

Stephanie A. Cuello

May 2, 2023

VIA ELECTRONIC FILING

Adam J. Teitzman, Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850

Re: Energy Conservation Cost Recovery Clause; Docket No. 20230002-EG

Dear Mr. Teitzman:

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

- DEF's Petition for Approval of True-Up Amount for the Period January 2022 through December 2022; and
- Direct Testimony of Karla Rodriguez with attached Exhibit No. ___(KR-1T).

Thank you for your assistance in this matter and if you have any questions, please feel free to contact me at (850) 521-1425.

Sincerely,

/s/ Stephanie A. Cuello

Stephanie A. Cuello

SAC/clg Attachments



BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Energy Conservation Cost Recovery Clause Docket No. 20230002-EG

Filed: May 2, 2023

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

Pursuant to Order No. PSC-2023-0086-PCO-EG, issued February 15, 2023, in the

above-referenced docket, Duke Energy Florida, LLC ("DEF" or "the Company") petitions

the Florida Public Service Commission ("Commission") for approval of an over-recovery

of \$862,479 as DEF's adjusted net true-up amount for the period January 2022 through

December 2022. In support of this petition, DEF states:

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

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

2. The Petitioner's name and address are:

Duke Energy Florida, LLC 299 1st Avenue North St. Petersburg, Florida 33701

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

should be directed to:

Dianne M. Triplett Deputy General Counsel Duke Energy Florida 299 1st Avenue North St. Petersburg, FL 33701 (727) 820-4692 telephone Dianne.Triplett@duke-energy.com Matthew R. Bernier Associate General Counsel Duke Energy Florida 106 E. College Avenue, Suite 800 Tallahassee, FL 32301 (850) 521-1428 telephone Matthew.Bernier@duke-energy.com Stephanie A. Cuello Duke Energy Florida, LLC 106 E. College Avenue, Suite 800 Tallahassee, FL 32301 <u>Stephanie.Cuello@duke-energy.com</u> <u>FLRegulatoryLegal@duke-energy.com</u> (850) 521-1425 telephone (727) 820-5041 (fax)

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

4. DEF seeks Commission approval of an over-recovery of \$862,479 as the adjusted net true-up amount for the period January 2022 through December 2022. DEF's final adjusted net true-up amount for the period January 2022 through December 2022 was calculated consistent with the methodology set forth in Schedule 1 attached to Commission Order No. 10093, dated June 19, 1981. This calculation and supporting documentation are contained in Exhibit No. (KR-1T), an exhibit attached to the prefiled testimony of DEF's witness Karla Rodriguez, which is being filed in conjunction with this petition.

5. As reflected on Schedule CT-1 of Exhibit No. (KR-1T) to Ms. Rodriguez' testimony, the adjusted net true-up for the period January 2022 through December 2022 is an over-recovery of \$862,479, which is the difference of the actual true-up over-recovery of \$7,706,868 and the estimated/actual true-up over-recovery of \$6,844,389.

WHEREFORE, DEF respectfully requests that the Commission approve an over-

recovery of \$862,479 as the final adjusted net true-up amount for the period January 2022

through December 2022.

Respectfully submitted this 2nd day of May, 2023.

/s/ Stephanie A. Cuello

DIANNE M. TRIPLETT

Deputy General Counsel Duke Energy Florida, LLC 299 1st Avenue North St. Petersburg, FL 33701 T: 727.820.4692; F: 727.820.5519 E: Dianne.Triplett@duke-energy.com

MATTHEW R. BERNIER

Associate General Counsel Duke Energy Florida, LLC 106 E. College Avenue, Suite 800 Tallahassee, FL 32301 T: 850.521.1428; F: 727.820.5519 E: Matthew.Bernier@duke-energy.com

STEPHANIE A. CUELLO

Senior Counsel Duke Energy Florida, LLC 106 E. College Avenue, Suite 800 Tallahassee, FL 32301 T: 850.521.1425; F: 727.820.5041 E: Stephanie.Cuello@duke-energy.com FLRegulatoryLegal@duke-energy.com

CERTIFICATE OF SERVICE Docket No. 20230002-EG

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 2nd day of May, 2023.

/s/ Stephanie A. Cuello Attorney

Jacob Imig	M. Wessling/C. Rehwinkel/P. Christensen
Timothy Sparks	Office of Public Counsel
Office of General Counsel	111 West Madison Street, Room 812
Florida Public Service Commission	Tallahassee, FL 32399-1400
2540 Shumard Oak Blvd.	wessling.mary@leg.state.fl.us
Tallahassee, FL 32399-0850	christensen.patty@leg.state.fl.us
jimig@psc.state.fl.us	rehwinkel.charles@leg.state.fl.us
tsparks@psc.state.fl.us	
	Beth Keating
J. Wahlen / M. Means / V. Ponder	FPUC
Tampa Electric Company	215 South Monroe Street, Suite 601
P.O. Box 391	Tallahassee, FL 32301
Tallahassee, FL 32302	bkeating@gunster.com
jwahlen@ausley.com	
mmeans@ausley.com	Paula K. Brown
vponder@ausley.com	Tampa Electric Company
	P.O. Box 111
Jon C. Moyle, Jr.	Tampa, FL 33601
FIPUG	regdept@tecoenergy.com
118 North Gadsden Street	
Tallahassee, FL 32301	Kenneth A. Hoffman
jmoyle@moylelaw.com	Florida Power & Light Company
mqualls@moylelaw.com	134 W. Jefferson Street
	Tallahassee, FL 32301-1713
Maria Jose Moncada / William P. Cox	ken.hoffman@fpl.com
Florida Power & Light Company	
700 Universe Boulevard	Mike Cassel
Juno Beach, FL 33408-0420	Florida Public Utilities Company
maria.moncada@fpl.com	208 Wildlight Avenue
will.p.cox@fpl.com	Yulee, FL 32097
	mcassel@fpuc.com
James W. Brew / Laura W. Baker	
PCS Phosphate	
1025 Thomas Jefferson Street, N.W.	
Eighth Floor, West Tower	
Washington, D.C. 20007	
jbrew@smxblaw.com	
<u>lwb@smxblaw.com</u>	

DUKE ENERGY FLORIDA, LLC

DOCKET NO. 20230002-EG

Energy Conservation and Cost Recovery Final True-up for the Period January through December 2022

DIRECT TESTIMONY OF Karla Rodriguez

May 2, 2023

- Q. Please state your name and business address.
- A. My name is Karla Rodriguez. My business address is 299 1st Ave N, St. Petersburg, FL 33701.
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Q. By whom are you employed and in what capacity?

- A. I am employed by Duke Energy Business Services, LLC, as Sr. Strategy & Collaboration Manager in the Portfolio Analysis and Regulatory Strategy department.
 Duke Energy Business Services and Duke Energy Florida, LLC ("DEF" or "the Company") are both wholly owned subsidiaries of Duke Energy Corporation.
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Q. What are your duties and responsibilities in that position?

- A. My responsibilities include 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.
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Q. What is the purpose of your testimony?

A. The purpose of my testimony is to compare DEF's 2022 actual energy conservation program costs with actual revenues collected through the Company's Energy Conservation Cost Recovery ("ECCR") Clause during the period January 2022 through December 2022. The Company relies upon the information presented in my testimony and exhibit in the conduct of its affairs.

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

A. DEF seeks recovery through the ECCR Clause for conservation programs approved by the Commission as part of the Company's DSM Plan, as well as for Conservation Program Administration (i.e., those common administration expenses not specifically assigned to an individual program). Notably, DEF seeks recovery of costs for conservation programs approved by the Commission on August 3, 2020 (see Order No. PSC-2020-0274-PAA-EG), as follows:

14	PSC-2020-02/4-PAA-EG), as follows:
15	Home Energy Check
16	Residential Incentive
17	Neighborhood Energy Saver
18	Low-Income Weatherization Assistance Program
19	Load Management (Residential and Commercial)
20	Business Energy Check
21	• Better Business a/k/a Smart \$aver Business
22	Smart \$aver Custom Incentive
23	Standby Generation

1		Interruptible Service
2		Curtailable Service
3		Technology Development
4		Qualifying Facility
5		
6	Q.	Do you have any exhibits to your testimony?
7	А.	Yes, Exhibit No(KR-1T) entitled, "Duke Energy Florida, LLC Energy
8		Conservation Adjusted Net True-Up for the Period January 2022 through December
9		2022." There are six (6) schedules included in this exhibit.
10		
11	Q.	Will you please explain your exhibit?
12	А.	Yes. Exhibit No(KR-1T) presents Schedules CT-1 through CT-6. Schedules CT-1
12 13	А.	Yes. Exhibit No(KR-1T) presents Schedules CT-1 through CT-6. Schedules CT-1 to CT-4 set out actual costs incurred for all programs during the period from January
12 13 14	А.	Yes. Exhibit No(KR-1T) presents Schedules CT-1 through CT-6. Schedules CT-1 to CT-4 set out actual costs incurred for all programs during the period from January 2022 through December 2022. These schedules also illustrate variances between actual
12 13 14 15	А.	Yes. Exhibit No(KR-1T) presents Schedules CT-1 through CT-6. Schedules CT-1 to CT-4 set out actual costs incurred for all programs during the period from January 2022 through December 2022. These schedules also illustrate variances between actual costs and previously projected values for the same time period. Schedule CT-5 provides
12 13 14 15 16	A.	Yes. Exhibit No(KR-1T) presents Schedules CT-1 through CT-6. Schedules CT-1 to CT-4 set out actual costs incurred for all programs during the period from January 2022 through December 2022. These schedules also illustrate variances between actual costs and previously projected values for the same time period. Schedule CT-5 provides a brief summary of each conservation program that includes a program description,
12 13 14 15 16 17	А.	Yes. Exhibit No(KR-1T) presents Schedules CT-1 through CT-6. Schedules CT-1 to CT-4 set out actual costs incurred for all programs during the period from January 2022 through December 2022. These schedules also illustrate variances between actual costs and previously projected values for the same time period. Schedule CT-5 provides a brief summary of each conservation program that includes a program description, program accomplishments, annual program expenditures, significant program cost
12 13 14 15 16 17 18	A.	Yes. Exhibit No(KR-1T) presents Schedules CT-1 through CT-6. Schedules CT-1 to CT-4 set out actual costs incurred for all programs during the period from January 2022 through December 2022. These schedules also illustrate variances between actual costs and previously projected values for the same time period. Schedule CT-5 provides a brief summary of each conservation program that includes a program description, program accomplishments, annual program expenditures, significant program cost variances versus projections and a program progress summary over the twelve-month
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12 13 14 15 16 17 18 19 20	A.	Yes. Exhibit No(KR-1T) presents Schedules CT-1 through CT-6. Schedules CT-1 to CT-4 set out actual costs incurred for all programs during the period from January 2022 through December 2022. These schedules also illustrate variances between actual costs and previously projected values for the same time period. Schedule CT-5 provides a brief summary of each conservation program that includes a program description, program accomplishments, annual program expenditures, significant program cost variances versus projections and a program progress summary over the twelve-month period ending December 2022. Schedule CT-6 is DEF's capital structure and cost rates.
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12 13 14 15 16 17 18 19 20 21 22	А. Q. А.	Yes. Exhibit No(KR-1T) presents Schedules CT-1 through CT-6. Schedules CT-1 to CT-4 set out actual costs incurred for all programs during the period from January 2022 through December 2022. These schedules also illustrate variances between actual costs and previously projected values for the same time period. Schedule CT-5 provides a brief summary of each conservation program that includes a program description, program accomplishments, annual program expenditures, significant program cost variances versus projections and a program progress summary over the twelve-month period ending December 2022. Schedule CT-6 is DEF's capital structure and cost rates. Would you please discuss Schedule CT-1? Yes. Schedule CT-1 line 14 shows that DEF's actual end-of-period ECCR true-up for
12 13 14 15 16 17 18 19 20 21 22 23	А. Q. А.	Yes. Exhibit No(KR-1T) presents Schedules CT-1 through CT-6. Schedules CT-1 to CT-4 set out actual costs incurred for all programs during the period from January 2022 through December 2022. These schedules also illustrate variances between actual costs and previously projected values for the same time period. Schedule CT-5 provides a brief summary of each conservation program that includes a program description, program accomplishments, annual program expenditures, significant program cost variances versus projections and a program progress summary over the twelve-month period ending December 2022. Schedule CT-6 is DEF's capital structure and cost rates. Would you please discuss Schedule CT-1? Yes. Schedule CT-1 line 14 shows that DEF's actual end-of-period ECCR true-up for December 31, 2022, was an over-recovery of \$862,479, including principal and interest.

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Q. What does Schedule CT-2 show?

A. The four pages of Schedule CT-2 provide an annual summary of conservation program revenues as well as itemized conservation program costs for the period January 2022 through December 2022 detailing actual, estimated and variance calculations by program. These costs are directly attributable to DEF's Commission-approved programs.

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Q. Would you please discuss Schedule CT-3?

A. Yes. Page one of Schedule CT-3 provides actual conservation program costs by
month for the period January 2022 through December 2022. Page two of Schedule
CT-3 presents program revenues by month offset by expenses, a calculation of the
end of period net true-up for each month, and the total for the year. Page three
provides the monthly interest calculation. Page four of Schedule CT-3 provides
conservation account numbers for the 2022 calendar year.

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

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

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20 Q. Would you please discuss Schedule CT-5?

A. Yes. Schedule CT-5 provides a brief summary of each conservation program that
 includes a program description, program accomplishments, annual program

1		expenditures, significant program cost variances versus projections and a program
2		progress summary for the 2022 calendar year.
3		
4	Q.	What is the purpose of Schedule CT-6?
5	A.	Schedule CT-6 is the capital structure and cost rates used to calculate the return for
6		each applicable conservation program.
7		
8	Q.	What capital structure and cost rates did DEF rely on to calculate the revenue
9		requirement rate of return for the period January 2022 through December
10		2022?
11	А.	DEF used the capital structure and cost rates consistent with the language in Order
12		No. PSC-2020-0165-PAA-EU. The capital structure and cost rates relied on to
13		calculate the revenue requirement rate of return for the period January 2022 through
14		December 2022 are shown on Schedule CT-6.
15		
16	Q.	What is the source of data used to calculate the true-up amount.
17	А.	The actual data used in calculating the actual true-up amounts is from DEF's records
18		unless otherwise indicated. These records are kept in the regular course of DEF's
19		business in accordance with general accounting principles and practices, provisions
20		of the Uniform System of Accounts as prescribed by the Federal Energy Regulatory
21		Commission and any accounting rules and orders established by this Commission.
22		Pursuant to Rule 25-17.015(3), F.A.C., DEF provides a list of all account numbers

used for conservation cost recovery during the period January 2022 through December 2022 on Schedule CT-3 pages 4 and 5.

Q. Does this conclude your Direct Testimony?

A. Yes.

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Docket No. 20230002-EG Duke Energy Florida Witness: Karla Rodriguez Exhibit No.__(KR-1T) Schedule CT-1 Page 1 of 1 May 2, 2023

Duke Energy Florida, LLC

Energy Conservation Adjusted Net True-Up For the Period January 2022 through December 2022

Line No.

1	Actual End of Period True-Up (Over) / Under Recovery		
2	Beginning Balance	\$19,360,611	
3	Principal (CT 3, PAGE 2 of 4)	(6,566,123)	
4	Interest (CT 3, PAGE 3 of 4)	(214,032)	
5	Prior True-Up Refund	(19,360,611)	
6	Adjustments	(926,713)	(\$7,706,868)
7	Less: Estimated True-Up from August 2022		
8	Projection Filing (Over) /Under Recovery		
9	Beginning Balance	19,360,611	
10	Principal	(5,794,348)	
11	Interest	(132,904)	
12	Prior True-Up Refund	(19,360,611)	
13	Adjustments	(917,137)	(\$6,844,389)
14	Variance to Projection		(\$862,479)

Docket No. 20230002-EG Duke Energy Florida Witness: Karla Rodriguez Exhibit No.__(KR-1T) Schedule CT-2 Page 1 of 4 May 2, 2023

Duke Energy Florida, LLC

Analysis of Energy Conservation Program Costs Actual vs. Estimated For the Period January 2022 through December 2022

Line No.	Program	Actual	Estimated	Difference
1	Depreciation Amortization & Return	6,444,730	6,523,555	(78,825)
2	Payroll & Benefits	10,590,442	10,870,073	(279,631)
3	Materials & Supplies	498,769	265,234	233,535
4	Outside Services	3,809,773	4,787,323	(977,550)
5	Advertising	710,230	902,500	(192,270)
6	Incentives	87,457,041	89,232,555	(1,775,514)
7	Vehicles	255,611	241,676	13,935
8	Other	405,559	404,086	1,473
9	Program Revenues	0	0	0
10	Total Program Costs	110,172,154	113,227,001	(3,054,848)
12	Conservation Clause Revenues	97 377 666	\$99 660 738	(2 283 073)
13	Prior True-Up	19,360,611	19,360,611	(_,0
14 15 16	True-Up Before Interest Adjustment Interest Provision	(6,566,123) (926,713) (214,032)	(5,794,348) (917,137) (132,904)	(771,775) (9,576) (81,128)
17	End of Period True-Up	(7,706,868)	(6,844,389)	(862,479)

() Reflects Over-Recovery

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

Docket No. 20230002-EG Duke Energy Florida Witness: Karla Rodriguez Exhibit No.__(KR-1T) Schedule CT-2 Page 2 of 4 May 2, 2023

Duke Energy Florida, LLC

Actual Energy Conservation Program Costs Per Program For the Period January 2022 through December 2022

Line		Depreciation Amortization	Payroll		Outside	Materials					Program Revenues	
No.	Program	& Return	& Benefits	Vehicles	Services	& Supplies	Advertising	Incentives	Other	Sub-Total	(Credit)	Total
1 Home Energy	w Check	0	2 704 808	107 247	31/ 017	118 158	112 581	580 /01	32 120	1 300 716	0	1 300 716
2 Residential In	ncentive Program	0	1 059 094	45 471	228 950	7 688	96 931	1 843 977	40 103	3 322 214	0	3 322 214
3 Rusiness En	erav Check	0	345 777	3 609	45 468	45 359	10 671	22 696	9 685	483 266	0	483 266
4 Better Busine	ess a/k/a Smart \$aver Business	0	94 <i>3,111</i> 944 444	1 630	150 052	40,000	43 660	374 317	21 654	1 536 688	0	1 536 688
5 Technology [Development	0	136 027	4 930	62 342	56 737	40,000 0	0,4,017	1 467	261 504	0	261 504
6 Smart \$aver	Custom Incentive	0	152 261	231	86,507	3 284	27 972	5 988	9 728	285 970	0	285,970
7 Interruptible 3	Service	310 094	452 357	20 754	1 550	16 568	21,012	46 207 082	20 348	47 028 753	0	47 028 753
8 Curtailable S	Service	0	24.508	0	107	0	0	2.571.702	6.299	2.602.615	0	2.602.615
9 Load Manage	ement (Residential & Commercial)	6.134.636	1.874.868	47.685	2.070.117	100.506	19.416	25.387.199	77.947	35.712.372	0	35.712.372
10 Low Income	Weatherization Assistance	0	164,013	1,984	0	0	0	80,408	5,682	252,087	0	252,087
11 Standby Gen	neration	0	305,828	15,185	3,705	6,370	0	5,872,867	6,868	6,210,824	0	6,210,824
12 Qualifying Fa	acility	0	874,164	1,204	16,108	54	0	0	3,265	894,795	0	894,795
13 Neighborhoo	od Energy Saver	0	193,657	4,578	503,309	1,360	68,995	4,501,313	15,021	5,288,234	0	5,288,234
14 Conservation	n Program Admin	0	1,358,546	1,094	326,641	141,762	0	0	155,073	1,983,117	0	1,983,117
15 Total All Prog	grams	6,444,730	10,590,442	255,611	3,809,773	498,769	710,230	87,457,041	405,559	110,172,154	0	110,172,154

Docket No. 20230002-EG Duke Energy Florida Witness: Karla Rodriguez Exhibit No.__(KR-1T) Schedule CT-2 Page 3 of 4 May 2, 2023

Duke Energy Florida, LLC

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

Lino		Depreciation	Povroll		Outsido	Matorials					Program	
No.	Program	& Return	& Benefits	Vehicles	Services	& Supplies	Advertising	Incentives	Other	Sub-Total	(Credit)	Total
1 Home Energy	IV Check	0	(79 152)	10 179	(166,344)	103 193	71 504	82 497	(15 999)	5 878	0	5 878
2 Residential Ir	ncentive Program	Ő	(29.603)	3.507	52.284	(1.198)	(54.922)	(732.992)	18.788	(744,136)	0 0	(744.136)
3 Business Ene	erav Check	0	10.821	1.110	(91,841)	11.412	(37.870)	(6.304)	5.167	(107,503)	0	(107.503)
4 Better Busine	ess a/k/a Smart \$aver Business	0	(53,354)	(3,695)	(60,790)	371	(29,674)	(298,996)	3,539	(442,599)	0	(442,599)
5 Technology	Development	0	10,160	(3,595)	(472,391)	54,049	Ú Ó	0	(33)	(411,811)	0	(411,811)
6 Smart \$aver	Custom Incentive	0	13,056	(98)	(29,769)	2,976	(28,140)	(90,000)	4,783	(127,193)	0	(127,193)
7 Interrupt ble S	Service	19,878	27,581	3,151	968	(24,635)	0	(69,208)	4,793	(37,472)	0	(37,472)
8 Curtailable S	Service	0	(13,659)	0	107	Û Û	0	(99,704)	(5,373)	(118,630)	0	(118,630)
9 Load Manage	ement (Residential & Commercial)	(98,703)	(92,744)	(2,434)	(84,826)	75,597	(129,480)	(824,221)	27,554	(1,129,258)	0	(1,129,258)
10 Low Income	Weatherization Assistance	0	(5,314)	818	0	(300)	(32,000)	(78,179)	(57)	(115,031)	0	(115,031)
11 Standby Gen	neration	0	42,165	5,512	1,208	(278)	0	18,172	1,936	68,715	0	68,715
12 Qualifying Fa	acility	0	(37,736)	(902)	(44,000)	(246)	0	0	341	(82,544)	0	(82,544)
13 Neighborhoo	od Energy Saver	0	10,495	(254)	(27,982)	431	48,312	323,420	2,856	357,279	0	357,279
14 Conservatior	n Program Admin	0	(82,346)	634	(54,173)	12,164	0	0	(46,823)	(170,544)	0	(170,544)
15 Total All Prog	grams	(78,825)	(279,631)	13,935	(977,550)	233,535	(192,270)	(1,775,514)	1,473	(3,054,848)	0	(3,054,848)

Docket No. 20230002-EG Duke Energy Florida Witness: Karla Rodriguez

Exhibit No.__(KR-1T) Schedule CT-2 Page 4 of 4 May 2, 2023

Duke Energy Florida, LLC

Estimated Energy Conservation Program Costs Per Program For the Period January 2022 through December 2022

		Depreciation									Program	
Line		Amortization	Payroll		Outside	Materials					Revenues	
No.	Program	& Return	& Benefits	Vehicles	Services	& Supplies	Advertising	Incentives	Other	Sub-Total	(Credit)	Total
1	Home Energy Check	0	2,784,050	97,068	481,261	14,965	371,080	506,994	48,419	4,303,838	0	4,303,838
2	Residential Incentive Program	0	1,088,696	41,963	176,666	8,887	151,853	2,576,969	21,315	4,066,350	0	4,066,350
3	Business Energy Check	0	334,956	2,498	137,309	33,947	48,541	29,000	4,518	590,769	0	590,769
4	Better Business a/k/a Smart \$aver Business	0	997,798	5,334	210,841	551	73,334	673,313	18,116	1,979,287	0	1,979,287
5	Technology Development	0	125,867	8,525	534,734	2,689	0	0	1,500	673,315	0	673,315
6	Smart \$aver Custom Incentive	0	139,205	329	116,277	308	56,112	95,988	4,944	413,163	0	413,163
7	Interruptible Service	290,216	424,777	17,603	582	41,203	0	46,276,290	15,554	47,066,225	0	47,066,225
8	Curtailable Service	0	38,167	0	0	0	0	2,671,406	11,671	2,721,245	0	2,721,245
9	Load Management (Residential & Commercial)	6,233,339	1,967,612	50,119	2,154,943	24,909	148,896	26,211,420	50,393	36,841,630	0	36,841,630
10	Low Income Weatherization Assistance	0	169,326	1,166	0	300	32,000	158,587	5,739	367,118	0	367,118
11	Standby Generation	0	263,664	9,672	2,497	6,648	0	5,854,695	4,932	6,142,108	0	6,142,108
12	Qualifying Facility	0	911,900	2,106	60,108	300	0	0	2,924	977,338	0	977,338
13	Neighborhood Energy Saver	0	183,162	4,832	531,291	929	20,684	4,177,893	12,165	4,930,954	0	4,930,954
14	Conservation Program Admin	0	1,440,892	460	380,815	129,599	0	0	201,896	2,153,661	0	2,153,661
	-											
15	Total All Programs	6,523,555	10,870,073	241,676	4,787,323	265,234	902,500	89,232,555	404,086	113,227,001	0	113,227,001

Duke Energy Florida, LLC

Actual Conservation Program Costs by Month For the Period January 2022 through December 2022

Line														
No.	Program	January	February	March	April	May	June	July	August	September	October	November	December	Total
4. Users En.		040 700	007.070	245 200	407.040	070 004	242.405	F44.900	222.000	000 547	050 475	774 070	220 500	4 200 740
1 Home Ene		218,728	267,070	315,290	487,643	276,804	313,125	544,866	333,990	283,547	258,175	//1,9/3	238,506	4,309,716
2 Residentia	al Incentive Program	295,138	170,381	287,385	222,285	222,937	353,524	232,887	448,463	301,517	268,968	251,788	266,941	3,322,214
3 Business I	Energy Check	36,663	34,782	38,480	41,247	37,220	35,001	33,352	64,510	39,703	40,496	35,562	46,250	483,266
4 Better Bus	siness a/k/a Smart \$aver Business	114,961	206,264	104,358	110,964	143,436	133,205	107,487	168,074	108,383	144,696	86,443	108,418	1,536,688
5 Technolog	gy Development	10,904	19,186	11,843	18,588	11,030	12,967	8,804	16,159	8,899	18,834	148,943	(24,652)	261,504
6 Smart \$av	ver Custom Incentive	21,358	16,910	22,119	29,150	36,217	28,148	27,953	29,097	23,050	17,412	16,018	18,538	285,970
7 Interrupt b	le Service	2,706,152	2,921,673	4,905,882	4,535,398	4,399,468	4,012,938	3,545,490	4,600,547	4,224,026	3,855,142	2,485,329	4,836,709	47,028,753
8 Curtailable	e Service	706,315	78,394	11,030	174,283	237,029	212,373	251,406	193,198	243,680	183,267	142,547	169,093	2,602,615
9 Load Man	agement (Residential & Commercial)	3,145,673	4,251,826	4,032,498	2,037,817	2,066,583	2,070,711	2,782,910	2,920,776	2,780,930	4,138,782	2,534,687	2,949,181	35,712,372
10 Low Incom	ne Weatherization Assistance	24,995	15,453	19,904	25,854	17,189	19,097	21,989	23,413	24,465	23,704	13,750	22,274	252,087
11 Standby G	Generation	443,862	465,215	472,763	571,721	865,043	485,617	483,173	494,040	460,420	460,587	472,234	536,147	6,210,824
12 Qualifying	Facility	67,694	75,155	103,810	75,075	78,488	80,015	81,422	65,358	85,499	77,541	55,661	49,075	894,795
13 Neighborh	nood Energy Saver	(117,380)	115,298	695,092	837,757	414,878	66,117	816,168	617,444	411,944	16,160	384,329	1,030,428	5,288,234
14 Conservat	tion Program Admin	186,235	128,487	242,879	115,154	165,035	220,067	154,874	146,078	231,279	212,758	24,773	155,498	1,983,117
15 Total All P	rograms	7,861,296	8,766,094	11,263,334	9,282,936	8,971,357	8,042,905	9,092,780	10,121,146	9,227,342	9,716,521	7,424,037	10,402,405	110,172,154
16 Less: Bas	e Rate Recovery	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Net Recov	verable (CT-3,Page 2, Line 4)	7,861,296	8,766,094	11,263,334	9,282,936	8,971,357	8,042,905	9,092,780	10,121,146	9,227,342	9,716,521	7,424,037	10,402,405	110,172,154

Duke Energy Florida, LLC Energy Conservation Cost Recovery Energy Conservation Adjustment Calculation of True-Up January 2022 - December 2022

Line No.	Act January	Act February	Act March	Act April	Act May	Act June	Act July	Act August	Act September	Act October	Act November	Act December	Total
1 ECCR Revenues	\$6,699,779	\$7,277,344	\$7,393,676	\$7,011,927	\$8,024,691	\$9,391,697	\$9,789,802	\$10,252,395	\$9,588,434	\$7,897,607	\$6,786,535	\$7,263,778	\$97,377,666
2 Prior Period True-Up Over/(Under) Recovery	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	19,360,611
3 ECCR Revenues Applicable to Period	8,313,164	8,890,729	9,007,060	8,625,312	9,638,075	11,005,081	11,403,186	11,865,779	11,201,819	9,510,992	8,399,919	8,877,163	116,738,277
4 ECCR Expenses	7,861,296	8,766,094	11,263,334	9,282,936	8,971,357	8,042,905	9,092,780	10,121,146	9,227,342	9,716,521	7,424,037	10,402,405	110,172,154
5 True-Up This Period (Over)/Under Recovery	(451,867)	(124,635)	2,256,274	657,624	(666,718)	(2,962,176)	(2,310,406)	(1,744,633)	(1,974,477)	205,529	(975,882)	1,525,243	(6,566,123)
6 Current Period Interest	(1,721)	(2,764)	(4,496)	(6,101)	(8,639)	(13,486)	(21,276)	(25,314)	(30,182)	(33,650)	(34,126)	(32,277)	(214,032)
7 Adjustments (Notes 1 & 2)	0	0	0	0	(917,137)	0	0	0	0	(9,576)	0	0	(926,713)
8 True-Up & Interest Provision Beginning of Period	(19,360,611)	(18,200,815)	(16,714,830)	(12,849,667)	(10,584,760)	(10,563,869)	(11,926,147)	(12,644,444)	(12,801,007)	(13,192,282)	(11,416,594)	(10,813,218)	(19,360,611)
9 GRT Refunded	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Prior Period True-Up Over/(Under) Recovery	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	1,613,384	19,360,611
11 End of Period Net True-Up	(\$18,200,815)	(\$16,714,830)	(\$12,849,667)	(\$10,584,760)	(\$10,563,869)	(\$11,926,147)	(\$12,644,444)	(\$12,801,007)	(\$13,192,282)	(\$11,416,594)	(\$10,813,218)	(\$7,706,868)	(\$7,706,868)

Docket No. 20230002-EG Duke Energy Florida Witness: Karla Rodriguez Exhibit No.__(KR-1T) Schedule CT-3 Page 2 of 4 May 2, 2023

	Duke Energy Florida, LLC Energy Conservation Cost Recovery Calculation of Interest Provision January 2022 - December 2022													Docket No. 20230002-EG Duke Energy Florida Witness: Karla Rodriguez Exhibit No(KR-1T) Schedule CT-3 Page 3 of 4 May 2, 2023		
Line No.		Act January	Act February	Act March	Act April	Act May	Act June	Act July	Act August	Act September	Act October	Act November	Act December	Total		
1	Beginning True-Up Amount (C3, Page 7, Lines 7 & 8)	(\$19,360,611)	(\$18,200,815)	(\$16,714,830)	(\$12,849,667)	(\$11,501,896)	(\$10,563,869)	(\$11,926,147)	(\$12,644,444)	(\$12,801,007)	(\$13,201,858)	(\$11,416,594)	(\$10,813,218)			
2	Ending True-Up Amount Before Interest (C3, Page 7, Lines 5,7-10)	(18,199,094)	(16,712,066)	(12,845,171)	(10,578,659)	(10,555,230)	(11,912,661)	(12,623,168)	(12,775,693)	(13,162,100)	(11,382,944)	(10,779,092)	(7,674,591)			
3	Total Beginning & Ending True-Up (Line 1 + Line 2)	(37,559,706)	(34,912,881)	(29,560,001)	(23,428,326)	(22,057,126)	(22,476,530)	(24,549,315)	(25,420,138)	(25,963,107)	(24,584,802)	(22,195,686)	(18,487,808)			
4	Average True-Up Amount (50% of Line 3)	(18,779,853)	(17,456,441)	(14,780,001)	(11,714,163)	(11,028,563)	(11,238,265)	(12,274,658)	(12,710,069)	(12,981,553)	(12,292,401)	(11,097,843)	(9,243,904)			
5	Interest Rate: First Day Reporting Business Month	0.08%	0.14%	0.24%	0.49%	0.76%	1.12%	1.76%	2.40%	2.38%	3.20%	3.37%	4.01%			
6	Interest Rate: First Day Subsequent Business Month	0.14%	0.24%	0.49%	0.76%	1.12%	1.76%	2.40%	2.38%	3.20%	3.37%	4.01%	4.37%			
7	Total (Line 5 & Line 6) (Line 5 + Line 6)	0.22%	0.38%	0.73%	1.25%	1.88%	2.88%	4.16%	4.78%	5.58%	6.57%	7.38%	8.38%			
8	Average Interest Rate (50% of Line 7)	0.11%	0.19%	0.37%	0.63%	0.94%	1.44%	2.08%	2.39%	2.79%	3.29%	3.69%	4.19%			
9	Interest Provision (Line 4 * Line 8) / 12	(\$1,721)	(\$2,764)	(\$4,496)	(\$6,101)	(\$8,639)	(\$13,486)	(\$21,276)	(\$25,314)	(\$30,182)	(\$33,650)	(\$34,126)	(\$32,277)	(\$214,032)		

Docket No. 20230002-EG Duke Energy Florida Witness: Karla Rodriguez Exhibit No.__(KR-1T) SCHEDULE CT-3 Page 4 of 4 May 2, 2023

Duke Energy Florida, LLC Conservation Account Numbers For the Period January 2022 - December 2022

No	Account	Product	Drogram
1	0008000		Homo Enorgy Chook
1	0908000		Home Energy Check
1	0909000	HEHC	Home Energy Check (Advertising)
2	0908000	SSHEI	Residential Incentive Program
2	0909000	SSHEI	Residential Incentive Program (Advertising)
			° (°)
3	0908000	NRAOS	Business Energy Check
3	0909000	NRAOS	Business Energy Check (Advertising)
4	0908000	NRBBUS	Better Business a/k/a Smart \$aver Business
4	0909000	NRBBUS	Better Business a/k/a Smart \$aver Business (Advertising)
F	0008000	TEODEV	Tashnalagu Davalanmant
Э	0906000	TECDEV	rechnology Development
6	0908000	NRPRSC	Smart \$aver Custom Incentive
6	0909000	NRPRSC	Smart \$aver Custom Incentive (Advertising)
7	0908000	IRRSVC	Interrupt ble Service
8	0908000	PWRSHR	Curtailable Service
9	0908000	PWRMGR	Load Management - Residential
9	0908002	PWRMGR	Load Management - Residential (Amortization of Load Mgmt Switches)
9	0909000	PWRMGR	Load Management - Residential (Advertising)
9	0182398	PWRMGR	Load Management - Residential (Switch installation)
9	0182309	PWRMGR	Load Management - Residential (Amortization of Load Mgmt Switches)
10	0908000	COMLM	Load Management - Commercial
11	0908000	WZELEC	Low Income Weatherization Assistance
11	0909000	WZELEC	Low Income Weatherization Assistance (Advertising)
10	000000	OTROEN	Other the Original time
12	0908000	SIBGEN	Standby Generation
12	0008000	PROON	Qualitying Equility
13	0908000	FFCOGN	Qualitying Facility
14	0908000	HWU	Neighborhood Energy Saver
14	0909000	HWU	Neighborhood Energy Saver (Advertising)
••	3000000		
15	0908000	NOPROD	Conservation Program Admin
			5

Duke Energy Florida, LLC Energy Conservation Cost Recovery Schedule of Capital Investment, Depreciation & Return January 2022 - December 2022

Line	Program	Beginning	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	
<u>No.</u>	Demand (D) or Energy (E)	Balance	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 2 3	Interruptible Service (D) Investments Retirements		\$0 0	\$0 0	\$0 11,969	\$651,385 0	\$0 0	\$0 0	\$0 0	\$409,347 0	\$169,176 0	\$0 0	\$160,896 0	\$0 0	\$1,390,803 11,969
4 5	Depreciation Base		531,992	531,992	526,007	520,023	1,171,407	1,171,407	1,171,407	1,171,407	1,580,754	1,749,930	1,749,930	1,910,826	
6 7	Depreciation Expense		8,867	8,867	8,767	8,667	19,524	19,524	19,524	19,524	26,346	29,166	29,166	31,848	229,790
8	Cumulative Investment	531,992	531,992	531,992	520,023	1,171,407	1,171,407	1,171,407	1,171,407	1,580,754	1,749,930	1,749,930	1,910,826	1,910,826	1,910,826
9	Less: Accumulated Depreciation	80,234	89,101	97,968	94,766	103,433	122,957	142,481	162,005	181,529	207,875	237,041	266,207	298,055	298,055
10		451,758	442,891	434,024	425,257	1,067,974	1,048,450	1,028,926	1,009,402	1,399,225	1,542,055	1,512,889	1,644,619	1,612,771	1,012,771
11	Average Investment Return on Average Investment (Note 1)		447,324	430,437	429,640	/40,015	1,000,212	1,030,000	1,019,104	1,204,314	1,470,640	1,527,472	1,576,754	1,028,095	80 304
12	Return on Average investment (Note T)		2,023	2,700	2,711	4,711	0,070	0,555	0,432	7,741	9,455	9,010	10,147	10,409	80,304
14	Program Total	=	\$11,690	\$11,633	\$11,478	\$13,378	\$26,202	\$26,079	\$25,956	\$27,265	\$35,799	\$38,984	\$39,313	\$42,317	\$310,094
15 Residential Energy Management - Load Management Switches (D)															
16	Expenditures Booked Directly to Plant		\$241,382	\$113,495	\$249,606	\$14,611	\$125,299	\$2,203	\$71,536	\$277,124	\$130,161	(\$103,282)	\$182,952	\$181,351	\$1,486,438
17	Retirements		582,155	364,586	531,287	870,347	298,506	634,481	424,784	967,595	225,056	586,697	564,912	552,360	6,602,768
18	Investments Booked to CWIP		0	0	0	0	0	0	0	0	0	0	0	0	0
19	Closings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
20 21	Amortization Base	-	29,066,979	28,834,990	28,500,549	28,049,339	27,479,523	27,138,328	26,610,898	25,986,245	25,667,043	25,391,327	24,712,240	24,336,556	
22 23	Amortization Expense		484,459	480,593	475,019	467,498	458,001	452,315	443,524	433,113	427,793	423,197	411,879	405,617	5,363,008
24	Cumulative Plant Investment	29,358,056	29,017,283	28,766,193	28,484,512	27,628,776	27,455,569	26,823,290	26,470,043	25,779,571	25,684,675	24,994,696	24,612,736	24,241,727	24,241,727
25	Less: Accumulated Depreciation	17,268,622	17,170,926	17,286,934	17,230,665	16,827,816	16,987,311	16,805,145	16,823,885	16,289,403	16,492,139	16,328,639	16,175,606	16,028,862	16,028,862
26	Cumulative CWIP Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Net Plant Investment	12,089,434	11,846,357	11,479,259	11,253,847	10,800,960	10,468,257	10,018,145	9,646,158	9,490,168	9,192,536	8,666,057	8,437,130	8,212,864	8,212,864
28	Average Investment		11,967,895	11,662,808	11,366,553	11,027,403	10,634,608	10,243,201	9,832,151	9,568,163	9,341,352	8,929,297	8,551,594	8,324,997	
29	Return on Average Investment (Note 1)	-	75,521	73,596	71,727	69,586	67,108	64,637	62,044	61,500	60,041	57,393	54,966	53,509	771,628
30	Program Total		\$550.080	\$554 180	\$546 746	\$537 084	\$525 100	\$516.052	\$505 568	\$404 613	\$487 834	\$480 500	\$466 845	\$450 126	\$6 134 636
51	Flogram Total	=	\$339,900	<i>4</i> 554,169	\$540,740	\$557,004	φ <u>υ</u> 20,109	\$310,932	\$303,308	9494,013	φ 4 07,004	φ 4 60,390	φ 4 00,040	φ 4 39,120	\$0,134,030
32	Summary of Demand & Energy														
33	Energy		\$0	\$0	\$0	\$0	\$0	\$O	\$0	\$0	\$0	\$0	\$0	\$0	\$0
34	Demand		571 670	565 822	558 224	550 462	551 311	543 031	531 524	521 878	523 633	519 574	506 158	501 443	6 444 730
35	Total Return & Depreciation	_	\$571,670	\$565,822	\$558,224	\$550,462	\$551,311	\$543,031	\$531,524	\$521,878	\$523,633	\$519,574	\$506,158	\$501,443	\$6,444,730

Note 1> Return on Average Investment for Jan - Jul 2022 per WACC methodology prescribed in Order No. PSC-2020-0165-PAA-EU Docket No. 20200118-EU. Return on Investment for Aug - Dec 2022 per Order No. PSC-2022-0357-FOF-EI Docket No. 20220143-EI.

Docket No. 20230002-EG Docket No. 20230002-EG Duke Energy Florida Witness: Karla Rodriguez Exhibit No.__(KR-1T) Schedule CT-4 Page 1 of 1 May 2, 2023

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 1 of 16

Program Description and Progress

Program Title: Home Energy Check Program

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

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

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

Program Accomplishments - January 2022 - December 2022:

37,725 customers participated in this program.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$4,309,716.

Program Progress Summary:

1,067,836 participants have participated in the Home Energy Check Program since inception. DEF will continue to leverage this program to educate customers about cost-effective, energy-efficiency measures they can implement and incentives available for home-energy improvements for which they may be eligible.

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 2 of 16

Program Description and Progress

Program Title: Residential Incentive Program

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

Program Accomplishments - January 2022 - December 2022:

10,318 measures were implemented through this program resulting in a savings of 2.3 Summer MW, 3.6 Winter MW and 5.6 GWh.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$3,322,214.

Program Progress Summary:

1,108,664 measures have been implemented through this program. This program will continue to be offered to residential customers to provide opportunities for improving the energy efficiency of existing and new homes.

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 3 of 16

Program Description and Progress

Program Title: Neighborhood Energy Saver Program

Program Description: DEF's Neighborhood Energy Saver program is designed to provide energy-saving education and assistance to low-income customers. This program targets neighborhoods that meet certain income-eligibility requirements. DEF typically installs energy-saving measures in approximately 4,500 homes.

Program Accomplishments - January 2022 - December 2022:

DEF installed numerous energy-efficiency measures in 4,771 homes.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$5,288,234.

Program Progress Summary:

Since program inception, DEF has installed energy-efficiency measures in 49,032 homes.

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 4 of 16

Program Description and Progress

Program Title: Low-Income Weatherization Assistance Program

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

Program Accomplishments - January 2022 - December 2022:

1,177 weatherization measures were installed on 134 residential homes.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$252,087.

Program Progress Summary:

28,571 measures have been implemented through this program. DEF participates in local, statewide, and national agency meetings to promote the delivery of this program. Meetings with weatherization and other low-income agencies are conducted throughout DEF's territory to encourage customer participation in energy-efficiency programs. This program was recently modified to align the eligibility with that of agencies who provide weatherization services. This change is intended to expand the network of agencies with which DEF can partner.

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 5 of 16

Program Description and Progress

Program Title: Residential/Commercial Load Management Program

Program Description: The Residential/Commercial Load Management Program is a voluntary demand response program that provides monthly bill credits to customers who allow DEF to reduce peak demand by controlling service to selected electric equipment through various devices and communication options installed on the customer's premises. These interruptions are at DEF's option, during specified time periods, and generally coincide with hours of peak demand. Residential customers must have a minimum, average, monthly usage of 600 kWh to be eligible to participate in this program.

Program Accomplishments - January 2022 - December 2022:

767 residential customers were added to the program. The commercial program has been closed to new participants since 2000.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for the residential/commercial load management program were \$35,712,372.

Program Progress Summary:

There were approximately 433,000 residential participants and 59 commercial participants at yearend 2022.

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 6 of 16

Program Description and Progress

Program Title: Business Energy Check Program

Program Description: The Business Energy Check Program is a commercial energy audit program that provides commercial customers with an analysis of their energy usage and information about energy-saving practices and cost-effective measures that they can implement at their facilities. The Business Energy Check Program serves as the foundation for the Better Business Program.

Program Accomplishments - January 2022 - December 2022:

146 commercial energy audits were completed.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$483,266.

Program Progress Summary:

44,289 non-residential customers have participated in the Business Energy Check Program since inception. This program continues to educate and inform commercial customers about cost-effective, energy-efficiency improvements.

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 7 of 16

Program Description and Progress

Program Title: Better Business Program a/k/a Smart \$aver Business

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

Program Accomplishments - January 2022 - December 2022:

Incentives were provided to customers for 172 commercial energy efficiency measures through this program.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$1,536,688.

Program Progress Summary:

Incentives have been provided to customers for 23,406 commercial energy-efficiency measures through this program since inception.

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 8 of 16

Program Description and Progress

Program Title: Smart \$aver Custom Incentive Program

Program Description: The Smart \$aver Custom Incentive Program (f/k/a Florida Custom Incentive Program) is designed to encourage commercial and industrial customers to make capital investments for energy-efficiency measures which reduce peak demand and provide energy savings. This program provides incentives for individual, custom projects which are cost-effective but not otherwise addressed through DEF's prescriptive incentive programs. Examples of energy-efficient technologies that would be considered under this program include but are not limited to new construction measures and new thermal energy storage systems.

Program Accomplishments - January 2022 - December 2022:

There were 0 customers who participated in this program.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$285,970.

Program Progress Summary:

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

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 9 of 16

Program Description and Progress

Program Title: Standby Generation

Program Description: The Standby Generation Program is a demand response program that allows DEF to reduce system demand by dispatching the customer's standby generator. This is a voluntary program available to commercial and industrial customers who have on-site generation capability.

Program Accomplishments - January 2022 - December 2022:

DEF added three accounts to this program.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$6,210,824.

Program Progress Summary:

There were 185 accounts at year-end 2022, providing 83 of winter MW load control.

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 10 of 16

Program Description and Progress

Program Title: Interruptible Service Program

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

Program Accomplishments - January 2022 - December 2022:

Two accounts were added to the program.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$47,028,753.

Program Progress Summary:

There were 172 accounts participating in this program in 2022, providing 484 of winter MW load control.

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 11 of 16

Program Description and Progress

Program Title: Curtailable Service Program

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

Program Accomplishments - January 2022 - December 2022:

No accounts were added to this program.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$2,602,615.

Program Progress Summary:

There were two customers and four accounts participating in this program in 2022, providing 45 MW of load control.

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 12 of 16

Program Description and Progress

Program Title: Technology Development

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

Program Accomplishments - January 2022 - December 2022:

Several research and development projects were completed, continued and/or launched in 2022.

- Launched a project to evaluate the demand response capability of the Ford Lightning Electric Pickup Truck in a Vehicle-to-Grid (V2G) configuration. The pilot will consist of lab testing of the vehicle, electric vehicle charger and home integration system. We will also test the system in 4 employee volunteer DEF customer homes. This project will focus on the capabilities of the Ford Lightning EV to provide V2G demand response, Vehicle-to-Home backup power and EV charging control. These systems could be a valuable future potential resource as a component part of DEF's DR Portfolio.
- Continued a project with the University of Central Florida (UCF) to document the value of long-duration customer-side energy storage systems. This project is using the technology at UCF's Microgrid Control lab to directly test a long-duration energy storage system. Use cases to be investigated include study of battery performance during charging and discharging, documenting the effects of cycling on battery performance (battery degradation, efficiency, etc.), optimal operation of a battery energy storage system in a distribution system with high penetration of solar energy, control of behind-the-meter distributed energy resources to provide services including, peak capacity management, demand response (consuming or generating), frequency regulation, ramping capability and voltage management.
- Continued a pilot to develop software, firmware, and applications for a Smart Home Gateway to evaluate the potential for a future home energy management program and its ability to enhance the Company's future energy efficiency and DR programs. The Smart Home Gateway currently includes processing and communications capabilities to perform on-site operations including receiving energy data from the customer's AMI meter, communications using four radios and on-site processing. Capabilities are under development and testing that include enabling appliance demand response using CTA-2045 (EcoPort) local control and enabling local control of Energy Management Circuit Breakers (EMCBs) for monitoring and demand response. These technologies will allow automatic control of devices according to the customer's preference, and enabling open-source, utility-demand response. The Smart Home

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 13 of 16

Program Description and Progress

Gateway can also potentially be used engage customer awareness of how energy is being used in the home.

- Continued a project with the University of South Florida (USF) to leverage customer-sited solar PV and energy storage at the USF 5th Avenue Garage Microgrid. The system provides load smoothing, islanding, and demand response. A publicly available dashboard that shows live data, project specific facts and the capability of downloading data for further study is available for the site at https://dashboards.epri.com/duke-usfsp-parking. Results of this research may be used for design of a potential cost-effective, DR program. USF continued its research on the microgrid operation.
- Continued the Electric Power Research Institute (EPRI) Solar DPV project for data collection to document customer solar resources with a focus on larger PV arrays with and without energy storage. This project also provides the data stream for the dashboard mentioned above.
- Continued participation in an EPRI project to study the potential of using customer demand response to compensate for variable loads and intermittent renewable generation resources.
- Completed the EPRI Energy Management Circuit Breaker (EMCB) Project. This project explored the potential for developing a program for customer circuit breakers that include communication, metering, and remote operation for potential applications including EE, DR, and integration of distributed energy resources. The EMCB hardware and software in the field pilot program collected operational data from appliances in 9 customer homes. The hardware from this project is being utilized in other ongoing Technology Development pilots including the V2G Project and the Smart Home Gateway Project. The commercial version of the EMCB-EV (a self-contained electric vehicle charger) is still being studied for potential opportunities for controlled charging for EVs and DR capabilities. This data will be used to document the operation of these breakers and assess the cost-effectiveness for potential EE and DR programs.
- Continued a project that will provide knowledge in methods to utilize customer Wi-Fi infrastructure to develop a dedicated, durable, and secure utility communication channel to connected devices. The project will also provide knowledge on the effectiveness of Wi-Fi-signal-strength-improvement technology. This technology could lead to lower costs and improved cost-effectiveness for existing and future DR and EE programs.
- Continued a project for a study to evaluate the demand response capability of internetconnected residential batteries. Residential batteries potentially offer the ability to provide power reduction for demand response while eliminating any discomfort to the customer (as compared to residential appliance demand response). Certain battery manufacturers have developed technologies that allow for the collection of capacity and charge data, communication protocols for external aggregator software providers, and the ability to dispatch stored energy to serve the needs of the customer or the grid. This project will focus on the

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 14 of 16

Program Description and Progress

capabilities of a particular aggregator to collect data from two battery manufacturers, the feasibility of utilizing aggregation technology for dispatching demand response event commands, and the net impact of these events on shaping demand. Such an aggregation system enables existing units that are already installed by residential customers in DEF territory to be used in this study. The results of this study could be used to develop a demand response program.

• Partnered with EPRI and other research organizations to evaluate EE, energy storage, and alternative energy/innovative technologies.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$261,504.

Program Progress Summary:

DEF continued to focus on researching and testing new technologies which have the potential to provide new programs and create new customer offerings.

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 15 of 16

Program Description and Progress

Program Title: Qualifying Facility (QF)

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

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

Program Accomplishments - January 2022 - December 2022:

Avoided cost and generator interconnection service activity with renewable and distributed resource (DR) developers continued in 2022. DEF provided QF, renewable, or DR-related information to many interested parties who are exploring distributed generation options in Florida. Numerous calls and meetings were held with parties interested in the advancement of their DR project. Meetings were also held with current and existing QF under contract to discuss restructuring and extending existing purchased power agreements. DEF continued evolving its analytics, forecasts and business processes that are required to support good faith QF-purchased power negotiations and interconnection service.

DEF successfully administered all existing QF-purchased power contracts that are in-service for contractual compliance. As of December 31, 2022, DEF had over 5,200 MW of solar projects in its various grid interconnection queues representing over 70 potential projects. The QF-purchased power contracts produced more than 2.4 million MWh for DEF customers during 2022.

Program Fiscal Expenditures - January 2022 - December 2022:

Expenses for this program were \$894,795.

Program Progress Summary:

As of December 31, 2022, DEF administered approximately 411 MW of firm capacity contracts from in-service QF, and 5 non-firm as-available energy QF contracts. As of December 31, 2022, DEF administered both pre-applications for state jurisdictional interconnection, and applications for FERC generator interconnection applications. The 2022 year ended with over 4,100 MW of

Docket No. 20230002-EG Duke Energy Florida, LLC Witness: Karla Rodriguez Exhibit No.: (KR-1T) May 2, 2023 Schedule CT-5 Page 16 of 16

Program Description and Progress

potential QF generators in the various DEF interconnection queues.

Duke Energy Florida Cost Recovery Clause January 2022 - December 2022 Actual Capital Structure and Cost Rates . Before ROE Trigger

		(1)	(2)	(3)	(4)	(5)	(6)			
		Jurisdictional					Monthly			
		Rate Base				Revenue	Revenue			
		Adjusted	Cap	Cost	Weighted	Requirement	Requirement			
	F	Retail (\$000s)	Ratio	Rate	Cost	Rate	Rate			
1 Common Equity	\$	7,346,556	44.20%	9.85%	4.35%	5.83%	0.4858%			
2 Long Term Debt		6,187,237	37.23%	4.25%	1.58%	1.58%	0.1317%			
3 Short Term Debt		299,827	1.80%	2.22%	0.04%	0.04%	0.0033%			
4 Cust Dep Active		160,050	0.96%	1.40%	0.01%	0.01%	0.0008%			
5 Cust Dep Inactive		1,516	0.01%			0.00%	0.0000%			
6 Invest Tax Cr		199,171	1.20%	7.36%	0.09%	0.11%	0.0092%			
7 Deferred Inc Tax		2,426,397	14.60%			0.00%	0.0000%			
8	Total \$	16,620,755	100.00%		6.07%	7.57%	0.6308%			
					Quet					
	17				Cost		D. //			
•	<u>IIC</u>	<u>Split between D</u>	bebt and Equity**	Ratio	Rate	Ratio	Ratio	Weighted ITC	Weighted ITC	After Gross-up
9	C	ommon Equity	7,346,556	54%	9.9%	5.35%	73.3%	0.09%	0.0660%	0.088%
10	Pr	referred Equity	-	0%	4.050/	4 0 40/	00 70/	0.09%	0.0000%	0.000%
11		ong Term Debt	6,187,237	46%	4.25%	1.94%	26.7%	0.09%	0.0240%	0.024%
12		Cost Rate	13,533,793	100%	-	7.29%			0.0900%	0.112%
						Г	Monthly Pato			
	Dr	alidawa af Dava	nuo Doguiromont I	Data of Datum ha	tween Debt and I	- outitu				
10		tal Cawity Care	enue Requirement		tween Dept and i	<u>=quity.</u>	Ior Clauses			
13	10		onent (Lines 1 and	9)		5.918%	0.00493			
14	10	tal Debt Compon	ient (Lines 2, 3, 4	, and 11)		1.654%	0.00138			
15	То	tal Revenue Red	quirement Rate of	Return		7.572%	<u>0.00631</u>			

Notes:

Statutory Tax Rate:

Column:

(1)	Per Order No. PSC-2020-0165-PAA-EU, issued May 20, 2020, approving amended joint motion modifying WACC methodology
(2)	Column (1) / Total Column (1)

(2) (3) Column (1) / Total Column (1) Per Order No. PSC-2020-0165-PAA-EU, issued May 20, 2020, approving amended joint motion modifying WACC methodology Line 6 and Line 12, the cost rate of ITC's is determined under Treasury Regulation section 1.46-6(b)(3)(ii).

Column (2) x Column (3) (4)

(5) * For equity components: Column (4) / (1-effective income tax rate/100)

For debt components: Column (4)

25.345%

** Line 6 is the pre-tax ITC components from Lines 9 and 11

(6) Column (5) / 12

Duke Energy Florida Cost Recovery Clause January 2022 - December 2022 Actual Capital Structure and Cost Rates ROE Trigger Effective August 1, 2022

	(1)	(2)	(3)	(4)	(5)	(6)					
	Jurisdictional					Monthly					
	Rate Base				Revenue	Revenue					
	Adjusted	Cap	Cost	Weighted	Requirement	Requirement					
	Retail (\$000s)	Ratio	Rate	Cost	Rate	Rate					
1 Common Equity	\$ 7,346,556	44.20%	10.10%	4.46%	5.97%	0.4975%					
2 Long Term Debt	6,187,237	37.23%	4.25%	1.58%	1.58%	0.1317%					
3 Short Term Debt	299,827	1.80%	2.22%	0.04%	0.04%	0.0033%					
4 Cust Dep Active	160,050	0.96%	1.40%	0.01%	0.01%	0.0008%					
5 Cust Dep Inactive	1,516	0.01%			0.00%	0.0000%					
6 Invest Tax Cr	199,171	1.20%	7.36%	0.09%	0.11%	0.0092%					
7 Deferred Inc Tax	2,426,397	14.60%			0.00%	0.0000%					
8 <u> </u>	otal \$ 16,620,755	100.00%		6.18%	7.71%	0.6425%					
				Cost							
	ITC split between Debt	and Equity**:	Ratio	Rate	Ratio	Ratio	Weighted ITC	Weighted ITC	After Gross-up		
9	Common Equity	7,346,556	54%	10.1%	5.48%	73.8%	0.09%	0.0664%	0.089%		
10	Preferred Equity	-	0%				0.09%	0.0000%	0.000%		
11	Long Term Debt	6,187,237	46%	4.25%	1.94%	26.2%	0.09%	0.0236%	0.024%		
12	ITC Cost Rate	13,533,793	100%		7.43%	-		0.0900%	0.113%		
		Monthly Rate									
	Breakdown of Revenue	Requirement Rate of Retu	<u>urn between De</u>	<u>ebt and Equity:</u>		for Clauses					
13	Total Equity Componer	it (Lines 1 and 9)			6.059%	0.00505					
14	Total Debt Component	(Lines 2, 3 , 4 , and 11)			1.654%	<u>0.00138</u>					
15	Total Revenue Requir	ement Rate of Return			7.713%	0.00643					
Notes:											
Statutory Tax Rate:	25.345%	/ 0									
Column:											
(1)	(1) Per Order No. PSC-2020-0165-PAA-EU, issued May 20, 2020, approving amended joint motion modifying WACC methodology										
(2)	2) Column (1) / Total Column (1)										
(3)	3) Per Order No. PSC-2020-0165-PAA-EU, issued May 20, 2020, approving amended joint motion modifying WACC methodology										
	Line 6 and Line 12, the	cost rate of ITC's is deterr	nined under Tr	easury Regulation	section 1.46-6(b)(3)(ii)).					
(4)	Column (2) x Column (3	3)									
(5)	For equity components: Column (4) / (1-effective income tax rate/100)										

For equity components: Column (4) / (1-effective income ta For debt components: Column (4) Line 6 is the pre-tax ITC components from Lines 9 and 11 Column (5) / 12 (5) * **

(6)