69,466	71,989	74,512	74,512
42	Net Investment	38,832	36,615	35,092	33,569	32,046	30,523	29,000	27,477	55,954	53,931	81,908	79,385	106,862	106,862
43	Average Investment		37,724	35,854	34,331	32,808	31,285	29,762	28,239	41,716	54,943	67,920	80,647	93,124	
44	Return on Average Investment		212	201	193	184	176	167	158	233	307	380	452	521	3,184
45															
46	Return Requirements		308	292	280	268	256	243	228	335	442	547	650	750	4,599
47															
48	Program Total		$2,525	$1,815	$1,803	$1,791	$1,779	$1,766	$1,751	$1,858	$2,465	$2,570	$3,173	$3,273	$26,569

Notes:
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Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Schedule of Capital Investment, Depreciation & Return
January - June 2017 Actuals
July - December 2017 Estimates

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Act Jan-17	Act Feb-17	Act Mar-17	Act Apr-17	Act May-17	Act Jun-17	Est Jul-17	Est Aug-17	Est Sep-17	Est Oct-17	Est Nov-17	Est Dec-17	Total
1	**Interruptible Service (D)**														
2	Investments		$0	$0	$0	$11,969	$0	$0	$0	$0	$0	$0	$0	$0	$11,969
3	Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
4	Depreciation Base		51,869	51,869	51,869	51,869	63,838	63,838	63,838	63,838	63,838	63,838	63,838	63,838	
5															
6	Depreciation Expense		865	865	865	865	1,064	1,064	1,064	1,064	1,064	1,064	1,064	1,064	11,972
7															
8	Cumulative Investment	51,869	51,869	51,869	51,869	63,838	63,838	63,838	63,838	63,838	63,838	63,838	63,838	63,838	63,838
9	Less: Accumulated Depreciation	11,786	12,651	13,516	14,381	15,246	16,310	17,374	18,438	19,502	20,566	21,630	22,694	23,758	23,758
10	Net Investment	40,083	39,218	38,353	37,488	48,592	47,528	46,464	45,400	44,336	43,272	42,208	41,144	40,080	40,080
11	Average Investment		39,651	38,786	37,921	43,040	48,060	46,996	45,932	44,868	43,804	42,740	41,676	40,612	
12	Return on Average Investment		223	217	213	242	270	264	257	251	245	239	233	227	2,881
13															
14	Return Requirements		324	316	310	352	392	384	370	362	352	344	335	327	4,168
15															
16	Program Total		$1,189	$1,181	$1,175	$1,217	$1,456	$1,448	$1,434	$1,426	$1,416	$1,408	$1,399	$1,391	$16,140
17	**Residential Energy Management - Summary (Itemized below) (D)**														
18	Expenditures Booked Directly to Plant		$582,155	$364,586	$531,287	$870,347	$298,506	$634,481	$694,917	$692,517	$692,517	$694,917	$692,517	$692,517	$7,441,264
19	Retirements		251,886	297,779	111,439	103,002	459,915	99,829	142,432	184,852	158,559	54,647	60,926	41,343	1,966,607
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		70,270,091	70,577,413	70,737,390	71,161,457	71,750,346	71,768,980	72,282,331	72,813,606	73,334,418	73,920,332	74,557,462	75,198,845	
23															
24	Depreciation Expense		856,004	861,406	864,350	871,649	881,614	881,924	890,480	899,335	908,015	917,781	928,400	939,090	10,700,048
25															
26	Cumulative Plant Investment	70,396,033	70,726,302	70,793,109	71,212,957	71,980,303	71,818,894	72,353,546	72,906,031	73,413,696	73,947,654	74,587,924	75,219,516	75,870,690	75,870,690
27	Less: Accumulated Depreciation	20,544,427	21,148,545	21,712,172	22,465,084	23,233,731	23,655,430	24,437,525	25,185,573	25,900,056	26,649,512	27,512,646	28,380,121	29,277,868	29,277,868
28	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Net Plant Investment	49,851,606	49,577,757	49,080,937	48,747,874	48,746,572	48,163,464	47,916,021	47,720,458	47,513,640	47,298,142	47,075,278	46,839,395	46,592,822	46,592,822
30	Average Investment		49,714,682	49,329,347	48,914,405	48,747,223	48,455,018	48,039,742	47,818,240	47,617,049	47,405,891	47,186,710	46,957,337	46,716,109	
31	Return on Average Investment		279,187	277,024	274,693	273,755	272,112	269,781	267,558	266,432	265,253	264,023	262,741	261,390	3,233,949
32															
33	Return Requirements		405,819	402,675	399,287	397,922	395,534	392,146	385,096	383,474	381,777	380,008	378,162	376,218	4,678,118
34															
35	Program Total		$1,261,823	$1,264,081	$1,263,637	$1,269,571	$1,277,148	$1,274,070	$1,275,576	$1,282,809	$1,289,792	$1,297,789	$1,306,562	$1,315,308	$15,378,166
36	**Residential Energy Management - SmartGrid Hardware for ODS, LMS, APPDEV & TELECOM (D)**														
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	4,464,166	4,586,855	4,709,544	4,832,233	4,954,922	5,077,611	5,200,300	5,322,989	5,445,678	5,568,367	5,691,056	5,813,745	5,936,434	5,936,434
47	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Net Plant Investment	6,123,225	6,000,536	5,877,847	5,755,158	5,632,469	5,509,780	5,387,091	5,264,402	5,141,713	5,019,024	4,896,335	4,773,646	4,650,957	4,650,957
49	Average Investment		6,061,881	5,939,192	5,816,503	5,693,814	5,571,125	5,448,436	5,325,747	5,203,058	5,080,369	4,957,680	4,834,991	4,712,302	
50	Return on Average Investment		34,042	33,353	32,665	31,975	31,286	30,597	29,799	29,113	28,427	27,739	27,053	26,367	362,416
51															
52	Return Requirements		49,483	48,481	47,481	46,478	45,476	44,475	42,890	41,902	40,915	39,925	38,937	37,950	524,393
53															
54	Program Total		$172,172	$171,170	$170,170	$169,167	$168,165	$167,164	$165,579	$164,591	$163,604	$162,614	$161,626	$160,639	$1,996,661

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Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Schedule of Capital Investment, Depreciation & Return
January - June 2017 Actuals
July - December 2017 Estimates

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Act Jan-17	Act Feb-17	Act Mar-17	Act Apr-17	Act May-17	Act Jun-17	Est Jul-17	Est Aug-17	Est Sep-17	Est Oct-17	Est Nov-17	Est Dec-17	Total
1	**Residential Energy Management - SmartGrid Software for ODS, LMS, APPDEV (D)**														
2	Expenditures Booked Directly to Plant		$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	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	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	
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	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	6,158,579	6,456,902	6,755,225	7,053,548	7,351,871	7,650,194	7,948,517	8,246,840	8,545,163	8,843,486	9,141,809	9,440,132	9,738,455	9,738,455
12	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Net Plant Investment	11,740,457	11,442,134	11,143,811	10,845,488	10,547,165	10,248,842	9,950,519	9,652,196	9,353,873	9,055,550	8,757,227	8,458,904	8,160,581	8,160,581
14	Average Investment		11,591,295	11,292,972	10,994,649	10,696,326	10,398,003	10,099,680	9,801,357	9,503,034	9,204,711	8,906,388	8,608,065	8,309,742	
15	Return on Average Investment		65,094	63,419	61,743	60,068	58,393	56,717	54,842	53,172	51,503	49,834	48,165	46,495	669,445
16															
17	Return Requirements		94,619	92,184	89,748	87,313	84,878	82,442	78,934	76,531	74,128	71,726	69,324	66,920	968,747
18															
19	Program Total		$392,942	$390,507	$388,071	$385,636	$383,201	$380,765	$377,257	$374,854	$372,451	$370,049	$367,647	$365,243	$4,548,623
20	**Residential Energy Management - SmartGrid AMI Meters (D)**														
21	Expenditures Booked Directly to Plant		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
22	Retirements		14,747	33,389	13,925	25,640	0	0	0	0	0	0	0	0	87,700
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		22,358,614	22,334,546	22,310,889	22,291,107	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	
26															
27	Depreciation Expense		111,234	111,114	110,997	110,898	110,834	110,834	110,834	110,834	110,834	110,834	110,834	110,834	1,330,915
28															
29	Cumulative Plant Investment	22,365,988	22,351,241	22,317,852	22,303,927	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287	22,278,287
30	Less: Accumulated Depreciation	5,031,190	5,127,677	5,205,402	5,302,474	5,387,732	5,498,566	5,609,400	5,720,234	5,831,068	5,941,902	6,052,736	6,163,570	6,274,404	6,274,404
31	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Net Plant Investment	17,334,798	17,223,564	17,112,450	17,001,453	16,890,555	16,779,721	16,668,887	16,558,053	16,447,219	16,336,385	16,225,551	16,114,717	16,003,883	16,003,883
33	Average Investment		17,279,181	17,168,007	17,056,951	16,946,004	16,835,138	16,724,304	16,613,470	16,502,636	16,391,802	16,280,968	16,170,134	16,059,300	
34	Return on Average Investment		97,036	96,412	95,788	95,165	94,542	93,921	92,957	92,337	91,718	91,097	90,477	89,857	1,121,307
35															
36	Return Requirements		141,049	140,142	139,235	138,329	137,424	136,521	133,793	132,900	132,009	131,116	130,223	129,331	1,622,072
37															
38	Program Total		$252,283	$251,256	$250,232	$249,227	$248,258	$247,355	$244,627	$243,734	$242,843	$241,950	$241,057	$240,165	$2,952,987
39	**Residential Energy Management - Non-SmartGrid Residential Projects (D)**														
40	Expenditures Booked Directly to Plant		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
41	Retirements		41,327	21,974	(20,864)	0	0	0	0	0	0	0	0	0	42,437
42	Investments Booked to CWIP		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
44	Depreciation Base		55,299	23,649	23,094	33,526	33,526	33,526	33,526	33,526	33,526	33,526	33,526	33,526	
45															
46	Depreciation Expense		922	394	385	559	559	559	559	559	559	559	559	559	6,732
47															
48	Cumulative Plant Investment	75,963	34,636	12,662	33,526	33,526	33,526	33,526	33,526	33,526	33,526	33,526	33,526	33,526	33,526
49	Less: Accumulated Depreciation	65,930	25,525	3,945	25,194	25,753	26,312	26,871	27,430	27,989	28,548	29,107	29,666	30,225	30,225
50	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	Net Plant Investment	10,032	9,110	8,716	8,331	7,772	7,213	6,654	6,095	5,536	4,977	4,418	3,859	3,300	3,300
52	Average Investment		9,571	8,913	8,524	8,052	7,493	6,934	6,375	5,816	5,257	4,698	4,139	3,580	
53	Return on Average Investment		54	50	48	46	42	39	36	33	30	26	23	20	447
54															
55	Return Requirements		78	73	70	67	61	57	52	47	43	37	33	29	647
56															
57	Program Total		$1,000	$467	$455	$626	$620	$616	$611	$606	$602	$596	$592	$588	$7,379

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Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Schedule of Capital Investment, Depreciation & Return
January - June 2017 Actuals

Line No.	Program Demand (D) or Energy (E)	Beginning Balance	Act Jan 17	Act Feb 17	Act Mar 17	Act Apr 17	Act May 17	Act Jun 17	Est Jul 17	Est Aug 17	Est Sep 17	Est Oct 17	Est Nov 17	Est Dec 17	Total
1	**Residential Energy Management - Load Management Switches (D)**														
2	Expenditures Booked Directly to Plant		$582,155	$364,586	$531,287	$870,347	$298,506	$634,481	$694,917	$692,517	$692,517	$694,917	$692,517	$692,517	$7,441,264
3	Retirements		195,812	242,416	118,377	77,362	459,915	99,829	142,432	184,852	158,559	54,647	60,926	41,343	1,836,470
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		19,369,751	19,732,791	19,916,980	20,350,397	20,952,106	20,970,740	21,484,091	22,015,366	22,536,178	23,122,092	23,759,222	24,400,605	
7															
8	Amortization Expense		322,836	328,886	331,956	339,180	349,209	349,519	358,075	366,930	375,610	385,376	395,995	406,685	4,310,257
9															
10	Cumulative Plant Investment	19,467,656	19,853,999	19,976,169	20,389,079	21,182,063	21,020,654	21,555,307	22,107,792	22,615,457	23,149,415	23,789,685	24,421,276	25,072,450	25,072,450
11	Less: Accumulated Depreciation	4,824,562	4,951,586	5,038,056	5,251,635	5,513,452	5,402,746	5,652,436	5,868,080	6,050,158	6,267,209	6,597,938	6,933,007	7,298,349	7,298,349
12	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Net Plant Investment	14,643,094	14,902,413	14,938,113	15,137,444	15,668,611	15,617,908	15,902,870	16,239,712	16,565,299	16,882,206	17,191,747	17,488,269	17,774,101	17,774,101
14	Average Investment		14,772,754	14,920,263	15,037,778	15,403,028	15,643,260	15,760,389	16,071,291	16,402,506	16,723,753	17,036,977	17,340,008	17,631,185	
15	Return on Average Investment		82,961	83,790	84,449	86,501	87,849	88,507	89,924	91,777	93,575	95,327	97,023	98,651	1,080,334
16															
17	Return Requirements		120,590	121,795	122,753	125,735	127,695	128,651	129,427	132,094	134,682	137,204	139,645	141,988	1,562,259
18															
19	Program Total		$443,426	$450,681	$454,709	$464,915	$476,904	$478,170	$487,502	$499,024	$510,292	$522,580	$535,640	$548,673	$5,872,516
20	**Summary of Demand & Energy**														
21	Energy		$2,741	$2,723	$2,706	$2,688	$2,673	$2,654	$2,631	$2,613	$2,596	$2,578	$2,560	$2,544	$31,707
22	Demand		1,265,537	1,267,077	1,266,615	1,272,579	1,280,383	1,277,284	1,278,761	1,286,093	1,293,673	1,301,767	1,311,134	1,319,972	15,420,875
23	Total Return & Depreciation		$1,268,278	$1,269,800	$1,269,321	$1,275,267	$1,283,056	$1,279,938	$1,281,392	$1,288,706	$1,296,269	$1,304,345	$1,313,694	$1,322,516	$15,452,582

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Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Calculation of Interest Provision
January 2017 - December 2017

Line No.		Act Jan-17	Act Feb-17	Act Mar-17	Act Apr-17	Act May-17	Act Jun-17	Est Jul-17	Est Aug-17	Est Sep-17	Est Oct-17	Est Nov-17	Est Dec-17	Total
1	Beginning True-Up Amount (C3, Page 11, Lines 7 & 8)	($7,271,001)	($5,983,471)	($4,534,449)	($2,936,711)	($2,256,339)	($2,208,227)	($2,632,424)	($3,515,577)	($4,900,861)	($6,130,811)	($6,351,486)	($4,988,644)	
2	Ending True-Up Amount Before Interest (C3, Page 11, Lines 5,7-10)	(5,979,441)	(4,531,426)	(2,934,253)	(2,254,392)	(2,206,544)	(2,630,378)	(3,512,812)	(4,897,075)	(6,125,849)	(6,345,871)	(4,983,543)	(3,075,254)	
3	Total Beginning & Ending True-Up (Line 1 + Line 2)	(13,250,442)	(10,514,897)	(7,468,702)	(5,191,103)	(4,462,883)	(4,838,605)	(6,145,236)	(8,412,652)	(11,026,710)	(12,476,682)	(11,335,029)	(8,063,898)	
4	Average True-Up Amount (50% of Line 3)	(6,625,221)	(5,257,448)	(3,734,351)	(2,595,552)	(2,231,441)	(2,419,302)	(3,072,618)	(4,206,326)	(5,513,355)	(6,238,341)	(5,667,515)	(4,031,949)	
5	Interest Rate: First Day Reporting Business Month	0.72%	0.74%	0.64%	0.94%	0.86%	0.95%	1.08%	1.08%	1.08%	1.08%	1.08%	1.08%	
6	Interest Rate: First Day Subsequent Business Month	0.74%	0.64%	0.94%	0.86%	0.95%	1.08%	1.08%	1.08%	1.08%	1.08%	1.08%	1.08%	
7	Total (Line 5 & Line 6) (Line 5 + Line 6)	1.46%	1.38%	1.58%	1.80%	1.81%	2.03%	2.16%	2.16%	2.16%	2.16%	2.16%	2.16%	
8	Average Interest Rate (50% of Line 7)	0.730%	0.690%	0.790%	0.900%	0.905%	1.015%	1.080%	1.080%	1.080%	1.080%	1.080%	1.080%	
9	Interest Provision (Line 4 * Line 8) / 12	($4,030)	($3,023)	($2,458)	($1,947)	($1,683)	($2,046)	($2,765)	($3,786)	($4,962)	($5,615)	($5,101)	($3,629)	($41,045)

Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Energy Conservation Adjustment
Calculation of True-Up
January 2017 - December 2017

Line No.		Act Jan-17	Act Feb-17	Act Mar-17	Act Apr-17	Act May-17	Act Jun-17	Est Jul-17	Est Aug-17	Est Sep-17	Est Oct-17	Est Nov-17	Est Dec-17	Total
1	ECCR Revenues	$7,275,880	$7,574,080	$7,179,699	$8,001,792	$8,953,691	$9,776,981	$10,444,797	$10,953,222	$10,804,274	$9,802,422	$8,228,769	$7,692,143	$106,687,749
2	Prior Period True-Up Over/(Under) Recovery	605,917	605,917	605,917	605,917	605,917	605,917	605,917	605,917	605,917	605,917	605,917	605,917	7,271,001
3	ECCR Revenues Applicable to Period	7,881,796	8,179,997	7,785,616	8,607,708	9,559,608	10,382,898	11,050,713	11,559,139	11,410,191	10,408,339	8,834,686	8,298,060	113,958,750
4	ECCR Expenses	8,567,440	9,026,125	8,779,895	8,684,111	9,003,487	9,354,830	9,564,409	9,571,723	9,579,286	9,587,362	9,596,711	9,605,533	110,920,912
5	True-Up This Period (Over)/Under Recovery	685,643	846,128	994,279	76,402	(556,121)	(1,028,069)	(1,486,304)	(1,987,415)	(1,830,905)	(820,976)	762,026	1,307,474	(3,037,838)
6	Current Period Interest	(4,030)	(3,023)	(2,458)	(1,947)	(1,683)	(2,046)	(2,765)	(3,786)	(4,962)	(5,615)	(5,101)	(3,629)	(41,045)
7	Audit Adjustments	0	0	0	0	0	0	0	0	0	0	0	0	0
8	True-Up & Interest Provision Beginning of Period	(7,271,001)	(5,983,471)	(4,534,449)	(2,936,711)	(2,256,339)	(2,208,227)	(2,632,424)	(3,515,577)	(4,900,861)	(6,130,811)	(6,351,486)	(4,988,644)	(7,271,001)
9	GRT Refunded	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Prior Period True-Up Over/(Under) Recovery	605,917	605,917	605,917	605,917	605,917	605,917	605,917	605,917	605,917	605,917	605,917	605,917	7,271,001
11	End of Period Net True-Up	($5,983,471)	($4,534,449)	($2,936,711)	($2,256,339)	($2,208,227)	($2,632,424)	($3,515,577)	($4,900,861)	($6,130,811)	($6,351,486)	($4,988,644)	($3,078,883)	($3,078,883)

Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Calculation of ECCR Revenues
January 2018 - December 2018

Line No.	Month	Jurisdictional mWh Sales	ECCR Revenue Net of Revenue Taxes
1	January	2,972,586	$8,472,962
2	February	2,787,089	8,229,372
3	March	2,657,930	7,497,928
4	April	2,708,796	7,695,405
5	May	2,981,063	8,413,312
6	June	3,560,461	10,300,889
7	July	3,788,605	10,899,059
8	August	3,968,574	11,435,497
9	September	3,893,979	11,328,383
10	October	3,544,639	10,152,553
11	November	3,017,392	8,613,690
12	December	2,842,070	8,014,497
13	Total	38,723,184	$111,053,547

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

Class of Capital	Retail Amount	Ratio	Cost Rate	Weighted Cost Rate	PreTax Weighted Cost Rate
CE	$4,664,905	46.35%	0.10500	4.867%	7.924%
PS	0	0.00%	0.00000	0.000%	0.000%
LTD	3,327,189	33.06%	0.05470	1.809%	1.809%
STD	373,704	3.71%	0.00580	0.022%	0.022%
CD-Active	182,948	1.82%	0.02300	0.042%	0.042%
CD-Inactive	1,367	0.01%	0.00000	0.000%	0.000%
ADIT	223	0.00%	0.00000	0.000%	0.000%
FAS 109	(161,369)	-1.60%	0.00000	0.000%	0.000%
ITC	1,674,675	16.64%	0.00000	0.000%	0.000%
Total	$10,063,642	100.00%		6.739%	9.796%
			Total Debt	1.872%	1.872%
			Total Equity	4.867%	7.924%

May 2016 DEF Surveillance Report capital structure and cost rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Dockets 20120001-EI, 20120002-EI & 20120007-EI.

Class of Capital	Retail Amount	Ratio	Cost Rate	Weighted Cost Rate	PreTax Weighted Cost Rate
CE	$4,711,485,475	44.73%	10.50%	4.697%	7.646%
PS	3,931,532,102	37.33%	5.29%	1.975%	1.975%
LTD	102,874,989	0.98%	0.21%	0.002%	0.002%
STD	0	0.00%	0.00%	0.000%	0.000%
CD-Active	191,024,808	1.81%	2.26%	0.041%	0.041%
CD-Inactive	1,455,315	0.01%		0.000%	0.000%
ADIT	1,967,889	0.02%		0.000%	0.000%
FAS 109	1,772,932,910	16.83%		0.000%	0.000%
ITC	(180,390,549)	-1.71%		0.000%	0.000%
Total	$10,532,882,939	100.00%		6.714%	9.664%
			Total Debt	2.018%	2.018%
			Total Equity	4.697%	7.646%

May 2017 DEF Surveillance Report capital structure and cost rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Dockets 20120001-EI, 20120002-EI & 20120007-EI.

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 2018 - December 2018: It is estimated that 30,500 customers will participate in this program during the projection period.

Program Fiscal Costs - January 2018 - December 2018: Costs for this program are projected to be $5,386,225.

Program Progress Summary: As of year-to-date, June 30, 2017, 19,999 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 2018 - December 2018: It is estimated that 13,728 completions will be performed in this program during the projection period.

Program Fiscal Costs - January 2018 - December 2018: Costs for this program are projected to be $6,811,611.

Program Progress Summary: As of year-to-date, June 30, 2017, 13,880 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 2018 - December 2018: 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 2018 - December 2018: Costs for this program are projected to be $3,324,211.

Program Progress Summary: As of year-to-date, June 30, 2017, there have been 34,224 measures installed on 2232 homes and a monthly average of 15,604 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 2018 - December 2018: It is estimated that 1,750 weatherization measures will be installed on 500 residential homes.

Program Fiscal Costs - January 2018 - December 2018: Costs for this program are projected to be $366,079.

Program Progress Summary: As of year-to-date, June 30, 2017, there have been 614 measures installed on 151 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 682 MW's of winter and 366 MW's of summer load reduction. Approximately 428,000 customers currently participate in the program requiring over 550,000 control switches.

Program Projections - January 2018 - December 2018: During this period DEF anticipates adding 8,700 new participants to the current portfolio of approximately 428,000 participants.

Program Fiscal Costs - January 2018 - December 2018: Program costs during this period are projected to be $47,214,745.

Program Progress Summary: Through year-to-date, June 30, 2017, a total of 4,615 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. These audits can be completed over the phone or at the customer's facility by a qualified Duke Energy Assessor. This program acts as a motivational tool to identify, evaluate and inform consumers on cost effective energy saving measures at their facility. The Business Energy Check Program serves as the foundation for the Better Business Program.

Program Projections - January 2018 - December 2018: It is estimated that 500 customers will participate in this program during the projection period.

Program Fiscal Costs - January 2018 - December 2018: Costs for this program are projected to be $949,909.

Program Progress Summary: As of year-to-date, June 30, 2017, 259 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 2018 - December 2018: It is estimated that 600 measure installations will take place as a result of this program during the projection period.

Program Fiscal Costs - January 2018 - December 2018: Costs for this program are projected to be $3,396,413.

Program Progress Summary: As of year-to-date, June 30, 2017, 375 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 2018 - December 2018: It is estimated that 33 customers will participate in the program during the projection period.

Program Fiscal Costs - January 2018 - December 2018: Costs for this program are projected to be $585,774.

Program Progress Summary: As of year-to-date June 30, 2017, 2 customers have participated in this program.

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 2018 - December 2018: It is estimated that 10 new installations will be completed during the projection period.

Program Fiscal Costs - January 2018 - December 2018: Expenses for this program are projected to be $4,725,294.

Program Progress Summary: As of June 30, 2017, there are 174 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 2018 - December 2018: 39 new accounts are estimated to sign up for this program during the projection period.

Program Fiscal Costs - January 2018 - December 2018: Costs for this program are projected to be $33,139,086.

Program Progress Summary: As of June 30, 2017, there are 138 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 2018 - December 2018: No new participants are expected during the projection period.

Program Fiscal Costs - January 2018 - December 2018: Costs for this program are projected to be $1,981,688.

Program Progress Summary: As of June 30, 2017, 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 2018 - December 2018: 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 2018:

- EPRI Variable Capacity Heat Pump Air Conditioner
- Florida Building Automated Energy Efficiency and Demand Response
- Renewable SEEDS (alternative energy with storage)
- Energy Management Circuit Breakers
- Smart Charging for Electric Transportation
- Smart Appliances for Demand Management and Customer EE
- EPRI programs (energy efficiency, energy storage, integration of renewable resources, electric transportation infrastructure)

Program Fiscal Costs - January 2018 - December 2018: 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:

- EPRI Variable Capacity Heat Pump Air Conditioner: This project was designed to study improvements in efficiency and peak load reductions from using ultra high-efficiency heat pumps in Florida. Based on 2013 and 2014 data analysis from the participant homes, these heat pumps reduced energy use and heat strip use on peak demand. However, additional improvements in demand reduction were achieved by modifying controls and reducing the rating of the strip heat in these installations. Two additional technologies are being demonstrated at two additional sites. Significant improvements in energy efficiency have been documented at these sites. Winter data from 2017 showed good performance and these systems will be monitored through April 2018 to further document winter performance.
- Florida Building Automated Energy Efficiency and Demand Response: This project will

Program Description and Progress

explore the potential for developing a Florida program for EE and DR improvements through customer energy optimization products. Working with USF, automated demand response technology has been implemented and is currently being demonstrated on its St. Petersburg campus. Data collection and analysis has shown significant improvements in EE. Demand response testing has shown significant DR capability for this system.

- Renewable SEEDS: This project consists of two sites with PV systems integrated with energy storage. Both of these sites have demonstrated smoothing, energy shifting and demand response capabilities. These sites will be maintained in 2018 and will demonstrate aggregation of distributed energy storage.
- 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. In 2018, this pilot will be continued and enhanced with breakers that function as electric vehicle chargers. We will document the operation of these breakers and assess the cost-effectiveness for potential EE and DR programs.
- Flexible Demand Response Project: This project will explore the potential for a Florida program for utilizing advanced appliance demand response capabilities to provide additional power system benefits including frequency response and responding to the flexibility requirements of renewable generation.
- Smart charging for electric transportation: Testing will include analysis of residential and 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. Duke Energy Florida, 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 ordinary appliances including water heaters, pool pumps, and electric vehicle chargers. The functionality of these devices is being verified in field demonstrations for program development.

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 2018 - December 2018: DEF will continue to engage with interested parties wanting to provide cogeneration or renewable resources to DEF. Discussions around potential projects, grid access and avoided cost with renewables, energy storage, and combined heat and power developers who are exploring distributed generation options remain heavy as the technologies advance, the markets change, and the associated policies are refined. As the number of potential QFs that engage DEF increase, additional planning, forecasting, and screening techniques will be needed. 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 and agreements, insurance requirements, and performance security. DEF will continue to prudently administer all executed and in-service QF contracts for compliance.

Program Fiscal Costs - January 2018 - December 2018: Costs for this program are projected to be $1,254,868.

Program Progress Summary: DEF has approximately 888 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 177 MW. Approximately 67 MW of renewables are delivering energy to the Company on an as-available basis and 310 MW of Qualified renewables are under development. Finally, DEF currently has over 5,900 MW of distributed energy resources and renewables in its State Pre-Application, State Application, and FERC jurisdictional interconnection queues.