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May 1, 2019

VIA: ELECTRONIC FILING

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

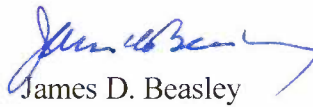
Re: Energy Conservation Cost Recovery Clause
FPSC Docket No. 20190002-EG

Dear Mr. Teitzman:

Attached for filing in the above docket on behalf of Tampa Electric Company is the Testimony of Mark R. Roche and Exhibit MRR-1, entitled Schedules Supporting Conservation Cost Recovery Factor, Actual, for the period January 2018 – December 2018.

Thank you for your assistance in connection with this matter.

Sincerely,


James D. Beasley

JDB/pp
Attachment

cc: All Parties of Record (w/attachment)



**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

DOCKET NO. 20190002-EG

IN RE: ENERGY CONSERVATION COST RECOVERY CLAUSE

TESTIMONY AND EXHIBIT

OF

MARK R. ROCHE

FILED: May 1, 2019

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **PREPARED DIRECT TESTIMONY**

3 **OF**

4 **MARK R. ROCHE**

5
6 **Q.** Please state your name, address, occupation and employer.

7
8 **A.** My name is Mark R. Roche. My business address is 702
9 North Franklin Street, Tampa, Florida 33602. I am
10 employed by Tampa Electric Company ("Tampa Electric" or
11 "the company") as Manager, Regulatory Rates in the
12 Regulatory Affairs Department.

13
14 **Q.** Please provide a brief outline of your educational
15 background and business experience.

16
17 **A.** I graduated from Thomas Edison State College in 1994 with
18 a Bachelor of Science degree in Nuclear Engineering
19 Technology and from Colorado State University in 2009
20 with a Master's degree in Business Administration. My
21 work experience includes twelve years with the US Navy in
22 nuclear operations as well as twenty-one years of
23 electric utility experience. My utility work has
24 included various positions in Marketing and Sales,
25 Customer Service, Distributed Resources, Load Management,

1 Power Quality, Distribution Control Center Operations,
2 Meter Department, Meter Field Operations, Service
3 Delivery, Revenue Assurance, Commercial and Industrial
4 Energy Management Services, and Demand Side Management
5 ("DSM") Planning and Forecasting. In my current
6 position, I am responsible for Tampa Electric's Energy
7 Conservation Cost Recovery ("ECCR") Clause and Storm
8 Hardening, and Peoples Gas System's Natural Gas
9 Conservation Cost Recovery ("NGCCR") Clause.

10
11 **Q.** What is the purpose of your testimony in this proceeding?

12
13 **A.** The purpose of my testimony is to present and support for
14 Commission review and approval the company's actual DSM
15 programs related true-up costs incurred during the
16 January through December 2018 period.

17
18 **Q.** Did you prepare any exhibits in support of your
19 testimony?

20
21 **A.** Yes. Exhibit No. MRR-1, entitled "Tampa Electric
22 Company, Schedules Supporting Conservation Cost Recovery
23 Factor, Actual, January 2018-December 2018" was prepared
24 under my direction and supervision. This Exhibit
25 includes Schedules CT-1 through CT-6 which support the

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company's actual and prudent DSM program related true-up costs incurred during the January through December 2018 period.

Q. What were Tampa Electric's actual January through December 2018 conservation costs?

A. For the period, January through December 2018, Tampa Electric incurred actual net conservation costs of \$44,558,716.

Q. What is the final end of period true-up amount for the conservation clause for January through December 2018?

A. The final conservation clause end of period true-up for January through December 2018 is an under-recovery, including interest, of \$2,738,782. This calculation is detailed on Schedule CT-1, page 1 of 1.

Q. Please summarize how Tampa Electric's actual program costs for January through December 2018 period compare to the actual/estimated costs presented in Docket No. 20180002-EG?

1 **A.** For the period, January through December 2018, Tampa
2 Electric had a variance of \$2,802,026 or 5.92 percent
3 less than the estimated amount. The estimated total
4 program costs were projected to be \$47,360,742 which was
5 the amount approved in Order No. PSC 2018-0562-FOF-EG,
6 issued November 28, 2018 as compared to the incurred
7 actual net conservation costs of \$44,558,716.

8
9 **Q.** Please summarize the reasons why the actual expenses were
10 less than projected expenses by \$2,802,026?

11
12 **A.** The variance was a result of the following actual
13 expenses being less than estimated in the following
14 residential programs: Walk-Through Energy Audits;
15 Computer Assisted Audits; Ceiling Insulation;
16 Electronically Commutated Motors; Energy Education,
17 Awareness and Agency Outreach; ENERGY STAR for Multi-
18 Family Residences; ENERGY STAR for New Homes;
19 Neighborhood Weatherization; Wall Insulation; and Prime
20 Time. Additionally, actual expenses were less than
21 estimated in the following commercial/industrial
22 programs: Energy Audits; Comprehensive Energy Audits;
23 Ceiling Insulation; Chiller; Cogeneration; Conservation
24 Value; Cooling; Duct Repair; Electronically Commutated
25 Motors; LED Street and Outdoor Lighting Conversion

1 Program; Lighting Conditioned Space; Lighting Non-
2 Conditioned Space; Commercial Load Management;
3 Refrigeration Anti-Condensate Control; Standby Generator;
4 Thermal Energy Storage; Water Heating; Conservation
5 Research and Development; and Renewable Energy Program.
6 Each DSM program's detailed variance and common variance
7 contribution is shown on Schedule CT-2, Page 3 of 4.

8
9 **Q.** Are all costs listed on Schedule CT-2 directly related to
10 the Commission's approved DSM programs?

11
12 **A.** Yes.

13
14 **Q.** When did Tampa Electric transition to the Commission
15 approved new 2015-2024 Ten-Year DSM Plan?

16
17 **A.** Tampa Electric transitioned to the Commission approved
18 new 2015-2024 Ten-Year DSM Plan on November 3, 2015 for
19 all DSM programs except for the Renewable Energy Systems
20 Initiative which was retired on December 31, 2015.

21
22 **Q.** Should Tampa Electric's cost incurred during the January
23 through December 2018 period for energy conservation be
24 approved by the Commission?

1 **A.** Yes, the costs incurred were prudent and directly related
2 to the Commission's approved DSM programs and should be
3 approved.

4
5 **Q.** Does that conclude your testimony?

6
7 **A.** Yes, it does.

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TAMPA ELECTRIC COMPANY
SCHEDULES SUPPORTING CONSERVATION
COST RECOVERY FACTOR
ACTUAL
JANUARY 2018 - DECEMBER 2018

CONSERVATION COST RECOVERY

INDEX

SCHEDULE	TITLE	PAGE
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TAMPA ELECTRIC COMPANY
Energy Conservation
Adjusted Net True-up
For Months January 2018 through December 2018

End of Period True-up

Principal	(2,704,027)	
Interest	(34,755)	
Total		(2,738,782)

Less: Projected True-up

(Last Projected Conservation Hearing)

Principal	(5,549,426)	
Interest	(53,815)	
Total		(5,603,241)

Adjusted Net True-up 2,864,459

TAMPA ELECTRIC COMPANY
 Analysis of Energy Conservation Program Costs
 Actual vs. Projected
 For Months January 2018 through December 2018

Description	Actual	Projected	Difference
1 Capital Investment	\$1,334,399	\$1,345,013	(\$10,614)
2 Payroll	\$3,785,930	\$4,185,554	(\$399,624)
3 Materials and Supplies	\$513,218	\$499,957	\$13,261
4 Outside Services	\$2,803,599	\$2,802,225	\$1,374
5 Advertising	\$1,057,136	\$905,933	\$151,203
6 Incentives	\$30,808,560	\$31,242,186	(\$433,626)
7 Vehicles	\$138,610	\$224,186	(\$85,576)
8 Other	\$4,265,032	\$6,694,542	(\$2,429,510)
9 Subtotal	\$44,706,483	\$47,899,596	(\$3,193,112)
Less: LED Street and Outdoor 10 Conversion Program	(\$125,991)	(\$256,588)	\$130,597
11 Less: Renewable Revenues	(\$136,375)	(\$154,949)	\$18,574
12 Total	\$44,444,118	\$47,488,059	(\$3,043,941)
13 Less: Renewable Program	\$114,598	(\$127,317)	\$241,915
14 Total Program Costs	\$44,558,716	\$47,360,742	(\$2,802,026)
15 Beginning of Period True-up Overrecovery	\$649,400	\$649,400	\$0
16 Amounts included in Base Rates	\$0	\$0	\$0
17 Conservation Adjustment Revenues	(\$42,504,089)	(\$42,460,716)	(\$43,373)
18 True-up Before Interest	(\$2,704,027)	(\$5,549,426)	\$2,845,399
19 Interest Provision	(\$34,755)	(\$53,815)	\$19,060
20 End of Period True-up	(\$2,738,782)	(\$5,603,241)	\$2,864,459

TAMPA ELECTRIC COMPANY
 Actual Conservation Program Costs per Program
 For Months January 2018 through December 2018

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
12000359 Residential Walk-Through Energy Audit	0	1,231,710	3,120	10,910	549,931	0	68,241	24,308	0	1,888,220
12000353-12000355 Residential Customer Assisted Audit	0	138,113	20,223	710,156	0	0	10	717	0	869,219
12000357, 12000369 Residential Computer Assisted Audit	0	1,598	0	0	0	0	0	50	0	1,648
12000381 Residential Ceiling Insulation	0	71,128	197	0	0	142,733	1,068	2,724	0	217,850
12000391 Residential Duct Repair	0	50,458	197	0	0	301,399	1,690	2,413	0	356,157
12000419 Residential Electronically Commutated Motors	0	0	0	0	0	0	0	0	0	0
12000375 Energy Education, Awareness and Agency Outre	5,929	31,638	2,911	71,848	0	0	829	10,326	0	123,481
12004152 Energy Star Multi-Family	0	74	0	0	782	0	35	273	0	1,164
12000431 Energy Star for New Homes	0	29,885	0	0	2,388	699,550	304	2,272	0	734,399
12000349 Residential Heating and Cooling	0	84,962	159	0	0	455,085	232	4,417	0	544,855
12000425 Neighborhood Weatherization	0	171,089	344,850	902,875	0	2,808,170	8,862	2,055	0	4,237,901
12000433 Energy Planner	1,322,880	868,469	127,741	544,502	501,970	0	51,103	130,284	0	3,546,949
12000365 Residential Wall Insulation	0	110	0	0	0	202	0	0	0	312
12000367 Residential Window Replacement	0	100,285	159	0	0	700,526	607	1,896	0	803,473
12000421 Residential HVAC Re-Commissioning	0	0	0	0	0	0	0	0	0	0
12000373 Residential Window Film	0	0	0	0	0	0	0	0	0	0
12000351 Prime Time	0	7,949	0	9,723	0	0	0	0	0	17,672
12000363 Commercial/Industrial Audit (Free)	0	266,097	1,557	0	0	0	2,221	13,996	0	283,871
12000361 Comprehensive Commercial/Industrial Audit (Paid)	0	688	0	0	0	0	37	0	0	725
12000397 Commercial Ceiling Insulation	0	5,020	0	0	0	3,792	64	0	0	8,876
12000411 Commercial Chiller	0	241	0	0	0	1,246	0	0	0	1,487
12000371 Cogeneration	0	56,694	0	0	0	0	131	0	0	56,825
12000389 Conservation Value	0	0	0	0	0	0	0	0	0	0
12000443 Cool Roof	0	24,496	0	0	0	176,104	100	4	0	200,704
12000429 Commercial Cooling	0	677	0	0	0	4,576	17	0	0	5,270
12000409 Demand Response	0	16,653	0	0	0	3,914,115	14	1,097	0	3,931,879
12000377 Commercial Duct Repair	0	200	0	0	0	900	13	0	0	1,113
12000441 Commercial ECM	0	0	0	0	0	0	0	0	0	0
12000379 Industrial Load Management (GSLM 2&3)	5,590	19,446	0	0	0	17,561,103	200	0	0	17,586,339
12004386 LED Street and Outdoor Conversion Program	0	0	0	0	0	0	0	3,921,490	(125,991)	3,795,499
12000385 Lighting Conditioned Space	0	81,024	0	0	0	503,144	1,221	2,785	0	588,174
12003201 Lighting Non-Conditioned Space	0	49,229	0	0	0	128,262	219	1,707	0	179,417
12000413 Lighting Occupancy Sensors	0	700	0	0	0	23,760	25	0	0	24,485
12000383 CILM (GSLM 1)	0	34	0	0	0	6,993	0	0	0	7,027
12000415 Refrigeration Anti-Condensate Control	0	0	0	54	0	0	0	227	0	281
12000387 Standby Generator	0	92,390	11,939	311,328	0	3,320,400	67	2,028	0	3,738,152
12003202 Thermal Energy Storage	0	0	0	0	0	56,500	0	0	0	56,500
12000399 Commercial Wall Insulation	0	0	0	0	0	0	0	0	0	0
12000417 Commercial Water Heating	0	0	0	98	0	0	0	695	0	793
12000427 Conservation Research and Development	0	724	0	0	0	0	27	0	0	751
12000393 Renewable Energy Program	0	12,945	169	5,705	2,065	0	0	893	(136,375)	(114,598)
12000403-12000407, 12000423 Renewable Energy Systems Initiative	0	0	0	0	0	0	0	0	0	0
12000445 Commercial ERV	0	0	0	0	0	0	0	0	0	0
12000437 Commercial Exit Signs	0	0	0	0	0	0	0	0	0	0
12000439 Commercial HVAC Re-commissioning	0	0	0	0	0	0	0	0	0	0
12000395 Commercial Window Film	0	0	0	0	0	0	0	0	0	0
12000347 Common Expenses	0	371,205	(4)	236,400	0	0	1,273	138,376	0	747,250
Total All Programs	1,334,399	3,785,930	513,218	2,803,599	1,057,136	30,808,560	138,610	4,265,033	(262,366)	44,444,119
Less Renewable Energy Program	0	12,945	169	5,705	2,065	0	0	893	(136,375)	(114,598)
Total Less Renewable Energy Program	1,334,399	3,772,985	513,049	2,797,894	1,055,071	30,808,560	138,610	4,264,140	(125,991)	44,558,717

TAMPA ELECTRIC COMPANY
 Conservation Program Costs per Program
 Variance - Actual vs. Projected
 For Months January 2018 through December 2018

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
12000359 Residential Walk-Through Energy Audit	0	(129,607)	(1,227)	10,520	57,837	0	(29,750)	(6,057)	0	(98,284)
12000353-12000355 Residential Customer Assisted Audit	0	42,727	2,528	73,039	0	0	10	504	0	118,808
12000357, 12000369 Residential Computer Assisted Audit	0	(1,280)	0	0	0	0	0	155	0	(1,125)
12000381 Residential Ceiling Insulation	0	(14,431)	(200)	0	0	(20,086)	(90)	(171)	0	(34,978)
12000391 Residential Duct Repair	0	(11,512)	(200)	0	0	24,540	308	(401)	0	12,735
12000419 Residential Electronically Commutated Motors	0	(7)	0	(105)	0	(115)	0	0	0	(227)
12000375 Energy Education, Awareness and Agency Outreac	(4,860)	(23,449)	(737)	(9,776)	0	0	(306)	(3,871)	0	(42,999)
12004152 Energy Star Multi Family	0	(774)	0	0	0	(97,500)	0	0	0	(98,274)
12000431 Energy Star for New Homes	0	(2,128)	0	0	1,606	(164,050)	63	(1,331)	0	(165,840)
12000349 Residential Heating and Cooling	0	185	159	0	0	15,390	37	276	0	16,047
12000425 Neighborhood Weatherization	0	(76,607)	44,964	101,375	0	(680,135)	3,663	849	0	(605,891)
12000433 Energy Planner	(5,429)	(60,426)	7,834	(6,117)	92,837	0	(41)	(16,577)	0	12,081
12000365 Residential Wall Insulation	0	(14)	0	0	0	(128)	0	0	0	(142)
12000367 Residential Window Replacement	0	22,388	159	0	0	78,077	387	55	0	101,066
12000351 Prime Time	0	(3,441)	0	(3,666)	0	0	0	(450)	0	(7,557)
12000363 Commercial/Industrial Audit (Free)	0	(65,327)	(213)	0	(2,600)	0	(3,982)	7,523	0	(64,599)
12000361 Comprehensive Commercial/Industrial Audit (Paid)	0	(1,368)	0	(1,000)	0	0	(80)	200	0	(2,248)
12000397 Commercial Ceiling Insulation	0	742	0	0	0	(1,665)	(91)	0	0	(1,014)
12000411 Commercial Chiller	0	(615)	0	0	0	(9,254)	(100)	0	0	(9,969)
12000371 Cogeneration	0	(8,171)	0	0	0	0	102	0	0	(8,069)
12000389 Conservation Value	0	0	(2,670)	0	(542)	0	(50,000)	(25)	0	(53,237)
12000443 Cool Roof	0	1,932	0	0	0	6,691	(249)	0	0	8,374
12000429 Commercial Cooling	0	(452)	0	0	0	4,576	(4,995)	(75)	0	(946)
12000409 Demand Response	0	(6,283)	0	0	0	329,999	(300)	(2,684)	0	320,732
12000377 Commercial Duct Repair	0	(807)	0	0	0	(1,350)	11	0	0	(2,146)
12000441 Commercial ECM	0	(1,770)	0	0	0	(4,200)	(60)	0	0	(6,030)
12000379 Industrial Load Management (GSLM 2&3)	0	(11,292)	0	0	0	503,074	0	0	0	491,782
12004386 LED Street and Outdoor Conversion Program	0	0	0	0	0	0	0	(2,440,815)	130,597	(2,310,218)
12000385 Lighting Conditioned Space	0	(14,674)	0	0	0	(208,924)	254	569	0	(222,775)
12003201 Lighting Non-Conditioned Space	0	(5,087)	0	0	0	(27,754)	60	422	0	(32,359)
12000413 Lighting Occupancy Sensors	0	(447)	0	0	0	6,340	(125)	0	0	5,768
12000383 CILM (GSLM 1)	(325)	(21,305)	0	(39,050)	0	0	0	0	0	(60,680)
12000415 Refrigeration Anti-Condensate Control	0	(192)	0	0	0	(1,500)	(25)	22	0	(1,695)
12000387 Standby Generator	0	2,499	(37,338)	1,464	0	(80,152)	(161)	(1,131)	0	(114,819)
12003202 Thermal Energy Storage	0	(3,530)	0	0	0	(103,500)	(200)	0	0	(107,230)
12000399 Commercial Wall Insulation	0	0	0	0	0	0	0	0	0	0
12000417 Commercial Water Heating	0	(171)	0	0	0	(2,000)	(25)	22	0	(2,174)
12000427 Conservation Research and Development	0	(369)	0	0	0	0	0	0	0	(369)
12000393 Renewable Energy Program	0	(723)	169	(262,000)	2,065	0	0	0	18,574	(241,915)
12000347 Common Expenses	0	(3,838)	33	136,690	0	0	109	33,482	0	166,476
Total All Programs	(10,614)	(399,624)	13,261	1,374	151,203	(433,626)	(85,576)	(2,429,509)	149,171	(3,043,940)
Less Renewable Energy Program	0	(723)	169	(262,000)	2,065	0	0	0	18,574	(241,915)
Total Less Renewable Energy Program	(10,614)	(398,901)	13,092	263,374	149,138	(433,626)	(85,576)	(2,429,509)	130,597	(2,802,025)

SCHEDULE CT-2
 Page 4 of 4

TAMPA ELECTRIC COMPANY
 Description for Accounts
 For Months January 2018 through December 2018

Internal Order	Program Name
12000359	Residential Walk-Through Energy Audit
12000355	Residential Customer Assisted Audit
12000357	Residential Computer Assisted Audit
12000369	Residential Computer Assisted Audit
12000363	Commercial/Industrial Audit (Free)
12000361	Comprehensive Commercial/Industrial Audit (Paid)
12000381	Residential Ceiling Insulation
12000391	Residential Duct Repair
12000419	Residential Electronically Commutated Motors
12000375	Energy Education, Awareness and Agency Outreach
12000431	Energy Star for New Homes
12000349	Residential Heating and Cooling
12000425	Neighborhood Weatherization
12000433	Energy Planner
12000365	Residential Wall Insulation
12000367	Residential Window Replacement
12000421	Residential HVAC Re-Commissioning
12000373	Residential Window Film
12000351	Prime Time
12000397	Commercial Ceiling Insulation
12000411	Commercial Chiller
12000371	Cogeneration
12000389	Conservation Value
12000443	Cool Roof
12000429	Commercial Cooling
12000409	Demand Response
12000377	Commercial Duct Repair
12000441	Commercial ECM
12000379	Industrial Load Management (GSLM 2&3)
12004386	LED Street and Outdoor Conversion Program
12000385	Lighting Conditioned Space
12003201	Lighting Non-Conditioned Space
12000413	Lighting Occupancy Sensors
12000383	CILM (GSLM 1)
12000415	Refrigeration Anti-Condensate Control
12000387	Standby Generator
12003202	Thermal Energy Storage
12000399	Commercial Wall Insulation
12000417	Commercial Water Heating
12000427	Conservation Research and Development (R&D)
12000393	Renewable Energy Program
12000405	Renewable Energy Systems Initiative
12000405	Renewable Energy Systems Initiative
12000403	Renewable Energy Systems Initiative
12000407	Renewable Energy Systems Initiative
12000423	Renewable Energy Systems Initiative
12000445	Commercial ERV
12000437	Commercial Exit Signs
12000439	Commercial HVAC Re-Commissioning
12000401	Commercial Motors
12000435	Commercial Roof Insulation
12000395	Commercial Window Film
12000347	Common Expenses

TAMPA ELECTRIC COMPANY
 Energy Conservation Adjustment
 Summary of Expenses by Program by Month
 For Months January 2018 through December 2018

Program Name	January	February	March	April	May	June	July	August	September	October	November	December	Total
12000359 Residential Walk-Through Energy Audit	83,719	115,836	213,237	105,946	171,940	170,180	161,732	183,193	201,813	203,675	111,666	165,284	1,888,220
12000353-12000355 Residential Customer Assisted Audit	5,948	2,520	20,291	88,298	79,503	59,969	119,244	483,962	9,270	51	109	55	869,219
12000357, 12000369 Residential Computer Assisted Audit	0	0	35	27	783	390	0	0	44	0	321	47	1,648
12000381 Residential Ceiling Insulation	13,450	14,726	25,452	24,722	18,380	20,246	22,222	20,125	17,229	17,073	16,139	8,085	217,850
12000391 Residential Duct Repair	20,395	28,931	47,359	26,893	44,461	32,988	29,705	28,021	33,721	19,693	18,735	25,255	356,157
12000419 Residential Electronically Commutated Motors	0	0	0	0	0	0	0	0	0	0	0	0	0
12000375 Energy Education, Awareness and Agency Outreach	4,125	3,040	7,470	17,583	9,688	66,443	4,408	5,637	4,784	3,669	(6,521)	3,154	123,481
12004152 Energy Star Multi-Family	0	1,563	(473)	0	0	0	0	74	0	0	0	0	1,164
12000431 Energy Star for New Homes	130,107	63,669	74,164	61,930	62,568	55,330	29,714	66,065	34,688	52,764	63,459	39,942	734,399
12000349 Residential Heating and Cooling	40,334	34,957	48,954	36,989	54,273	45,878	64,693	60,777	41,469	51,135	35,897	29,497	544,855
12000425 Neighborhood Weatherization	246,563	378,841	526,086	271,269	296,405	245,817	310,960	295,551	439,960	485,662	441,780	299,007	4,237,901
12000433 Energy Planner	325,412	346,225	340,099	238,957	292,975	237,723	320,176	291,910	304,666	308,572	224,750	315,482	3,546,948
12000365 Residential Wall Insulation	0	0	0	0	0	0	0	202	74	37	0	0	312
12000367 Residential Window Replacement	69,237	173,516	(52,533)	63,923	64,467	60,310	84,049	81,364	80,587	71,210	62,090	45,254	803,473
12000351 Prime Time	774	3,177	512	2,533	705	320	2,498	1,548	1,033	3,934	338	300	17,672
12000363 Commercial/Industrial Audit (Free)	17,143	24,325	30,035	18,855	20,421	20,065	20,253	32,542	23,194	28,935	26,678	21,426	283,871
12000361 Comprehensive Commercial/Industrial Audit (Paid)	0	0	688	37	0	0	0	0	0	0	0	0	725
12000397 Commercial Ceiling Insulation	967	316	1,753	1,537	1,553	1,420	245	387	509	0	0	189	8,876
12000411 Commercial Chiller	0	241	0	0	0	0	1,246	0	0	0	0	0	1,487
12000371 Cogeneration	4,558	6,036	6,917	5,146	4,566	4,526	4,124	6,034	3,413	4,177	3,965	3,362	56,825
12000389 Conservation Value	0	0	0	0	0	0	0	0	0	0	0	0	0
12000443 Cool Roof	12,856	1,344	62,359	1,514	3,484	20,193	76,144	2,956	4,118	1,635	2,047	12,055	200,704
12000429 Commercial Cooling	4,718	349	0	0	0	0	80	122	0	0	0	0	5,270
12000409 Demand Response	308,956	4,857	2,044	970,066	330,608	577	331,782	660,850	565	660,492	330,587	330,496	3,931,879
12000377 Commercial Duct Repair	542	0	0	0	300	2	0	147	0	(147)	259	11	1,113
12000441 Commercial ECM	0	0	0	0	0	0	0	0	0	0	0	0	0
12000379 Industrial Load Management (GSLM 2&3)	1,389,078	1,426,524	1,362,392	1,410,209	1,489,431	1,588,273	1,547,367	1,598,582	1,610,675	1,410,618	1,407,811	1,345,379	17,586,339
12004386 LED Street and Outdoor Conversion Program	0	0	78,853	59,496	43,848	1,478,606	516,062	458,200	465,947	22,058	462	671,967	3,795,499
12000385 Lighting Conditioned Space	10,050	8,926	38,688	57,975	36,949	99,888	58,963	56,222	60,147	39,761	28,005	92,600	588,174
12003201 Lighting Non-Conditioned Space	17,030	12,839	16,552	32,931	9,564	33,126	17,434	3,014	9,604	4,989	5,017	17,317	179,417
12000413 Lighting Occupancy Sensors	0	0	0	12,242	0	1,093	1,750	150	920	4,860	125	3,345	24,485
12000383 CILM (GSLM 1)	0	0	0	999	999	999	1,033	999	999	999	0	0	7,027
12000415 Refrigeration Anti-Condensate Control	0	0	0	0	193	66	22	0	0	0	0	0	281
12000387 Standby Generator	385,555	168,400	401,814	281,137	274,803	375,923	289,822	303,993	282,159	303,053	284,656	386,836	3,738,153
12003202 Thermal Energy Storage	0	0	0	0	0	0	23,200	0	0	33,300	0	0	56,500
12000399 Commercial Wall Insulation	0	0	0	0	0	0	0	0	0	0	0	0	0
12000417 Commercial Water Heating	0	0	0	0	315	456	22	0	0	0	0	0	793
12000427 Conservation Research and Development	423	0	121	181	27	0	0	0	0	0	0	0	751
12000393 Renewable Energy Program	(11,040)	(14,095)	(5,496)	(8,868)	(8,040)	(11,395)	(9,355)	(8,227)	(8,941)	(8,924)	(10,857)	(9,361)	(114,598)
12000347 Common Expenses	53,814	51,182	75,767	36,562	57,740	33,127	183,888	15,744	32,891	58,772	59,114	88,650	747,250
Total	3,134,715	2,858,246	3,323,141	3,819,086	3,362,907	4,642,538	4,213,484	4,650,144	3,655,538	3,782,054	3,106,633	3,895,633	44,444,119
Less: Renewable Energy Program	(11,040)	(14,095)	(5,496)	(8,868)	(8,040)	(11,395)	(9,355)	(8,227)	(8,941)	(8,924)	(10,857)	(9,361)	(114,598)
Recoverable Conservation Expenses	3,145,755	2,872,341	3,328,637	3,827,954	3,370,947	4,653,933	4,222,839	4,658,371	3,664,479	3,790,978	3,117,490	3,904,994	44,558,717

TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up and Interest Provision
For Months January 2018 through December 2018

Description	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Residential Conservation Audit Fees (A)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Conservation Adjustment Revenues *	3,397,627	3,137,210	3,024,337	3,002,129	3,197,275	3,697,227	4,088,019	4,022,034	4,340,506	4,007,641	3,495,893	3,094,192	42,504,089
3 Total Revenues	3,397,627	3,137,210	3,024,337	3,002,129	3,197,275	3,697,227	4,088,019	4,022,034	4,340,506	4,007,641	3,495,893	3,094,192	42,504,089
4 Prior Period True-up	<u>(249,759)</u>	<u>(249,759)</u>	<u>(249,759)</u>	<u>(249,759)</u>	<u>(249,759)</u>	<u>(249,759)</u>	<u>(249,759)</u>	<u>(249,759)</u>	<u>(249,759)</u>	<u>(249,759)</u>	<u>(249,759)</u>	<u>(249,762)</u>	<u>(2,997,111)</u>
5 Conservation Revenue Applicable to Period	3,147,868	2,887,451	2,774,578	2,752,370	2,947,516	3,447,468	3,838,260	3,772,275	4,090,747	3,757,882	3,246,134	2,844,430	39,506,978
6 Conservation Expenses	<u>3,145,755</u>	<u>2,872,341</u>	<u>3,328,637</u>	<u>3,827,954</u>	<u>3,370,947</u>	<u>4,653,934</u>	<u>4,222,839</u>	<u>4,658,371</u>	<u>3,664,479</u>	<u>3,790,978</u>	<u>3,117,490</u>	<u>3,904,992</u>	44,558,716
7 True-up This Period (Line 5 - Line 6)	2,113	15,110	(554,059)	(1,075,584)	(423,431)	(1,206,466)	(384,579)	(886,096)	426,268	(33,096)	128,644	(1,060,562)	(5,051,738)
8 Interest Provision This Period	(665)	(340)	(414)	(1,320)	(2,096)	(3,071)	(4,073)	(4,716)	(4,975)	(4,491)	(4,006)	(4,588)	(34,755)
9 True-up & Interest Provision Beginning of Period	(\$649,400)	(398,193)	(133,664)	(438,378)	(1,265,523)	(1,441,291)	(2,401,069)	(2,539,962)	(3,181,015)	(2,509,963)	(2,297,791)	(1,923,394)	(649,400)
10 Prior Period True-up Collected (Refunded)	<u>249,759</u>	<u>249,759</u>	<u>249,759</u>	<u>249,759</u>	<u>249,759</u>	<u>249,759</u>	<u>249,759</u>	<u>249,759</u>	<u>249,759</u>	<u>249,759</u>	<u>249,759</u>	<u>249,762</u>	<u>2,997,111</u>
11 End of Period Total Net True-up	<u>(\$398,193)</u>	<u>(\$133,664)</u>	<u>(\$438,378)</u>	<u>(\$1,265,523)</u>	<u>(\$1,441,291)</u>	<u>(\$2,401,069)</u>	<u>(\$2,539,962)</u>	<u>(\$3,181,015)</u>	<u>(\$2,509,963)</u>	<u>(\$2,297,791)</u>	<u>(\$1,923,394)</u>	<u>(\$2,738,782)</u>	<u>(\$2,738,782)</u>

* Net of Revenue Taxes

(A) Included in Line 6

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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up and Interest Provision
For Months January 2018 through December 2018

Interest Provision	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Beginning True-up Amount	(\$649,400)	(\$398,193)	(\$133,664)	(\$438,378)	(\$1,265,523)	(\$1,441,291)	(\$2,401,069)	(\$2,539,962)	(\$3,181,015)	(\$2,509,963)	(\$2,297,791)	(\$1,923,394)	
2 Ending True-up Amount Before Interest	(397,528)	(133,324)	(437,964)	(1,264,203)	(1,439,195)	(2,397,998)	(2,535,889)	(3,176,299)	(2,504,988)	(2,293,300)	(1,919,388)	(2,734,194)	
3 Total Beginning & Ending True-up	<u>(1,046,928)</u>	<u>(531,517)</u>	<u>(571,628)</u>	<u>(1,702,581)</u>	<u>(2,704,718)</u>	<u>(3,839,289)</u>	<u>(4,936,958)</u>	<u>(5,716,261)</u>	<u>(5,686,003)</u>	<u>(4,803,263)</u>	<u>(4,217,179)</u>	<u>(4,657,588)</u>	
4 Average True-up Amount (50% of Line 3)	<u>(523,464)</u>	<u>(265,759)</u>	<u>(285,814)</u>	<u>(851,291)</u>	<u>(1,352,359)</u>	<u>(1,919,645)</u>	<u>(2,468,479)</u>	<u>(2,858,131)</u>	<u>(2,843,002)</u>	<u>(2,401,632)</u>	<u>(2,108,590)</u>	<u>(2,328,794)</u>	
5 Interest Rate - First Day of Month	1.580000	1.460000	1.620000	1.860000	1.850000	1.860000	1.980000	1.980000	1.980000	2.210000	2.270000	2.300000	
6 Interest Rate - First Day of Next Month	1.460000	1.620000	1.860000	1.850000	1.860000	1.980000	1.980000	1.980000	2.210000	2.270000	2.300000	2.420000	
7 Total (Line 5 + Line 6)	3.040000	3.080000	3.480000	3.710000	3.710000	3.840000	3.960000	3.960000	4.190000	4.480000	4.570000	4.720000	
8 Average Interest Rate (50% of Line 7)	1.520000	1.540000	1.740000	1.855000	1.855000	1.920000	1.980000	1.980000	2.095000	2.240000	2.285000	2.360000	
9 Monthly Average Interest Rate (Line 8/12)	0.001270	0.001280	0.001450	0.001550	0.001550	0.001600	0.001650	0.001650	0.001750	0.001870	0.001900	0.001970	
10 Interest Provision (Line 4 x Line 9)	(\$665)	(\$340)	(\$414)	(\$1,320)	(\$2,096)	(\$3,071)	(\$4,073)	(\$4,716)	(\$4,975)	(\$4,491)	(\$4,006)	(\$4,588)	(\$34,755)

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2018 through December 2018

PRICE RESPONSIVE LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		\$40,587	\$60,384	\$57,762	\$35,531	\$78,973	\$28,407	\$90,592	\$70,139	\$82,613	\$69,501	\$77,785	\$26,158	\$718,433
2 Retirements		\$10,220	\$8,662	\$12,241	\$124,686	\$185,690	(\$3,893)	\$154,253	(\$26,740)	\$47,210	\$359,306	\$164,738	\$65,788	\$1,102,161
3 Depreciation Base		5,860,491	5,912,213	5,957,734	5,868,579	5,761,862	5,794,162	5,730,501	5,827,380	5,862,783	5,572,979	5,486,026	5,446,396	
4 Depreciation Expense		<u>97,422</u>	<u>98,106</u>	<u>98,916</u>	<u>98,553</u>	<u>96,920</u>	<u>96,299</u>	<u>96,039</u>	<u>96,316</u>	<u>97,418</u>	<u>95,298</u>	<u>92,158</u>	<u>91,104</u>	<u>1,154,549</u>
5 Cumulative Investment	5,830,123.87	\$5,860,491	\$5,912,213	\$5,957,734	\$5,868,579	\$5,761,862	\$5,794,162	\$5,730,501	\$5,827,380	\$5,862,783	\$5,572,979	\$5,486,026	\$5,446,396	\$5,446,396
6 Less: Accumulated Depreciation	3,358,378	3,445,580	3,535,024	3,621,699	3,595,566	3,506,796	3,606,988	3,548,774	3,671,830	3,722,038	3,458,030	3,385,450	3,410,766	3,410,766
7 Net Investment	<u>\$2,471,746</u>	<u>\$2,414,911</u>	<u>\$2,377,189</u>	<u>\$2,336,035</u>	<u>\$2,273,013</u>	<u>\$2,255,066</u>	<u>\$2,187,174</u>	<u>\$2,181,727</u>	<u>\$2,155,550</u>	<u>\$2,140,745</u>	<u>\$2,114,949</u>	<u>\$2,100,576</u>	<u>\$2,035,630</u>	<u>\$2,035,630</u>
8 Average Investment		2,443,328	2,396,050	2,356,612	2,304,524	2,264,040	2,221,120	2,184,451	2,168,639	2,148,148	2,127,847	2,107,763	2,068,103	
9 Return on Average Investment - Equity Component		11,734	11,507	11,317	11,067	10,873	10,667	10,567	10,490	10,391	10,293	10,196	10,004	129,106
10 Return on Average Investment - Debt Component		<u>3,657</u>	<u>3,586</u>	<u>3,527</u>	<u>3,449</u>	<u>3,388</u>	<u>3,324</u>	<u>3,121</u>	<u>3,098</u>	<u>3,069</u>	<u>3,040</u>	<u>3,011</u>	<u>2,955</u>	<u>39,225</u>
11 Total Depreciation and Return		<u>\$112,813</u>	<u>\$113,199</u>	<u>\$113,760</u>	<u>\$113,069</u>	<u>\$111,181</u>	<u>\$110,290</u>	<u>\$109,727</u>	<u>\$109,904</u>	<u>\$110,878</u>	<u>\$108,631</u>	<u>\$105,365</u>	<u>\$104,063</u>	<u>\$1,322,880</u>

Note: Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 5.7628% x 1/12 (Jan-Jun) and Line 9 x 5.8046% x1/12 (Jul-Dec). Based on ROE of 10.25% and weighted income tax rate of 25.345% (expansion factor of 1.34295).
Line 10 x 1.7959% x 1/12 (Jan-Jun) and Line 10 x 1.7144% x 1/12 (Jul-Dec).

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2018 through December 2018

INDUSTRIAL LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Retirements		\$0	\$0	\$0	\$0	\$561	\$29,782	\$23,169	\$1,513	\$101	\$0	\$0	\$0	\$55,126
3 Depreciation Base		55,126	55,126	55,126	55,126	54,565	24,783	1,614	101	0	0	0	0	
4 Depreciation Expense		919	919	919	919	914	661	220	14	0	0	0	0	5,485
5 Cumulative Investment	55,126.00	\$55,126	\$55,126	\$55,126	\$55,126	\$54,565	\$24,783	\$1,614	\$101	\$0	\$0	\$0	\$0	\$0
6 Less: Accumulated Depreciation	49,641	50,560	51,479	52,398	53,317	53,670	24,549	1,600	101	0	0	0	0	0
7 Net Investment	\$5,485	\$4,566	\$3,647	\$2,728	\$1,809	\$895	\$234	\$14	\$0	\$0	\$0	\$0	\$0	\$0
8 Average Investment		5,026	4,107	3,188	2,269	1,352	565	124	7	0	0	0	0	
9 Return on Average Investment		24	20	15	11	6	3	1	0	0	0	0	0	80
10 Return Requirements		<u>8</u>	<u>6</u>	<u>5</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>25</u>
11 Total Depreciation and Return		\$951	\$945	\$939	\$933	\$922	\$665	\$221	\$14	\$0	\$0	\$0	\$0	\$5,590

Note: Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 5.7628% x 1/12 (Jan-Jun) and Line 9 x 5.8046% x 1/12 (Jul-Dec). Based on ROE of 10.25% and weighted income tax rate of 25.345% (expansion factor of 1.34295).
Line 10 x 1.7959% x 1/12 (Jan-Jun) and Line 10 x 1.7144% x 1/12 (Jul-Dec).

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2018 through December 2018

ENERGY EDUCATION AWARENESS

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		(\$12,523)	\$13,325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ 801
2 Retirements		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
3 Depreciation Base		10,039	23,364	23,364	23,364	23,364	23,364	23,364	23,364	23,364	23,364	23,364	23,364	
4 Depreciation Expense		272	278	389	389	389	389	389	389	389	389	389	389	4,440
5 Cumulative Investment	22,562.36	\$10,039	\$23,364	\$23,364	\$23,364	\$23,364	\$23,364	\$23,364	\$23,364	\$23,364	\$23,364	\$23,364	\$23,364	\$23,364
6 Less: Accumulated Depreciation	355	627	906	1,295	1,684	2,073	2,463	2,853	3,242	3,631	4,021	4,410	4,800	4,800
7 Net Investment	\$22,207	\$9,412	\$22,458	\$22,069	\$21,680	\$21,291	\$20,901	\$20,511	\$20,122	\$19,733	\$19,343	\$18,954	\$18,564	\$18,564
8 Average Investment		15,810	15,935	22,264	21,875	21,486	21,096	20,706	20,317	19,928	19,538	19,149	18,759	
9 Return on Average Investment - Equity Component		76	77	107	105	103	101	100	98	96	95	93	91	1,142
10 Return on Average Investment - Debt Component		24	24	33	33	32	32	30	29	28	28	27	27	347
11 Total Depreciation and Return		\$372	\$379	\$529	\$527	\$524	\$522	\$519	\$516	\$513	\$512	\$509	\$507	\$5,929

Note: Depreciation expense is calculated using a useful life of 60 months.

Line 9 x 5.7628% x 1/12 (Jan-Jun) and Line 9 x 5.8046% x 1/12 (Jul-Dec). Based on ROE of 10.25% and weighted income tax rate of 25.345% (expansion factor of 1.34295).

Line 10 x 1.7959% x 1/12 (Jan-Jun) and Line 10 x 1.7144% x 1/12 (Jul-Dec).

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2018 through December 2018

COMMERCIAL LOAD MANAGEMENT

Description	Beginning of Period	COMMERCIAL LOAD MANAGEMENT												Total	
		January	February	March	April	May	June	July	August	September	October	November	December		
1 Investment		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ -
2 Retirements		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
3 Depreciation Base		0	0	0	0	0	0	0	0	0	0	0	0	0	
4 Depreciation Expense		0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Cumulative Investment	-	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6 Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Net Investment		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8 Average Investment		0	0	0	0	0	0	0	0	0	0	0	0	0	
9 Return on Average Investment - Equity Component		0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Return on Average Investment - Debt Component		-	-	-	-	-	-	-	-	-	-	-	-	-	0
11 Total Depreciation and Return		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Note: Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 5.7628% x 1/12 (Jan-Jun) and Line 9 x 5.8046% x 1/12 (Jul-Dec). Based on ROE of 10.25% and weighted income tax rate of 25.345% (expansion factor of 1.34295).
Line 10 x 1.7959% x 1/12 (Jan-Jun) and Line 10 x 1.7144% x 1/12 (Jul-Dec).

SCHEDULE CT-5
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TAMPA ELECTRIC COMPANY
Reconciliation and Explanation of
Difference Between Filing and FPSC Audit
For Months January 2018 through December 2018

The audit has not been completed as of the date of this filing.

Program Description and Progress

Program Title: Energy Audits

Program Description: Energy audits are a conservation program designed to save demand and energy by increasing customer awareness of energy use in personal residences, commercial facilities and industrial plants. Five types of audits are available to Tampa Electric customers; three types are for residential class customers and two types are for commercial/industrial customers.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating:
Residential Walk-Through: 7,667
Residential Customer Assisted: 27,734
Residential Computer Assisted: 2
Commercial/Industrial: 797
Commercial/Industrial Comprehensive: 1

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$3,043,683.

Program Progress Summary: Through this reporting period 358,056 customers have participated in on-site audits. Additionally, 152,238 customers have participated in company processed residential and commercial customer assisted audits.

Program Description and Progress

Program Title: Residential Ceiling Insulation

Program Description: The Residential Ceiling Insulation Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing ceiling insulation to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. Ceiling insulation is designed to reduce demand and energy by decreasing the load on residential air conditioning and heating equipment. Qualifying residential structures are eligible for a rebate based upon the total square footage of insulation installed over conditioned space. Customers will receive a certificate that is used as partial payment for the ceiling insulation installed.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 594

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$217,850.

Program Progress Summary: Through this reporting period 123,362 customers have participated.

Program Description and Progress

Program Title: Residential Duct Repair

Program Description: The Residential Duct Repair Program is a conservation rebate program designed to reduce demand and energy by decreasing the load on residential HVAC equipment helping the customer reduce their energy consumption and reducing Tampa Electric's peak demand. This program eliminates or reduces areas of HVAC air distribution losses by sealing and repairing the air distribution system. The air distribution system is defined as the air handler, air ducts, return plenums, supply plenums and any connecting structure.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 1,997

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$356,157.

Program Progress Summary: Through this reporting period 102,395 customers have participated.

Program Description and Progress

Program Title: Residential Electronically Commutated Motors (ECM)

Program Description: The Residential ECM Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing an ECM to help reduce their energy consumption and reduce Tampa Electric's peak demand. ECM motors are designed to help residential customers improve the overall efficiency of their existing HVAC equipment by replacing the current induction motor in the air-handler with an ECM.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$0.

Program Progress Summary: Through this reporting period five customers have participated.

Program Description and Progress

Program Title: Energy Education, Awareness and Agency Outreach

Program Description: The Energy Education, Awareness and Agency Outreach Program is comprised of three distinct initiatives. The Energy Education and Awareness portion of the program is designed to establish opportunities for engaging groups of customers and students in energy-efficiency related discussions in an organized setting. The Agency Outreach portion of the program will allow for delivery of energy efficiency kits that will help educate agency clients on practices that help to reduce energy consumption. The suggested practices will mirror the recommendations provided to customers who participate in a free energy audit.

Program Accomplishments: January 1, 2018 to December 31, 2018

In this reporting period Tampa Electric partnered with 9 local schools to present Energy Education to 5,090 students through classroom presentations. Tampa Electric also continues to partner with Junior Achievement BizTown presenting Energy Education to 19,894 students representing 219 local schools. In addition, the company gave 19 presentations to civic organizations and distributed 806 energy saving kits to participating customers.

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$123,481.

Program Progress Summary: Through this reporting period Tampa Electric has partnered with 125 local schools to present Energy Education to 40,524 students. In addition, the company gave 163 presentations to civic organizations that generated 1,190 customer assisted audits and distributed 6,583 energy saving kits to participating customers.

Program Description and Progress

Program Title: ENERGY STAR for New Multi-Family Residences

Program Description: The ENERGY STAR for New Multi-Family Residences Program is a residential new construction conservation program designed to reduce the growth of peak demand and energy in the residential new construction apartment and condominium residence market. The program utilizes a rebate to encourage the construction of new multi-family residences to meet the requirements to achieve the ENERGY STAR certified apartments and condominium label. By receiving this certificate, the new residence will use less energy and demand which will help reduce the growth of Tampa Electric's peak demand.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$1,164

Program Progress Summary: Tampa Electric received Commission approval to implement this program on May 4, 2018. Through this reporting period zero customers have participated.

Program Description and Progress

Program Title: ENERGY STAR for New Homes

Program Description: The ENERGY STAR for New Homes Program is a residential new construction conservation program designed to reduce the growth of peak demand and energy in the residential new construction market. The program utilizes a rebate to encourage the construction of new homes to meet the requirements to achieve the ENERGY STAR certified new home label. By receiving this certificate, the new home will use less energy and demand which will help reduce the growth of Tampa Electric's peak demand. This program replaced the prior Residential New Construction program.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 823

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$734,399.

Program Progress Summary: Through this reporting period 13,634 customers have participated.

Program Description and Progress

Program Title: Residential Heating and Cooling

Program Description: The Residential Heating and Cooling Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing high efficiency heating and cooling systems to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. High efficiency heating and cooling systems require less demand and energy as compared to standard systems. This program will rebate residential customers that install a qualifying air conditioning system.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 3,371

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$544,855.

Program Progress Summary: Through this reporting period 204,766 customers have participated.

Program Description and Progress

Program Title: Neighborhood Weatherization

Program Description: The Neighborhood Weatherization Program is designed to assist low income families in reducing their energy usage. The goal of the program is to provide and install a package of conservation measures at no cost to the customer. Another key component will be educating families and promoting energy conservation techniques to help customers control and reduce their energy usage.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 7,389

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$4,237,901.

Program Progress Summary: Through this reporting period 43,321 customers have participated.

Program Description and Progress

Program Title: Residential Price Responsive Load Management (Energy Planner)

Program Description: The company's program relies on a multi-tiered rate structure combined with price signals conveyed to participating customers during the day. This price information is designed to encourage customers to make behavioral or equipment usage changes to their energy consumption thereby achieving the desired high cost period load reduction to assist in meeting system peak.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of net customers participating: 747

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$3,546,949.

Program Progress Summary: Through this reporting period 4,886 customers have participated.

Program Description and Progress

Program Title: Residential Wall Insulation

Program Description: The Residential Wall Insulation Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing wall insulation to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. Wall insulation is designed to reduce demand and energy by decreasing the load on residential air conditioning and heating equipment. Qualifying residential structures are eligible for a rebate based upon the total square footage of insulation installed in exterior walls adjacent to conditioned spaces. Customers will receive a certificate that is used as partial payment for the wall insulation installed.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 2

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$312.

Program Progress Summary: Through this reporting period 197 customers have participated.

Program Description and Progress

Program Title: Residential Window Replacement

Program Description: The Residential Window Replacement Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for replacing existing external windows with high performance windows that help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. High performance windows are designed to reduce demand and energy by decreasing the solar heat gain into a residence and in turn, decrease the load on residential air conditioning equipment. Qualifying residential structures are eligible for a rebate based upon the total square footage of exterior windows replaced.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 1,817

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$803,473.

Program Progress Summary: Through this reporting period 15,023 customers have participated.

Program Description and Progress

Program Title: Prime Time

Program Description: This load management incentive program encourages residential customers to allow the control for reducing weather-sensitive heating, cooling and water heating through a radio signal control mechanism. The participating customers receive monthly incentives as credits on their electric bills. Per Commission Order No. PSC-15-0434-CO-EG issued October 12, 2015, the Prime Time Program began its systematic phased closure. This program was retired on May 11, 2016.

Program Accomplishments: January 1, 2018 to December 31, 2018

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$17,672.

Program Progress Summary: This program was retired on May 11, 2016.

Program Description and Progress

Program Title: Commercial Ceiling Insulation

Program Description: The Commercial Ceiling Insulation Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing ceiling insulation to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. Ceiling insulation is designed to reduce demand and energy by decreasing the load on commercial/industrial air conditioning and heating equipment. Qualifying structures are eligible for a rebate based upon the total square footage of insulation installed over conditioned space. Certificates for participation will be issued through energy audits or by direct evaluation of the existing building envelope.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 8

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$8,876.

Program Progress Summary: Through this reporting period 319 customers have participated.

Program Description and Progress

Program Title: Commercial Chiller

Program Description: The Commercial Chiller Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities and processes. The goal is to offer customer rebates for installing high efficiency electric water-cooled chillers and electric air-cooled chillers that exceed Florida's Building Code and minimum product manufacturing standards in commercial/industrial buildings or processes to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. High efficiency chillers reduce demand and energy by decreasing the load on air conditioning and heating equipment or process cooling equipment during weather sensitive peak demand times.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 1

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$1,487.

Program Progress Summary: Through this reporting period 69 customers have participated.

Program Description and Progress

Program Title: Cogeneration

Program Description: Tampa Electric's Cogeneration program is administered by a professional team experienced in working with cogenerators. The group manages functions related to coordination with Qualifying Facilities ("QFs") including negotiations, agreements and informational requests; functions related to governmental, regulatory and legislative bodies; research, development, data acquisition and analysis; economic evaluations of existing and proposed QFs as well as the preparation of Tampa Electric's Annual Twenty-Year Cogeneration Forecast.

Program Accomplishments: January 1, 2018 to December 31, 2018

The company continued communication and interaction with all present and potential customers.

Tampa Electric completed the development and publication of the 20-Year Cogeneration Forecast, reviewed proposed cogeneration opportunities for cost-effectiveness and answered data requests from existing cogenerators. The company also attended meetings as scheduled with cogeneration customer personnel at selected facilities.

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$56,825.

Program Progress Summary: At the end of 2018, there are eight cogeneration Qualifying Facilities ("QFs") that are on-line in Tampa Electric's service area. The total nameplate generation capacity of these eight interconnected cogeneration facilities is 443.3 MW. During 2018, the company received 192.0 GWh from these facilities. The company continues interaction with current and potential cogeneration developers regarding on-going and future cogeneration activities.

Program Description and Progress

Program Title: Conservation Value

Program Description: The Conservation Value Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. This rebate program is designed to recognize those investments in demand shifting or demand reduction measures that reduce Tampa Electric's peak demand. Measures funded in this program will not be covered under any other Tampa Electric commercial/industrial conservation programs. Candidates are identified through energy audits or their engineering consultants can submit proposals for funding which offer demand and energy reduction during weather sensitive peak periods helping reduce Tampa Electric's peak demand.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$0.

Program Progress Summary: Through this reporting period 51 customers have participated.

Program Description and Progress

Program Title: Cool Roof

Program Description: The Cool Roof Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing a cool roof system above conditioned spaces to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. Cool roofs reduce the heat load transferred into a building or facility by reflecting some of the sun's energy which reduces the load on commercial/industrial air conditioning and cooling equipment. Qualifying structures are eligible for a rebate based upon the total square footage of cool roof PVC membrane installed over conditioned space.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 21

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$200,704.

Program Progress Summary: Through this reporting period 253 customers have participated.

Program Description and Progress

Program Title: Commercial Cooling

Program Description: The Commercial Cooling Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing high efficiency heating and cooling systems to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. High efficiency heating and cooling systems require less demand and energy as compared to standard systems. This program will rebate commercial/industrial customers that install a qualifying air conditioning system.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 25

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$5,270.

Program Progress Summary: Through this reporting period 2,323 customers have participated.

Program Description and Progress

Program Title: Demand Response

Program Description: Tampa Electric's Commercial Demand Response is a conservation and load management program intended to help alter the company's system load curve by reducing summer and winter demand peaks. The company will contract for a turn-key program that will induce commercial/industrial customers to reduce their demand for electricity in response to market signals. Reductions will be achieved through a mix of emergency backup generation, energy management systems, raising cooling set-points and turning off or dimming lights, signage, etc.

Program Accomplishments: January 1, 2018 to December 31, 2018

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$3,931,879.

Program Progress Summary: Through this reporting period the company's vendor maintains a portfolio of participating customers providing an available total of 40 MW for demand response control.

Program Description and Progress

Program Title: Commercial Duct Repair

Program Description: The Commercial Duct Repair Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal of this conservation program is to offer rebates for sealing existing facility's duct system to reduce demand and energy by decreasing the load on commercial HVAC equipment. This program eliminates or reduces areas of HVAC air distribution losses by sealing and repairing the ADS.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 6

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$1,113.

Program Progress Summary: Through this reporting period 11,039 customers have participated.

Program Description and Progress

Program Title: Commercial Electronically Commutated Motors (ECM)

Program Description: The Commercial ECM Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal of this conservation program is to offer rebates for installing electronically commutated motors in existing air conditioning and refrigeration equipment. The program is aimed at reducing energy and the growth of weather sensitive peak demand by encouraging customers to replace current induction motors with high efficiency ECM that exceed minimum product manufacturing standards.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$0.

Program Progress Summary: Through this reporting period 1,512 customers have participated.

Program Description and Progress

Program Title: Industrial Load Management (GSLM 2&3)

Program Description: This load management program is for large industrial customers with interruptible loads of 500 kW or greater.

Program Accomplishments: January 1, 2018 to December 31, 2018

Net new customers participating: 1

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$17,586,339.

Program Progress Summary: This program was approved by the Commission in Docket No. 990037-EI, Order No. PSC-99-1778-FOF-EI, issued September 10, 1999.

Beginning May 2009, Tampa Electric transferred existing IS (non-firm) customers to a new IS (firm) rate schedule. These customers are now incented under GSLM-2 or GSLM-3 rate riders with expenses recovered through the ECCR clause.

Program Description and Progress

Program Title: Commercial Street and Outdoor Lighting Conversion

Program Description: The Commercial Street and Outdoor Lighting Conversion program is designed to convert the company's existing metal halide and high-pressure sodium street and outdoor luminaires to light emitting diode luminaires. The program allows for the recovery of the remaining unamortized costs in rate base associated with the luminaires converted.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of luminaires retired: 31,936

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Net expenditures were \$3,795,499.

Program Progress Summary: Through this reporting period 31,936 customers have participated.

Program Description and Progress

Program Title: Lighting Conditioned Space

Program Description: The Lighting Conditioned Space Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing energy efficient lighting technology and systems within conditioned space to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying conditioned spaces lighting systems.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 193

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$588,174.

Program Progress Summary: Through this reporting period 2,365 customers have participated.

Program Description and Progress

Program Title: Lighting Non-Conditioned Space

Program Description: The Lighting Non-Conditioned Space Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing energy efficient outdoor lighting technology and systems or in non-conditioned spaces to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying non-conditioned spaces lighting systems.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 246

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$179,417.

Program Progress Summary: Through this reporting period 797 customers have participated.

Program Description and Progress

Program Title: Lighting Occupancy Sensors

Program Description: The Lighting Occupancy Sensors Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing lighting occupancy sensors to efficiently control lighting systems to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying occupancy sensors for lighting systems.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 7

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$24,485.

Program Progress Summary: Through this reporting period 223 customers have participated.

Program Description and Progress

Program Title: Commercial Load Management

Program Description: The Commercial Load Management Program is intended to help alter Tampa Electric's system load curve by reducing summer and winter demand peaks. The goal is to offer customer incentives for allowing the installation and control of load management control equipment on specific technologies to reduce Tampa Electric's weather sensitive peak demand. Customers that participate in this program choose whether to have the technology controlled either interrupted for the entire control period or cycled during the control period. Tampa Electric will provide a monthly incentive credit to customers participating in this program.

Program Accomplishments: January 1, 2018 to December 31, 2018

Net new customers participating: 0

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$7,027.

Program Progress Summary: Through this reporting period there are six participating customers on cyclic control and zero customers on extended control.

Program Description and Progress

Program Title: Refrigeration Anti-Condensate Control

Program Description: The Refrigeration Anti-Condensate Control Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing energy efficient anti-condensate control technology for their refrigerated door heaters to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying anti-condensate control systems.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$281.

Program Progress Summary: Through this reporting period zero customers have participated. Expenses incurred were associated with administration and participation protocols.

Program Description and Progress

Program Title: Standby Generator

Program Description: The Standby Generator Program is designed to utilize the emergency generation capacity of commercial/industrial facilities in order to reduce weather sensitive peak demand. Tampa Electric provides the participating customers a 30-minute notice that their generation will be required. This allows customers time to start generators and arrange for orderly transfer of load. Tampa Electric meters and issues monthly credits for that portion of the generator's output that could serve normal building load after the notification time. Normal building load is defined as load (type, amount and time duration) that would have been served by Tampa Electric if the emergency generator did not operate. Under no circumstances will the generator deliver power to Tampa Electric's grid. Under the Environmental Protection Agency's rules, Tampa Electric classifies the Standby Generator Program as a non-emergency program.

Program Accomplishments: January 1, 2018 to December 31, 2018

Net new customers participating: 1

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$3,738,152.

Program Progress Summary: Through this reporting period there are 94 participating customers.

Program Description and Progress

Program Title: Thermal Energy Storage

Program Description: The Commercial TES Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing off-peak air conditioning systems to help reduce their demand while reducing Tampa Electric's weather sensitive peak demand. Tampa Electric will provide a rebate to customers who install qualifying TES systems.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 1

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$56,500.

Program Progress Summary: Through this reporting period two customers have participated.

Program Description and Progress

Program Title: Commercial Wall Insulation

Program Description: The Commercial Wall Insulation Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing wall insulation to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. Wall insulation is designed to reduce demand and energy by decreasing the load on commercial/industrial HVAC equipment. Qualifying structures are eligible for a rebate based upon the total square footage of insulation installed in exterior walls adjacent to conditioned spaces. Certificates for participation will be issued through energy audits or by direct evaluation of the current building envelope.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$0.

Program Progress Summary: Through this reporting period two customers have participated.

Program Description and Progress

Program Title: Commercial Water Heating

Program Description: The Commercial Water Heating Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing energy efficient water heating systems to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying water heating systems.

Program Accomplishments: January 1, 2018 to December 31, 2018

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$793.

Program Progress Summary: Through this reporting period zero customers have participated.

Program Description and Progress

Program Title: DSM Research and Development (R&D)

Program Description: This program is in response to Rule 25-17.001 (5) (f), F.A.C., that requires aggressive R&D projects be "...an ongoing part of the practice of every well managed utility's programs." It is also in support of FPSC Order No. 22176 dated November 14, 1989, requiring utilities to "...pursue research, development, and demonstration projects designed to promote energy efficiency and conservation." R&D activity will be conducted on proposed measures to determine the impact to the company and its ratepayers and may occur at customer premises, Tampa Electric facilities or at independent test sites. Tampa Electric will report program progress through the annual ECCR True-Up filing and as communicated to the commission the company will also provide the results of R&D activities in the company's annual DSM Report.

Program Accomplishments: January 1, 2018 to December 31, 2018

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$751.

Program Progress Summary: For 2018, Tampa Electric continued to make progress on partnering with the University of South Florida on Battery Storage. In addition, Tampa Electric finalized the commercial low-income weatherization analysis for the potential Low Income Commercial Weatherization program. Tampa Electric continues to research the addition of heat pump water heaters within the Energy Planner program.

Program Description and Progress

Program Title: Renewable Energy Program

Program Description: This program provides customers with the option to purchase 200 kWh blocks of renewable energy for five dollars per block to assist in the delivery of renewable energy to the company's grid system. This specific effort provides funding for renewable energy procurement, program administration, evaluation and market research.

Program Accomplishments: January 1, 2018 to December 31, 2018

Year-end customers participating:	1,500
Number of net customers participating:	-100
Blocks of energy purchased:	2,142
One-time blocks of energy sold:	702

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$21,777.
Actual program revenues were \$136,375.

Program Progress Summary: Through this reporting period 46,209 monthly and one-time blocks of renewable energy have been purchased.

Program Description and Progress

Program Title: Common Expenses

Program Description: These are expenses common to all programs.

Program Accomplishments: January 1, 2018 to December 31, 2018

N/A

Program Fiscal Expenditures: January 1, 2018 to December 31, 2018

Actual expenses were \$747,250.

Program Progress Summary: N/A