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May 1, 2017

VIA: ELECTRONIC FILING

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

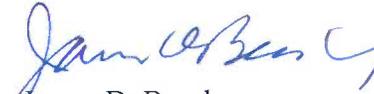
Re: Energy Conservation Cost Recovery Clause
FPSC Docket No. 170002-EG

Dear Ms. Stauffer:

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 2016 – December 2016.

Thank you for your assistance in connection with this matter.

Sincerely,


James D. Beasley

JDB/pp
Attachment



BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION
DOCKET NO. 170002-EG
IN RE: ENERGY CONSERVATION COST RECOVERY CLAUSE
TESTIMONY AND EXHIBIT
OF
MARK R. ROCHE

FILED: May 1, 2017

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 years of electric
23 utility experience. My utility work has included various
24 positions in Marketing and Sales, Customer Service,
25 Distributed Resources, Load Management, Power Quality,

1 Distribution Control Center operations, Meter Department,
2 Meter Field Operations, Service Delivery, Revenue
3 Assurance, Commercial and Industrial Energy Management
4 Services, and Demand Side Management ("DSM") Planning and
5 Forecasting. In my current position, I am responsible
6 for the company's Energy Conservation Cost Recovery
7 ("ECCR") Clause and Storm Hardening.

8
9 **Q.** What is the purpose of your testimony in this proceeding?

10
11 **A.** The purpose of my testimony is to present and support for
12 Commission review and approval the company's actual DSM
13 programs related true-up costs incurred during the
14 January through December 2016 period.

15
16 **Q.** Did you prepare any exhibits in support of your
17 testimony?

18
19 **A.** Yes. Exhibit No. MRR-1, entitled "Tampa Electric
20 Company, Schedules Supporting Conservation Cost Recovery
21 Factor, Actual, January 2016-December 2016" was prepared
22 under my direction and supervision. This Exhibit
23 includes Schedules CT-1 through CT-6 which support the
24 company's actual and prudent DSM program related true-up
25 costs incurred during the January through December 2016

1 period.

2

3 **Q.** What were Tampa Electric's actual January through
4 December 2016 conservation costs?

5

6 **A.** For the period, January through December 2016, Tampa
7 Electric incurred actual net conservation costs of
8 \$37,242,148.

9

10 **Q.** What is the final end of period true-up amount for the
11 conservation clause for January through December 2016?

12

13 **A.** The final conservation clause end of period true-up for
14 January through December 2016 is an under-recovery,
15 including interest, of \$719,198. This calculation is
16 detailed on Schedule CT-1, page 1 of 1.

17

18 **Q.** Please summarize how Tampa Electric's actual program
19 costs for January through December 2016 period compare to
20 the actual/estimated costs presented in Docket No.
21 160002-EG?

22

23 **A.** For the period, January through December 2016, Tampa
24 Electric had a variance of \$514,716 or 1.34 percent less
25 than the estimated amount. The estimated total program

1 costs were projected to be \$37,756,863 which was the
2 amount approved in Order No. PSC 16-0534-FOF-EG, issued
3 November 22, 2016 as compared to the incurred actual net
4 conservation costs of \$37,242,148.

5
6 **Q.** Please summarize the reasons why the actual expenses were
7 less than projected expenses by \$514,716?

8
9 **A.** The variance was a result of the following actual
10 expenses being less than estimated in the following
11 residential programs: Duct Repair; Electronically
12 Commutated Motors; Energy Education, Awareness and Agency
13 Outreach; ENERGY STAR for New Homes; Heating and Cooling;
14 Neighborhood Weatherization; Energy Planner; Wall
15 Insulation; Window Replacement; HVAC Re-Commissioning;
16 Window Film; and Prime Time. Additionally, actual
17 expenses less than estimated in the following
18 commercial/industrial programs: Ceiling Insulation;
19 Chiller; Cooling; Demand Response; Duct Repair,
20 Electronically Commutated Motors; Lighting Occupancy
21 Sensors; Load Management (GSLM-1); Refrigeration Anti-
22 Condensate Control; Standby Generator; Thermal Energy
23 Storage; Wall Insulation; Water Heating; Renewable Energy
24 Program; Exit Signs; HVAC Re-Commissioning; Motors; and
25 Roof Insulation. Common actual expenses were also less

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than estimated. Each DSM program's detailed variance and common variance contribution is shown on Schedule CT-2, Page 3 of 4.

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

A. Yes.

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

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

Q. On Schedule CT-2, Page 2 of 4, why are there costs in 2016 in the following DSM programs: Residential Window Film; Renewable Energy Systems Initiative; Exit Signs; Commercial HVAC Re-Commissioning and Commercial Window Film if each of these programs would have been retired prior to the beginning of 2016?

1 **A.** These costs incurred in 2016 for these programs occurred
2 due to three separate reasons. The first reason is if
3 the program required a verification, these customers
4 submitted their application for participation in the
5 program prior to the November 3, 2015 transition date.
6 Tampa Electric would perform the verification and then
7 the customer would be given time to perform the work, in
8 these instances the customer work was completed after the
9 beginning of 2016. The Residential Window Film,
10 Commercial Window Film and Exit Sign Programs required
11 verifications which caused these costs to be incurred in
12 2016. The second reason is timing of invoices. For the
13 Commercial HVAC Re-Commissioning Program the vendor that
14 was used for this program submitted their final invoice
15 to the company after the beginning of 2016. The third
16 reason is the final wrap-up of work that was performed in
17 the beginning of 2016 to complete the photovoltaic array
18 that was installed as part of the Renewable Energy
19 Systems Initiative Program.

20
21 **Q.** Should Tampa Electric's cost incurred during the January
22 through December 2016 period for energy conservation be
23 approved by the Commission?
24

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 2016 - DECEMBER 2016

CONSERVATION COST RECOVERY

INDEX

SCHEDULE	TITLE	PAGE
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CT-1
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TAMPA ELECTRIC COMPANY
Energy Conservation
Adjusted Net True-up
For Months January 2016 through December 2016

End of Period True-up

Principal	-\$721,922	
Interest	\$2,724	
Total		-\$719,198

Less: Projected True-up

(Last Projected Conservation Hearing)

Principal	-\$1,599,586	
Interest	\$641	
Total		-\$1,598,945

Adjusted Net True-up \$879,748

CT-2
 Page 1 of 4

TAMPA ELECTRIC COMPANY
 Analysis of Energy Conservation Program Costs
 Actual vs. Projected
 For Months January 2016 through December 2016

Description	Actual	Projected	Difference
\$1 Capital Investment	\$1,568,981	\$1,593,887	(\$24,906)
\$2 Payroll	\$3,407,225	\$3,631,368	(\$224,144)
\$3 Materials and Supplies	\$42,187	\$48,768	(\$6,581)
\$4 Outside Services	\$6,719,276	\$5,376,030	\$1,343,246
\$5 Advertising	\$923,316	\$972,295	(\$48,979)
\$6 Incentives	\$23,946,638	\$25,688,010	(\$1,741,372)
\$7 Vehicles	\$395,326	\$335,980	\$59,346
\$8 Other	\$398,224	\$411,907	(\$13,683)
\$9 Subtotal	\$37,401,173	\$38,058,245	(\$657,073)
\$10 Less: Program Revenues	(\$159,025)	(\$301,382)	\$142,357
\$11 Total Program Costs	\$37,242,148	\$37,756,863	(\$514,716)
\$12 Adjustments	\$0	\$0	\$0
\$13 Beginning of Period True-up	(\$4,056,772)	(\$4,056,772)	\$0
Overrecovery			
\$14 Amounts included in Base Rates	\$0	\$0	\$0
\$15 Conservation Adjustment Revenues	(\$32,463,454)	(\$32,100,505)	(\$362,949)
\$16 True-up Before Interest	(\$721,922)	(\$1,599,586)	\$877,665
\$17 Interest Provision	\$2,724	\$641	\$2,083
\$18 End of Period True-up	(\$719,198)	(\$1,598,945)	\$879,748

TAMPA ELECTRIC COMPANY
Actual Conservation Program Costs per Program
For Months January 2016 through December 2016

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
12000353- Energy Audits	0	1,193,691	5,883	167,487	707,103	0	270,143	53,912	0	2,398,219
12000381 Residential Ceiling Insulation	0	70,359	890	2,602	0	277,567	3,610	2,028	0	357,056
12000391 Residential Duct Repair	0	37,195	684	2,548	0	216,094	3,668	11,863	0	272,052
12000419 Residential Electronically Commutated Motors	0	0	0	0	0	0	0	0	0	0
12000375 Energy Education, Awareness and Agency Outrea	0	37,455	203	9,129	0	0	791	9,503	0	57,081
12000431 Energy Star for New Homes	0	21,515	0	2,447	2,549	389,550	441	5,657	0	422,159
12000349 Residential Heating and Cooling	0	77,143.00	-	17,066.00	-	502,270.00	379.00	4,971.00	0	601,829
12000425 Neighborhood Weatherization	0	98,933	263	941,993	0	2,040,515	5,870	3,283	0	3,090,857
12000433 Energy Planner	1,555,967	762,568	6,122	493,723	208,427	0	77,864	163,303	0	3,267,974
12000365 Residential Wall Insulation	0	1,307	0	0	0	328	0	0	0	1,635
12000367 Residential Window Replacement	0	70,325	0	9,936	0	462,811	332	2	0	543,406
12000421 Residential HVAC Re-Commissioning	0	0	0	0	0	0	0	0	0	0
12000373 Residential Window Film	0	0	0	0	0	431	0	0	0	431
12000351 Prime Time	0	159,629.61	12,153.00	1,045,107.00	-	413,238.00	11,889.00	39,779.00	0	1,681,796
12000397 Commercial Ceiling Insulation	0	6,282	0	24	0	33,120	15	0	0	39,441
12000411 Commercial Chiller	0	878	0	12	0	12,447	0	0	0	13,337
12000371 Cogeneration	0	71,371	0	0	0	0	626	0	0	71,997
12000389 Conservation Value	0	11,108	32	24	0	217,905	0	0	0	229,069
12000443 Cool Roof	0	23,250	0	512	0	250,798	203	618	0	275,381
12000429 Commercial Cooling	0	5,023	0	119	0	1,323	11	612	0	7,088
12000409 Demand Response	0	17,107	0	3,672,000	0	0	707	2,091	0	3,691,905
12000377 Commercial Duct Repair	0	8,649	0	71	0	18,600	0	0	0	27,320
12000441 Commercial ECM	0	3,661	0	190	0	17,368	0	42	0	21,261
12000379 Industrial Load Management (GLSM 2&3)	13,014	17,636	14,750	2,699	0	15,804,199	6,553	4,894	0	15,863,745
12000385 Lighting Conditioned Space	0	55,740	231	3,266	0	282,741	1,762	1,496	0	345,236
12003201 Lighting Non-Conditioned Space	0	9,767	0	0	0	51,545	354	222	0	61,888
12000413 Lighting Occupancy Sensors	0	1,532	0	102	0	13,410	23	72	0	15,139
12000383 CILM (GLSM 1)	0	1,174	0	0	0	6,906	4,466	0	0	12,546
12000415 Refrigeration Anti-condensate Control	0	150	0	12	0	0	0	0	0	162
12000387 Standby Generator	0	30,126	159	261	0	2,917,872	88	368	0	2,948,874
12003202 Thermal Energy Storage	0	515	215	0	0	0	0	328	0	1,058
12000399 Commercial Wall Insulation	0	0	0	0	0	0	0	0	0	0
12000417 Commercial Water Heating	0	29	0	12	0	0	0	0	0	41
12000427 Conservation Research and Development	0	2,910	0	0	0	0	22	0	0	2,932
12000393 Renewable Energy Program	0	31,230	0	9,871	5,237	0	4,416	44,463	(159,025)	(63,808)
12000403- Renewable Enery Systems Initiative	0	13,708	0	6,355	0	8,000	27	4	0	28,094
12000445 Commercial ERV	0	0	0	0	0	0	0	0	0	0
12000437 Commercial Exit Signs	0	0	0	0	0	314	0	0	0	314
12000439 Commercial HVAC Re-commissioning	0	0	0	0	0	825	0	0	0	825
12000401 Commercial Motors	0	0	0	0	0	0	0	0	0	0
12000435 Commercial Roof Insulation	0	0	0	0	0	0	0	0	0	0
12000395 Commercial Window Film	0	60	0	12	0	6,461	0	0	0	6,533
12000347 Common Expenses	\$0	565,195.74	602.00	331,696.00	-	-	1,066.00	48,713.00	\$0	\$947,273
Total All Programs	\$1,568,981	\$3,407,225	\$42,187	\$6,719,276	\$923,316	\$23,946,638	\$395,326	\$398,224	(\$159,025)	\$37,242,148

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TAMPA ELECTRIC COMPANY
Conservation Program Costs per Program
Variance - Actual vs. Projected
For Months January 2016 through December 2016

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
12000353- Energy Audits	\$0	\$13,552	(\$1,083)	(\$26,015)	\$5,240	\$0	\$106,312	(\$2,799)	\$0	95,207
12000381 Residential Ceiling Insulation	\$0	\$1,858	\$85	\$0	\$0	\$17,782	(\$1,145)	(\$145)	\$0	18,435
12000391 Residential Duct Repair	\$0	(\$2,855)	\$162	\$0	\$0	(\$18,480)	(\$1,024)	\$174	\$0	(22,023)
12000419 Residential Electronically Commutated Motors	\$0	(\$12)	\$0	(\$105)	\$0	(\$460)	\$0	\$0	\$0	(577)
12000375 Energy Education, Awareness and Agency Outreach	\$0	(\$12,537)	(\$523)	(\$7,204)	\$0	\$0	(\$1,887)	\$3,600	\$0	(18,551)
12000431 Energy Star for New Homes	\$0	(\$3,177)	\$0	\$691	\$1,299	(\$77,375)	(\$179)	(\$2,137)	\$0	(80,878)
12000349 Residential Heating and Cooling	\$0	(\$3,304)	(\$120)	\$5,062	\$0	(\$40,905)	(\$267)	\$68	\$0	(39,466)
12000425 Neighborhood Weatherization	\$0	(\$99,538)	(\$687)	(\$140,791)	\$0	(\$492,096)	\$185	(\$1,100)	\$0	(734,027)
12000433 Energy Planner	(\$24,918)	(\$61,256)	\$877	(\$45,562)	(\$55,518)	\$0	(\$9,977)	(\$11,526)	\$0	(207,880)
12000365 Residential Wall Insulation	\$0	\$187	\$0	(\$47)	\$0	(\$743)	\$0	(\$10)	\$0	(613)
12000367 Residential Window Replacement	\$0	\$10,910	\$0	\$4,375	\$0	(\$51,436)	(\$242)	\$0	\$0	(36,393)
12000421 Residential HVAC Re-Commissioning	\$0	(\$2,603)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(2,603)
12000373 Residential Window Film	\$0	(\$7,021)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(7,021)
12000351 Prime Time	\$0	(\$30,269)	\$732	\$15,617	\$0	(\$7,996)	\$1,512	(\$355)	\$0	(20,759)
12000397 Commercial Ceiling Insulation	\$0	(\$555)	\$0	\$0	\$0	(\$2,601)	(\$285)	\$0	\$0	(3,441)
12000411 Commercial Chiller	\$0	(\$960)	\$0	\$0	\$0	(\$11,863)	(\$150)	(\$100)	\$0	(13,073)
12000371 Cogeneration	\$0	\$13,570	\$0	\$0	\$0	\$0	\$245	\$0	\$0	13,815
12000389 Conservation Value	\$0	(\$1,037)	\$32	(\$3,252)	\$0	\$18,302	(\$150)	\$0	\$0	13,895
12000443 Cool Roof	\$0	(\$5,603)	\$0	\$0	\$0	\$129,370	(\$214)	\$612	\$0	124,165
12000429 Commercial Cooling	\$0	(\$110)	(\$119)	\$119	\$0	(\$1,919)	(\$139)	(\$50)	\$0	(2,218)
12000409 Demand Response	\$0	(\$17,309)	\$0	\$1,836,000	\$0	(\$1,836,000)	(\$48)	\$543	\$0	(16,814)
12000377 Commercial Duct Repair	\$0	(\$2,960)	\$0	\$0	\$0	(\$5,400)	(\$240)	(\$300)	\$0	(8,900)
12000441 Commercial ECM	\$0	\$49	\$0	(\$500)	\$0	(\$612)	(\$50)	\$0	\$0	(1,113)
12000379 Industrial Load Management (GLSM 2&3)	\$12	\$1,593	\$0	\$0	\$0	\$692,169	(\$404)	\$0	\$0	693,370
12000385 Lighting Conditioned Space	\$0	(\$3,392)	\$16	\$0	\$0	\$53,983	\$564	(\$200)	\$0	50,971
12003201 Lighting Non-Conditioned Space	\$0	(\$5,191)	\$0	\$0	\$0	\$13,207	(\$145)	(\$100)	\$0	7,771
12000413 Lighting Occupancy Sensors	\$0	(\$1,183)	\$0	\$0	\$0	(\$8,240)	(\$150)	(\$50)	\$0	(9,623)
12000383 CILM (GLSM 1)	\$0	(\$6,887)	\$0	\$0	\$0	(\$24)	\$2,058	(\$5,000)	\$0	(9,853)
12000415 Refrigeration Anti-condensate Control	\$0	(\$93)	\$0	\$0	\$0	(\$1,500)	\$0	\$0	\$0	(1,593)
12000387 Standby Generator	\$0	(\$24,666)	\$48	\$0	\$0	(\$65,335)	(\$115)	\$0	\$0	(90,068)
12003202 Thermal Energy Storage	\$0	(\$4,792)	\$0	(\$540)	\$0	(\$40,000)	(\$250)	\$0	\$0	(45,582)
12000399 Commercial Wall Insulation	\$0	(\$164)	\$0	(\$12)	\$0	(\$2,000)	(\$50)	\$0	\$0	(2,226)
12000417 Commercial Water Heating	\$0	(\$164)	\$0	\$0	\$0	(\$1,200)	(\$25)	\$0	\$0	(1,389)
12000427 Conservation Research and Development	\$0	\$2,910	\$0	\$0	\$0	\$0	\$22	\$0	\$0	2,932
12000393 Renewable Energy Program	\$0	\$409	\$0	(\$204,117)	\$0	\$0	\$1,836	\$83	\$142,357	(59,432)
12000403- 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	(\$325)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(325)
12000439 Commercial HVAC Re-commissioning	\$0	(\$1,221)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(1,221)
12000401 Commercial Motors	\$0	(\$29)	\$0	\$0	\$0	\$0	\$0	(\$612)	\$0	(641)
12000435 Commercial Roof Insulation	\$0	\$0	\$0	\$0	\$0	\$0	(\$36,288)	\$0	\$0	(36,288)
12000395 Commercial Window Film	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
12000347 Common Expenses	\$0	\$30,029	(\$6,001)	(\$90,473)	\$0	\$0	\$36	\$5,721	\$0	(\$60,688)
44 Total All Programs	(\$24,906)	(\$224,144)	(\$6,581)	\$1,343,246	(\$48,979)	(\$1,741,372)	\$59,346	(\$13,683)	\$142,357	(\$514,716)

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CT-2
 Page 4 of 4

TAMPA ELECTRIC COMPANY
 Description for Accounts
 For Months January 2016 through December 2016

Internal Order	Program Name
12000359	Energy Audits
12000355	Energy Audits
12000357	Energy Audits
12000369	Energy Audits
12000363	Energy Audits
12000361	Energy Audits
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)
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 2016 through December 2016

Program Name	January	February	March	April	May	June	July	August	September	October	November	December	Total
12000353 Energy Audits	82,689	231,934	204,620	168,727	233,052	197,022	206,180	220,744	209,524	243,716	155,230	244,782	2,398,220
12000381 Residential Ceiling Insulation	31,791	17,020	20,770	24,658	24,889	33,097	33,266	46,223	37,410	31,786	29,657	26,489	357,056
12000391 Residential Duct Repair	13,718	33,089	14,567	15,580	17,866	46,565	20,677	16,691	21,381	20,433	23,683	27,802	272,052
12000419 Residential Electronically Commutated Motors	-	-	-	-	-	-	-	-	-	-	-	-	-
12000375 Energy Education, Awareness and Agency Outre	3,908	6,506	4,853	4,005	6,093	4,174	4,367	10,368	4,437	3,003	3,726	1,640	57,080
12000431 Energy Star for New Homes	49,381	15,423	46,756	46,431	25,036	45,889	33,406	49,678	12,072	50,158	36,767	11,164	422,158
12000349 Residential Heating and Cooling	51,343	38,245	43,812	53,492	51,129	55,768	55,090	63,492	62,421	54,196	48,082	24,760	601,829
12000425 Neighborhood Weatherization	221,304	397,210	289,253	291,777	337,169	291,195	158,460	279,792	154,432	246,347	198,918	225,000	3,090,857
12000433 Energy Planner	348,760	284,269	310,162	253,308	276,368	274,468	261,705	283,668	266,105	267,438	246,221	195,502	3,267,974
12000365 Residential Wall Insulation	106	148	253	174	222	153	182	226	34	-	-	137	1,635
12000367 Residential Window Replacement	40,149	40,250	40,773	57,744	54,784	47,830	47,804	53,976	45,183	47,819	36,416	30,678	543,406
12000421 Residential HVAC Re-Commissioning	0	0	0	0	0	0	0	0	-	-	-	-	-
12000373 Residential Window Film	264	167	0	0	0	0	0	-	-	-	-	-	433
12000351 Prime Time	339,323	322,049	358,362	197,813	156,224	101,852	47,308	53,889	63,848	7,452	16,323	17,352	1,681,796
12000397 Commercial Ceiling Insulation	798	429	7,029	23,484	466	2,067	680	2,485	802	252	355	595	39,441
12000411 Commercial Chiller	68	117	56	113	9,127	-	-	-	-	30	1,810	2,016	13,337
12000371 Cogeneration	3,296	6,065	8,058	6,381	5,526	6,242	5,550	6,397	8,043	5,980	5,446	5,012	71,996
12000389 Conservation Value	87,278	1,096	13,705	732	867	624	39,711	14,953	994	542	67,807	760	229,070
12000443 Cool Roof	34,502	10,975	11,855	2,605	4,251	1,876	25,743	69,991	30,815	46,732	33,342	2,695	275,381
12000429 Commercial Cooling	610	1,067	1,815	2,006	469	56	172	54	109	295	437	-	7,088
12000409 Demand Response	306,693	307,659	307,911	308,904	307,387	307,364	306,832	307,144	308,450	307,550	307,930	308,081	3,691,905
12000377 Commercial Duct Repair	8,039	9,430	1,844	1,310	1,846	926	1,846	1,011	271	380	162	253	27,320
12000441 Commercial ECM	12	14,029	5,597	438	136	42	271	109	215	109	194	109	21,261
12000379 Industrial Load Management (GLSM 2&3)	1,381,033	1,363,819	1,236,929	1,282,121	1,185,373	1,400,666	1,230,509	1,382,969	1,366,553	1,322,632	1,333,950	1,377,191	15,863,745
12000385 Lighting Conditioned Space	26,132	53,929	11,575	20,847	17,707	46,459	23,897	10,772	67,327	25,279	20,524	20,788	345,236
12003201 Lighting Non-Conditioned Space	5,467	2,007	171	4,651	1,985	7,153	2,096	10,435	5,617	7,248	8,747	6,311	61,888
12000413 Lighting Occupancy Sensors	18	3,158	920	1,859	877	4,261	60	3,899	86	-	-	-	15,138
12000383 CILM (GLSM 1)	1,323	431	418	1,424	1,373	1,362	1,362	1,362	1,362	399	1,362	368	12,547
12000415 Refrigeration Anti-condensate Control	12	-	-	-	29	-	60	-	-	-	-	60	161
12000387 Standby Generator	249,148	250,521	248,685	251,130	246,932	246,536	245,321	251,012	250,447	247,630	242,561	218,951	2,948,874
12003202 Thermal Energy Storage	-	-	328	-	215	-	-	-	217	54	244	-	1,058
12000399 Commercial Wall Insulation	-	-	-	-	-	-	-	-	-	-	-	-	-
12000417 Commercial Water Heating	12	-	-	-	29	-	-	-	-	-	-	-	41
12000427 Conservation Research and Development	-	-	-	-	-	-	-	1,387	421	162	690	271	2,932
12000393 Renewable Energy Program	(11,597)	(10,438)	643	(9,781)	(9,221)	36,018	(11,584)	(10,442)	(9,098)	(9,643)	(8,818)	(9,849)	(63,808)
12000403 Renewable Energy Systems Initiative	5,243	10,216	2,937	-	9,667	31	-	-	-	-	-	-	28,094
12000445 Commercial ERV	-	-	-	-	-	-	-	-	-	-	-	-	-
12000437 Commercial Exit Signs	-	0	-	-	314	-	-	0	-	-	-	-	315
12000439 Commercial HVAC Re-commissioning	0	0	825	-	-	-	-	-	-	-	-	-	826
12000401 Commercial Motors	-	-	612	-	0	-	-	(612)	-	-	-	-	-
12000435 Commercial Roof Insulation	-	-	-	-	-	-	-	-	-	-	-	-	-
12000395 Commercial Window Film	6,533	-	-	-	-	-	-	-	-	-	-	-	6,533
12000347 Common Expenses	44,881	60,614	161,170	67,479	61,114	157,655	44,427	48,046	91,873	82,564	62,894	64,556	947,273
Total	3,332,239	3,471,433	3,357,265	3,079,412	3,029,303	3,317,350	2,785,401	3,179,719	3,001,350	3,010,543	2,874,659	2,803,477	37,242,151
Less: Amount Included in Base Rates	-	-	-	-	-	-	-	-	-	-	-	-	-
Recoverable Conservation Expenses	3,332,239	3,471,433	3,357,265	3,079,412	3,029,303	3,317,350	2,785,401	3,179,719	3,001,350	3,010,543	2,874,659	2,803,477	37,242,151

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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up and Interest Provision
For Months January 2016 through December 2016

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 *	2,519,384	2,366,158	2,225,204	2,353,210	2,582,568	3,052,555	3,262,212	3,222,081	3,237,713	2,911,396	2,409,897	2,321,077	32,463,454
3 Total Revenues	2,519,384	2,366,158	2,225,204	2,353,210	2,582,568	3,052,555	3,262,212	3,222,081	3,237,713	2,911,396	2,409,897	2,321,077	32,463,454
4 Prior Period True-up	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,779</u>	<u>6,249,403</u>
5 Conservation Revenue Applicable to Period	3,040,168	2,886,942	2,745,988	2,873,994	3,103,352	3,573,339	3,782,996	3,742,865	3,758,497	3,432,180	2,930,681	2,841,856	38,712,857
6 Conservation Expenses	<u>3,332,239</u>	<u>3,471,433</u>	<u>3,357,265</u>	<u>3,079,412</u>	<u>3,029,303</u>	<u>3,317,350</u>	<u>2,785,401</u>	<u>3,179,719</u>	<u>3,001,350</u>	<u>3,010,543</u>	<u>2,874,659</u>	<u>2,803,477</u>	37,242,151
7 True-up This Period (Line 5 - Line 6)	(292,071)	(584,491)	(611,277)	(205,418)	74,049	255,989	997,595	563,146	757,147	421,637	56,022	38,379	1,470,706
8 Interest Provision This Period	1,205	915	567	213	19	(101)	(65)	24	77	111	(2)	(239)	2,724
9 True-up & Interest Provision Beginning of Period	\$4,056,772	3,245,122	2,140,762	1,009,268	283,279	(163,437)	(428,333)	48,413	90,799	327,239	228,203	(236,561)	4,056,772
10 Prior Period True-up Collected (Refunded)	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,779)</u>	<u>(6,249,403)</u>
11 End of Period Total Net True-up	<u>\$3,245,122</u>	<u>\$2,140,762</u>	<u>\$1,009,268</u>	<u>\$283,279</u>	<u>(\$163,437)</u>	<u>(\$428,333)</u>	<u>\$48,413</u>	<u>\$90,799</u>	<u>\$327,239</u>	<u>\$228,203</u>	<u>(\$236,561)</u>	<u>(\$719,200)</u>	<u>(\$719,200)</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 2016 through December 2016

Interest Provision	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Beginning True-up Amount	\$4,056,772	\$3,245,122	\$2,140,762	\$1,009,268	\$283,279	(\$163,437)	(\$428,333)	\$48,413	\$90,799	\$327,239	\$228,203	(\$236,561)	
2 Ending True-up Amount Before Interest	3,243,917	2,139,847	1,008,701	283,066	(163,456)	(428,232)	48,478	90,775	327,162	228,092	(236,559)	(718,961)	
3 Total Beginning & Ending True-up	<u>7,300,689</u>	<u>5,384,969</u>	<u>3,149,463</u>	<u>1,292,334</u>	<u>119,823</u>	<u>(591,669)</u>	<u>(379,855)</u>	<u>139,188</u>	<u>417,961</u>	<u>555,331</u>	<u>(8,356)</u>	<u>(955,522)</u>	
4 Average True-up Amount (50% of Line 3)	<u>3,650,345</u>	<u>2,692,485</u>	<u>1,574,732</u>	<u>646,167</u>	<u>59,912</u>	<u>(295,835)</u>	<u>(189,928)</u>	<u>69,594</u>	<u>208,981</u>	<u>277,666</u>	<u>(4,178)</u>	<u>(477,761)</u>	
5 Interest Rate - First Day of Month	0.400%	0.400%	0.420%	0.440%	0.340%	0.430%	0.380%	0.430%	0.410%	0.480%	0.480%	0.480%	
6 Interest Rate - First Day of Next Month	0.400%	0.420%	0.440%	0.340%	0.430%	0.380%	0.430%	0.410%	0.480%	0.480%	0.480%	0.720%	
7 Total (Line 5 + Line 6)	0.800%	0.820%	0.860%	0.780%	0.770%	0.810%	0.810%	0.840%	0.890%	0.960%	0.960%	1.200%	
8 Average Interest Rate (50% of Line 7)	0.400%	0.410%	0.430%	0.390%	0.385%	0.405%	0.405%	0.420%	0.445%	0.480%	0.480%	0.600%	
9 Monthly Average Interest Rate (Line 8/12)	0.033%	0.034%	0.036%	0.033%	0.032%	0.034%	0.034%	0.035%	0.037%	0.040%	0.040%	0.050%	
10 Interest Provision (Line 4 x Line 9)	\$1,205	\$915	\$567	\$213	\$19	(\$101)	(\$65)	\$24	\$77	\$111	(\$2)	(\$239)	\$2,724

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2016 through December 2016

PRICE RESPONSIVE LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		\$ 84,005	\$ 109,085	\$ 127,551	\$ 61,833	\$ 46,833	\$ 87,818	\$ 26,316	\$ 93,121	\$ 38,688	\$ 49,204	\$ 59,032	\$ 400	\$ 783,886
2 Retirements		17,891	209,735	27,109	66,811	78,805	160,945	42,603	190,316	78,392	100,525	58,954	81,050	1,113,136
3 Depreciation Base		6,404,703	6,304,053	6,404,495	6,399,517	6,367,545	6,294,418	6,278,131	6,180,937	6,141,233	6,089,913	6,089,991	6,009,341	
4 Depreciation Expense		<u>106,194</u>	<u>105,906</u>	<u>105,905</u>	<u>106,700</u>	<u>106,392</u>	<u>105,516</u>	<u>104,771</u>	<u>103,826</u>	<u>102,685</u>	<u>101,926</u>	<u>101,499</u>	<u>100,828</u>	<u>1,252,148</u>
5 Cumulative Investment	6,338,588.11	\$6,404,703	\$6,304,053	\$6,404,495	\$6,399,517	\$6,367,545	\$6,294,418	\$6,278,131	\$6,180,937	\$6,141,233	\$6,089,913	\$6,089,991	\$6,009,341	\$6,009,341
6 Less: Accumulated Depreciation	2,813,057	2,901,360	2,797,531	2,876,327	2,916,216	2,943,803	2,888,374	2,950,542	2,864,052	2,888,345	2,889,746	2,932,291	2,952,069	2,952,069
7 Net Investment	<u>\$3,525,531</u>	<u>\$3,503,343</u>	<u>\$3,506,522</u>	<u>\$3,528,168</u>	<u>\$3,483,301</u>	<u>\$3,423,742</u>	<u>\$3,406,044</u>	<u>\$3,327,589</u>	<u>\$3,316,885</u>	<u>\$3,252,888</u>	<u>\$3,200,167</u>	<u>\$3,157,700</u>	<u>\$3,057,272</u>	<u>\$3,057,272</u>
8 Average Investment		3,514,437	3,504,933	3,517,345	3,505,735	3,453,522	3,414,893	3,366,817	3,322,237	3,284,887	3,226,528	3,178,934	3,107,486	
9 Return on Average Investment - Equity Component		20,660	20,604	20,677	20,608	20,302	20,074	19,734	19,473	19,254	18,912	18,633	18,214	237,145
10 Return on Average Investment - Debt Component		<u>5,702</u>	<u>5,687</u>	<u>5,707</u>	<u>5,688</u>	<u>5,604</u>	<u>5,541</u>	<u>5,657</u>	<u>5,582</u>	<u>5,520</u>	<u>5,422</u>	<u>5,342</u>	<u>5,222</u>	<u>66,674</u>
11 Total Depreciation and Return		<u>\$132,556</u>	<u>\$132,197</u>	<u>\$132,289</u>	<u>\$132,996</u>	<u>\$132,298</u>	<u>\$131,131</u>	<u>\$130,162</u>	<u>\$128,881</u>	<u>\$127,459</u>	<u>\$126,260</u>	<u>\$125,474</u>	<u>\$124,264</u>	<u>\$1,555,967</u>

Note: Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 7.0844% x 1/12 (Jan-Jun) and Line 9 x 7.0542% x 1/12 (Jul-Dec). Based on ROE of 10.25% and weighted income tax rate of 38.575% (expansion factor of 1.632200).
Line 10 x 2.0343% x 1/12 (Jan-Jun) and Line 10 x 1.9471% x 1/12 (Jul-Dec).

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2016 through December 2016

INDUSTRIAL LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0
2 Retirements		-	-	-	-	-	-	-	-	-	-	-	-	0
3 Depreciation Base		55,126	55,126	55,126	55,126	55,126	55,126	55,126	55,126	55,126	55,126	55,126	55,126	
4 Depreciation Expense		919	919	919	919	919	919	919	919	919	919	919	919	11,028
5 Cumulative Investment	55,126.00	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126
6 Less: Accumulated Depreciation	27,590	28,509	29,428	30,347	31,266	32,185	33,104	34,023	34,942	35,861	36,780	37,699	38,618	38,618
7 Net Investment	\$27,536	\$26,617	\$25,698	\$24,779	\$23,860	\$22,941	\$22,022	\$21,103	\$20,184	\$19,265	\$18,346	\$17,427	\$16,508	\$16,508
8 Average Investment		27,076	26,158	25,239	24,320	23,401	22,482	21,563	20,644	19,725	18,806	17,887	16,968	
9 Return on Average Investment		159	154	148	143	138	132	126	121	116	110	105	99	1,551
10 Return Requirements		44	42	41	39	38	36	36	35	33	32	30	29	435
11 Total Depreciation and Return		\$1,122	\$1,115	\$1,108	\$1,101	\$1,095	\$1,087	\$1,081	\$1,075	\$1,068	\$1,061	\$1,054	\$1,047	\$13,014

Note: Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 7.2242% x 1/12 (Jan-Jun) and Line 9 x 7.2242% x 1/12 (Jul-Dec). Based on ROE of 11.25% and weighted income tax rate of 38.575% (expansion factor of 1.632200).
Line 10 x 2.2101% x 1/12 (Jan-Jun) and Line 10 x 2.2101% x 1/12 (Jul-Dec).

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TAMPA ELECTRIC COMPANY
Reconciliation and Explanation of
Difference Between Filing and FPSC Audit
For Months January 2016 through December 2016

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, 2016 to December 31, 2016

Number of customers participating:
Residential Walk-Through: 6,902
Residential Customer Assisted: 1,017
Residential Computer Assisted: 9
Commercial/Industrial: 764
Commercial/Industrial Comprehensive: 4

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$2,398,219.

Program Progress Summary: Through this reporting period 342,873 customers have participated in on-site audits. Additionally, 124,095 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, 2016 to December 31, 2016

Number of customers participating: 1,293

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$357,056.

Program Progress Summary: Through this reporting period 121,823 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 ADS. The ADS is defined as the air handler, air ducts, return plenums, supply plenums and any connecting structure.

Program Accomplishments: January 1, 2016 to December 31, 2016

Number of customers participating: 1,293

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$272,052.

Program Progress Summary: Through this reporting period 99,222 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, 2016 to December 31, 2016

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

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, 2016 to December 31, 2016

In this reporting period Tampa Electric partnered with 2 local schools to present Energy Education to 453 students through 2 classroom presentations. Tampa Electric also continues to partner with Junior Achievement BizTown presenting Energy Education to 15,000 students representing 180 local schools. In addition, the company gave 18 presentations to civic organizations and distributed 461 energy saving kits to participating customers.

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$57,081.

Program Progress Summary: Through this reporting period Tampa Electric has partnered with 109 local schools to present Energy Education to 34,579 students. In addition, the company gave 137 presentations to civic organizations that generated 837 customer assisted audits and distributed 4,802 energy saving kits to participating customers.

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, 2016 to December 31, 2016

Number of customers participating: 403

Program Fiscal Expenditures: January 1, 2015 to December 31, 2016

Actual expenses were \$422,159.

Program Progress Summary: Through this reporting period 12,171 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, 2016 to December 31, 2016

Number of customers participating: 3,693

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$601,829.

Program Progress Summary: Through this reporting period 198,054 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, 2016 to December 31, 2016

Number of customers participating: 5,495

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$3,090,857.

Program Progress Summary: Through this reporting period 29,382 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, 2016 to December 31, 2016

Number of net customers participating: 518

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$3,267,974.

Program Progress Summary: Through this reporting period 4,431 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, 2016 to December 31, 2016

Number of customers participating: 5

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$1,635.

Program Progress Summary: Through this reporting period 190 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, 2016 to December 31, 2016

Number of customers participating: 1,417

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$543,406.

Program Progress Summary: Through this reporting period 11,724 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, 2015 to December 31, 2016

Number of net customers participating: -13,579

Program Fiscal Expenditures: January 1, 2015 to December 31, 2016

Actual expenses were \$1,681,796.

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, 2016 to December 31, 2016

Number of customers participating: 14

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$39,441.

Program Progress Summary: Through this reporting period 306 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, 2016 to December 31, 2016

Number of customers participating: 5

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$13,337.

Program Progress Summary: Through this reporting period 61 customers have participated.

Program Description and Progress

Program Title:	<u>Cogeneration</u>
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:	<u>January 1, 2016 to December 31, 2016</u> 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:	<u>January 1, 2016 to December 31, 2016</u> Actual expenses were \$71,997.
Program Progress Summary:	At the end of 2016, 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 448.2 MW. During 2016, the company received 237.28 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, 2016 to December 31, 2016

Number of customers participating: 2

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$229,069.

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

The two conservation value projects that were included in the company's annual DSM report for participation in 2016 included the Port of Tampa and Lamb Elementary School. The cost-effectiveness calculation title sheets for each of these projects was submitted within the company's 2015 True Up filing which was filed on May 2, 2016 within Docket 160002.

Port of Tampa: This project is a thermal energy storage ("TES") project. The cost-effectiveness analysis was performed on February 18, 2014. This conservation value project was installed on December 1, 2014. After a 90-day period Tampa Electric reviewed the load profile which indicated the TES was not operating as originally designed. Tampa Electric took this opportunity to assist the customer by bringing awareness, energy education and assisting the customer with the commissioning of the system as originally submitted in the design plan. Tampa Electric and the customer agreed to shift the 90-day period out to allow the customer a reasonable time to make all the necessary changes with the operation and programming of the system. The customer notified the company that the majority of issues were resolved by May 2015. Tampa Electric re-initiated the monitoring of the two chillers that were supporting the operation of the TES system. August 31, 2015 was the first day which showed the system was operating as designed. The company continued monitoring the system through the beginning of December 2015 which showed the system was continuously operating as designed on the application. Due to the requirement of the conservation program to demonstrate at least 90 days of successful operation, the facility received its first portion of the approved rebate in March 2016. The company continued to monitor this system through the summer peak period which showed the TES system was operating as originally designed one year after installation.

Lamb Elementary School: This project is a TES project. The cost-effectiveness analysis was performed on March 20, 2015. This project was installed on August 15, 2015. After a 90-day period Tampa Electric reviewed the load profile which indicated the thermal storage system was not operating as originally designed. Tampa Electric took this opportunity to assist the customer by bringing awareness, energy education and assisting the customer with the commissioning of the system as originally submitted in the design plan. The commissioning period was shifted several times which included many meetings of collaboration and guidance to assist the Hillsborough County School District in making the necessary adjustments to bring the TES system into full and optimized operation. These commissioning activities took place from the installation of the equipment to when the company started seeing in the data the fully operational load profile of the system that was concurrent with the company's peak in July 2016. During this period, the company documented and communicated to the Hillsborough County School District that while the profile of the TES system was good, the demand reduction the company was seeing was less than what was originally submitted in the application. The final rebate was paid based upon the actual demand reduction seen during the measurement and verification analysis.

Pursuant to Docket No. 900885-EG, Commission Order No. 24276, issued March 25, 1991 for the purpose of approving Tampa Electric Company's Conservation Value Program, the company is filing the attached table on the following page. Specifically, the table provides incentive payments as well as other program costs incurred during the January through December 2015 period. The table format was filed with the Commission on April 23, 1991 in response to the aforementioned order requesting the program participation standards.

Tampa Electric Company
 Conservation Value Program
 Customer Incentive Payment Schedule
 January 2016 - December 2016

Customer Data	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Plastipak²	\$86,853											
Average Summer Demand Savings:	595											
Average Winter Demand Savings:	683											
Annual Energy Savings:	1,674,516											
Hillsborough County Schools - Mintz²							\$39,380					
Average Summer Demand Savings:	286											
Average Winter Demand Savings:	0											
Annual Energy Savings:	65.9											
Hillsborough County Schools - Cannella²											\$32,868	
Average Summer Demand Savings:	253											
Average Winter Demand Savings:	0											
Annual Energy Savings:	-26											
Tampa Port Authority^{1&2}			\$12,750					\$12,750				
Average Summer Demand Savings:	162											
Average Winter Demand Savings:	0											
Annual Energy Savings:	9714											
Hillsborough County Schools - Lamb⁴											\$33,304	
Average Summer Demand Savings:	196											
Average Winter Demand Savings:	0											
Annual Energy Savings:	40											
Monthly Totals:	\$86,853	\$0	\$12,750	\$0	\$0	\$0	\$39,380	\$12,750	\$0	\$0	\$66,172	\$0

Total Incentives Paid for Period **\$217,905**
Total Other Expenses for Period: **\$11,164**
Total Incentives and Expenses for Period: **\$229,069**

Note 1: Project has achieved 90 days of successful operation, 1st half of rebate paid
 Note 2: Project has achieved one year of successful operation, final portion of rebate paid
 Note 3: Project awaiting final installation or has not achieved 90 days of successful operation, no portions of rebate paid
 Note 4: First and Final payments included together

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, 2016 to December 31, 2016

Number of customers participating: 25

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$275,381.

Program Progress Summary: Through this reporting period 219 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, 2016 to December 31, 2016

Number of customers participating: 9

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$7,088.

Program Progress Summary: Through this reporting period 2,298 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, 2016 to December 31, 2016

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$3,691,905.

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, 2016 to December 31, 2016

Number of customers participating: 96

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$27,320.

Program Progress Summary: Through this reporting period 11,030 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, 2016 to December 31, 2016

Number of customers participating: 1,225

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$21,261.

Program Progress Summary: Through this reporting period 1,310 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, 2016 to December 31, 2016

Net new customers participating: 0

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$15,863,745.

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: 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, 2016 to December 31, 2016

Number of customers participating: 159

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$345,236.

Program Progress Summary: Through this reporting period 1,944 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, 2016 to December 31, 2016

Number of customers participating: 60

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$61,888.

Program Progress Summary: Through this reporting period 213 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, 2016 to December 31, 2016

Number of customers participating: 12

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$15,139.

Program Progress Summary: Through this reporting period 212 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, 2016 to December 31, 2016

Net new customers participating: 0

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$12,546.

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, 2016 to December 31, 2016

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$162.

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, 2016 to December 31, 2016

Net new customers participating: 0

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$2,948,874.

Program Progress Summary: Through this reporting period there are 91 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, 2016 to December 31, 2016

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$1,058.

Program Progress Summary: Through this reporting period zero 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, 2016 to December 31, 2016

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$0.

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

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, 2016 to December 31, 2016

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$41.

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: 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.

Program Accomplishments: January 1, 2016 to December 31, 2016

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were \$2,932.

Program Progress Summary: For 2016, Tampa Electric began exploring several R&D projects. These projects were: partnering with the University of South Florida on Battery Storage and Electric Vehicles; Incorporation 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, 2016 to December 31, 2016

Year-end customers participating:	1,749
Number of net customers participating:	-111
Blocks of energy purchased:	2,600
One-time blocks of energy sold:	4,000

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016

Actual expenses were a credit of \$63,808.

Program Progress Summary: Through this reporting period 40,789 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, 2016 to December 31, 2016
N/A

Program Fiscal Expenditures: January 1, 2016 to December 31, 2016
Actual expenses were \$947,273.

Program Progress Summary: N/A