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August 18, 2017

**VIA: ELECTRONIC FILING**

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

Re: Conservation Cost Recovery Clause  
FPSC Docket No. 20170002-EG


Dear Ms. Stauffer:

Attached for filing in the above docket on behalf of Tampa Electric Company are the original of each of the following:

1. Petition of Tampa Electric Company.
2. Prepared Direct Testimony and Exhibit (MRR-2) of Mark R. Roche.

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

In re: Energy Conservation Cost     )  
Recovery Clause.                     )  
\_\_\_\_\_ )

DOCKET NO. 2017002-EG  
  
FILED: August 18, 2017

**PETITION OF TAMPA ELECTRIC COMPANY**

Tampa Electric Company ("Tampa Electric" or "the company"), hereby petitions the Commission for approval of the company's conservation cost recovery true-up and the cost recovery factors proposed for use during the period January through December 2018. In support thereof, the company says:

**Conservation Cost Recovery**

1. During the period January through December 2016, Tampa Electric incurred actual net conservation costs of \$37,312,065 plus a beginning true-up over-recovery of \$4,056,772 for a total of \$33,255,293. The amount collected through the Conservation Cost Recovery Clause was \$32,463,454. The true-up amount for January through December 2016, corrected from an initially calculated under-recovery of \$719,198, is an under-recovery of \$789,259 including interest. (See Exhibit (MRR-1); Schedule CT-1, Page 1 of 1 and CT-2, Page 1 of 4, filed May 1, 2017).

2. During the period January through December 2017, the company anticipates incurring expenses of \$39,821,436. For the period, the total net true-up under-recovery is estimated to be \$2,997,111 including interest. (See Exhibit (MRR-2); Schedule C-3, page 9 of 9).

3. For the forthcoming cost recovery period January through December 2018, Tampa Electric projects its total incremental conservation costs to be \$40,312,775. Tampa Electric's total true-up and projected expenditures for the projection period are estimated to be \$43,309,886 including true-up estimates for January through December 2017. Utilizing the rate design and cost

allocation as put forth in Docket No. 130040-EI, the required conservation cost recovery factors are as follows:

<u>Rate Schedule</u>	<u>Cost Recovery Factors (cents per kWh)</u>
RS	0.246
GS and CS	0.232
GSD Optional–Secondary	0.201
GSD Optional–Primary	0.199
GSD Optional–Subtransmission	0.197
LS-1	0.125

<u>Rate Schedule</u>	<u>Cost Recovery Factors (dollars per kW)</u>
GSD-Secondary	0.87
GSD-Primary	0.86
GSD-Subtransmission	0.85
SBF–Secondary	0.87
SBF–Primary	0.86
SBF–Subtransmission	0.85
IS–Secondary	0.67
IS-Primary	0.67
IS–Subtransmission	0.66

(See Exhibit (MRR-2); Schedule C-1, Page 1 of 1)

4. For the forthcoming cost recovery period, January through December 2018 the Contracted Credit Value by Voltage Level for the GSLM-2 and GSLM-3 rate riders will be:

**CCV dollars per kW by Voltage Level**

	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>
2018	9.56	9.46	9.37

(See Exhibit (MRR-2); Page 70).

5. For the forthcoming cost recovery period, January through December 2018, the residential Price Responsive Load Management ("RSVP-1") rates are as follows:

<u>Rate Tier</u>	<u>Cents per kWh</u>
P4	40.450
P3	6.879
P2	-1.055
P1	-2.988

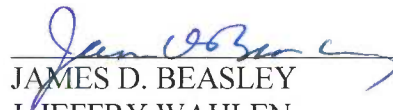
(See Exhibit (MRR-2); page 75)

6. Tampa Electric is not aware of any disputed issues of material fact relating to the matters addressed or the relief requested in this petition.

WHEREFORE, Tampa Electric Company requests the Commission's approval of the company's prior period conservation cost recovery true-up calculations and projected conservation cost recovery charges to be collected during the period January 1, 2018 through December 31, 2018.

DATED this 18<sup>th</sup> day of August, 2017.

Respectfully submitted,



JAMES D. BEASLEY

J. JEFFRY WAHLEN

Ausley McMullen

Post Office Box 391

Tallahassee, Florida 32302

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ATTORNEYS FOR TAMPA ELECTRIC COMPANY

## CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Petition, filed on behalf of Tampa Electric Company, has been furnished by electronic mail on this 18<sup>th</sup> day of August 2017 to the following:

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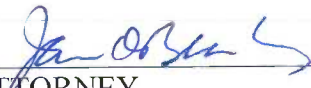
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\_\_\_\_\_  
ATTORNEY



**BEFORE THE**

**FLORIDA PUBLIC SERVICE COMMISSION**

**DOCKET NO. 20170002-EG**

**IN RE: CONSERVATION COST RECOVERY CLAUSE**

**TESTIMONY AND EXHIBIT**

**OF**

**MARK R. ROCHE**

**FILED: AUGUST 18, 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, 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.** Have you previously testified before the Florida Public  
10 Service Commission ("Commission")?

11  
12 **A.** Yes. I have testified before this Commission on  
13 conservation and load management activities, DSM plan  
14 approval dockets and other ECCR dockets.

15  
16 **Q.** What is the purpose of your testimony in this proceeding?

17  
18 **A.** The purpose of my testimony is to support the company's  
19 actual conservation costs incurred during the period  
20 January through December 2016, the actual/projected  
21 period January to December 2017, and the projected period  
22 January through December 2018. The projected 2018 ECCR  
23 factors have been calculated based on the current  
24 approved allocation methodology. Also, I will support  
25 the appropriate Contracted Credit Value ("CCV") for

1 participants in the General Service Industrial Load  
2 Management Riders ("GSLM-2" and "GSLM-3") for the period  
3 January through December 2018. In addition, I will  
4 support the appropriate residential variable pricing  
5 rates ("RSVP-1") for participants in the Residential  
6 Price Responsive Load Management Program for the period  
7 January through December 2018.

8  
9 **Q.** Did you prepare any exhibits in support of your  
10 testimony?

11  
12 **A.** Yes. Exhibit No. MRR-2 was prepared under my direction  
13 and supervision. This document includes Schedules C-1  
14 through C-5 and associated data which support the  
15 development of the conservation cost recovery factors for  
16 January through December 2018 using the current 12  
17 Coincident Peak ("CP") and 1/13 Average Demand ("AD")  
18 Factor allocation methodology.

19  
20 **Q.** Does the Exhibit No. MRR-2 meet the requirements of  
21 Florida Statute Rule 25-17.015(1)(b) which requires the  
22 projection filing to include the annual estimated/actual  
23 true-up filing showing eight months actual and four  
24 months projected commons costs, individual program costs  
25 and any revenues?

1     **A.**    No, based upon the due date of August 18, 2017 for this  
2            filing in Docket No. 20170002-EG it would be impossible  
3            for Tampa Electric to comply with having eight months  
4            actual and four months projected commons costs,  
5            individual program costs and any revenues.

6  
7     **Q.**    Did Tampa Electric communicate this issue to the  
8            Commission?

9  
10    **A.**    Yes, last year Tampa Electric through the company's joint  
11            petition with the other investor owned utilities filed  
12            for a two-year waiver of Rule 25-17.015(1)(b) to file the  
13            annual estimated/actual true up filings of six months  
14            actual and six months of projected data which received  
15            Commission approval in Order No. PSC-16-0493-PAA-EG.

16  
17    **Q.**    Did Tampa Electric submit the 2017 annual  
18            estimated/actual true up filings of six months actual and  
19            six months of projected data based upon this rule waiver?

20  
21    **A.**    Yes.

22  
23    **Q.**    Please describe the conservation program costs projected  
24            by Tampa Electric during the period January through  
25            December 2016.

1 **A.** For the period January through December 2016, Tampa  
2 Electric projected conservation program costs to be  
3 \$38,194,329. The Commission authorized collections to  
4 recover these expenses in Docket No. 20150002-EG, Order  
5 No. PSC-2015-0542-FOF-EG, issued November 23, 2015.

6  
7 **Q.** For the period January through December 2016, what were  
8 Tampa Electric's conservation costs and what was  
9 recovered through the ECCR Clause?

10

11 **A.** For the period January through December 2016, Tampa  
12 Electric incurred actual net conservation costs of  
13 \$37,312,065 plus a beginning true-up over-recovery of  
14 \$4,056,772 for a total of \$33,255,293. The amount  
15 collected in the ECCR Clause was \$32,463,454.

16

17 **Q.** What was the true-up amount?

18

19 **A.** The true-up amount for the period January through  
20 December 2016 was an under-recovery of \$789,258 including  
21 interest.

22

23 **Q.** This value is different than the calculation detailed in  
24 Exhibit No. MRR-1, Conservation Cost Recovery True Up,  
25 Pages 8 through 20, filed May 1, 2017 which had an under-

1 recovery of \$719,198 including interest as the value.  
2 Would you explain this difference?  
3

4 **A.** Yes, in preparation of this projection filing the company  
5 found two errors that occurred in the reporting of  
6 expenses for 2016. The first error found that the  
7 Renewable Energy Program's revenue and expenses had  
8 inadvertently been included in the CT-3 Page 2 of 3  
9 "Calculation of True-up and Interest Provisions". These  
10 program expenses and revenues should not be included in  
11 the deferred calculation because the Renewable Energy  
12 Program is a standalone program and is not funded out of  
13 the ECCR Clause. The second error was two charges  
14 associated with payroll and vehicles that were  
15 incorrectly charged to the Renewable Energy Program that  
16 were associated with other energy conservation programs.  
17

18 **Q.** Have these errors been corrected?  
19

20 **A.** Yes, the company will also submit a revised 2016 True-up  
21 file to the Commission.  
22

23 **Q.** Did these errors affect any rates that have been charged  
24 for the ECCR Clause?  
25

1 **A.** No, the projection for 2016 (prepared in 2015) did not  
2 contain this error nor did the projection for 2017  
3 (prepared in 2016). The correction only impacted the  
4 reporting for true-up that was filed on May 1, 2017.

5  
6 **Q.** On several of the "C" schedules within the Exhibit No.  
7 MRR-2, there are new line items that reduce the total  
8 conservation expenses by the Renewable Energy Program  
9 expenses. Would you explain why these new line items are  
10 inserted?

11  
12 **A.** Yes, the decision was made to present the Renewable  
13 Energy Program in a more transparent way. Since the  
14 Renewable Energy Program expenses and revenues are part  
15 of a standalone program which is not funded out of the  
16 ECCR Clause. The programs expenses and revenues will now  
17 be shown as a reduction to the conservation expenses to  
18 arrive at the total conservation expenses. One other  
19 change made to improve transparency was to include the  
20 details regarding the deferred balance (credits). The  
21 deferred balance shows how much of the excess program  
22 revenues have been accumulated awaiting investment in a  
23 solar photovoltaic array. This deferred balance can be  
24 found on the C-5 schedule for the Renewable Energy  
25 Program.

1     **Q.**    Please describe the conservation program costs projected  
2           to be incurred by Tampa Electric during the period  
3           January through December 2017?  
4

5     **A.**    The actual costs incurred by Tampa Electric through June  
6           2017 and projected for July through December 2017 are  
7           \$39,821,436. For the period, Tampa Electric anticipates  
8           an under-recovery in the ECCR Clause of \$2,997,111 which  
9           includes the 2016 true-up and interest. A summary of  
10          these costs and estimates are fully detailed in Exhibit  
11          No. MRR-2, Conservation Costs Projected, pages 24 through  
12          32.  
13

14    **Q.**    Has Tampa Electric proposed any new or modified DSM  
15          Programs for ECCR cost recovery for the period January  
16          through December 2018?  
17

18    **A.**    Yes, at this time Tampa Electric is seeking approval of a  
19          modification of the current Neighborhood Weatherization  
20          and Energy Education, Awareness and Agency Outreach  
21          programs by replacing the compact fluorescent lamps  
22          ("CFL") currently provided with a specific number of  
23          light emitting diode ("LED") lamps. This modification to  
24          these programs is being heard within Docket No. 20170149.  
25          If this modification is approved, the company would



1 transition to the new LED lamps once the supply of CFL  
2 lamps is exhausted and is projected to occur around the  
3 beginning of 2018.

4  
5 **Q.** Please summarize the proposed conservation costs for the  
6 period January through December 2018 and the annualized  
7 recovery factors based on a 12 CP and 1/13 AD basis  
8 applicable for the period January through December 2018?

9  
10 **A.** Tampa Electric has estimated that the total conservation  
11 costs (less program revenues) during the period will be  
12 \$40,312,775 plus true-up. Including true-up estimates,  
13 the January through December 2018 cost recovery factors  
14 allocated on a 12 CP and 1/13 AD basis for firm retail  
15 rate classes are as follows:

	<b>Cost Recovery Factors</b>
<b><u>Rate Schedule</u></b>	<b><u>(cents per kWh)</u></b>
19 RS	0.246
20 GS and CS	0.232
21 GSD Optional - Secondary	0.201
22 GSD Optional - Primary	0.199
23 GSD Optional - Subtransmission	0.197
24 LS-1	0.125

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**Cost Recovery Factors**

<u>Rate Schedule</u>	<u>(dollars per kW)</u>
GSD - Secondary	0.87
GSD - Primary	0.86
GSD - Subtransmission	0.85
SBF - Secondary	0.87
SBF - Primary	0.86
SBF - Subtransmission	0.85
IS - Secondary	0.67
IS - Primary	0.67
IS - Subtransmission	0.66

Exhibit No. MRR-2, Conservation Costs Projected, pages 17 through 23 contain the Commission prescribed forms which detail these estimates.

**Q.** Has Tampa Electric complied with the ECCR cost allocation methodology stated in Docket No. 930759-EG, Order No. PSC-93-1845-EG?

**A.** Yes, it has.

**Q.** Please explain why the incentive for GSLM-2 and GSLM-3 rate riders is included in your testimony?

1     **A.**    In Docket No. 990037-EI, Tampa Electric petitioned the  
2            Commission to close its non-cost-effective interruptible  
3            service rate schedules while initiating the provision of  
4            a cost-effective non-firm service through a new load  
5            management program. This program would be funded through  
6            the ECCR clause and the appropriate annual contracted  
7            credit value ("CCV") for customers would be submitted for  
8            Commission approval as part of the company's annual ECCR  
9            projection filing. Specifically, the level of the CCV  
10           would be determined by using the Rate Impact Measure  
11           ("RIM") Test contained in the Commission's cost-  
12           effectiveness methodology found in Rule 25-17.008, F.A.C.  
13           By using a RIM Test benefit-to-cost ratio of 1.2, the  
14           level of the CCV would be established on a per kilowatt  
15           ("kW") basis. This program and methodology for CCV  
16           determination was approved by the Commission in Docket  
17           No. 990037-EI, Order No. PSC-99-1778-FOF-EI, issued  
18           September 10, 1999.

19  
20     **Q.**    What is the appropriate CCV for customers who elect to  
21            take service under the GSLM-2 and GSLM-3 rate riders  
22            during the January through December 2018 period?

23  
24     **A.**    For the January through December 2018 period, the table  
25            below lists the CCV for 2018 by voltage level including

1 the past six years of CCV:  
2

3 **CCV dollars per kW by Voltage Level**

4

	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>
5 2018	9.56	9.46	9.37
6 2017	9.98	9.88	9.78
7 2016	8.81	8.72	8.63
8 2015	8.14	8.06	7.98
9 2014	7.72	7.64	7.57
10 2013	6.81	6.74	6.67
11 2012	9.82	9.72	9.62

12

13 If the 2018 assessment for need determination indicates  
14 the availability of new non-firm load, the CCV will be  
15 applied to new subscriptions for service under those rate  
16 riders. The application of the cost-effectiveness  
17 methodology to establish the CCV is found in the attached  
18 analysis, Exhibit No. MRR-2, Conservation Costs  
19 Projected, beginning on page 70 through 74.  
20

21 **Q.** Please explain why the RSVP-1 rates for Residential Price  
22 Responsive Load Management are in your testimony?  
23

24 **A.** In Docket No. 070056-EG, Tampa Electric's petition to  
25 allow its pilot residential price responsive load

1 management initiative to become permanent was approved by  
2 the Commission on August 28, 2007. This program is to be  
3 funded through the ECCR clause and the appropriate annual  
4 RSVP-1 rates for customers are to be submitted for  
5 Commission approval as part of the company's annual ECCR  
6 projection filing.

7  
8 **Q.** What are the appropriate Price Responsive Load Management  
9 rates ("RSVP-1") for customers who elect to take this  
10 service during the January through December 2018?  
11

12 **A.** The appropriate RSVP-1 rates during the January through  
13 December 2018 period for Tampa Electric's Price  
14 Responsive Load Management program based upon the  
15 company's 2018 residential base rates and the 2018  
16 projected clause amounts for ECCR, Fuel and Purchased  
17 Power Cost Recovery, Capacity Cost Recovery and the  
18 Environmental Cost Recovery are as follows:  
19

<u>Rate Tier</u>	<u>(Cents per kWh)</u>
P4	40.450
P3	6.879
P2	(1.055)
P1	(2.988)

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25

Page 75 contains the projected RSVP-1 rates for 2018.

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

**A.** Yes it does.

CONSERVATION COSTS  
PROJECTED

INDEX

<u>SCHEDULE</u>	<u>TITLE</u>	<u>PAGE</u>
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TAMPA ELECTRIC COMPANY  
 CALCULATION OF ENERGY & DEMAND ALLOCATION % BY RATE CLASS  
 JANUARY 2018 THROUGH DECEMBER 2018  
 Projected

	(1) AVG 12CP Load Factor at Meter (%)	(2) Projected Sales at Meter (MWh)	(3) Projected AVG 12 CP at Meter (Mw)	(4) Demand Loss Expansion Factor	(5) Energy Loss Expansion Factor	(6) Projected Sales at Generation (MWh)	(7) Projected AVG 12 CP at Generation (Mw)	(8) Percentage of Sales at Generation (%)	(9) Percentage of Demand at Generation (%)	(10) 12 CP & 1/13% Avg Demand Factor (%)
RS	54.90%	9,247,032	1,923	1.07913	1.05247	9,732,187	2,075	47.46%	56.37%	55.68%
GS,TS	60.53%	947,710	179	1.07913	1.05245	997,418	193	4.86%	5.24%	5.21%
GSD Optional	3.53%	373,897	55	1.07468	1.04884	392,159	59	1.91%	1.60%	1.62%
GSD, SBF Standard	74.34%	7,873,825	1,154	1.07468	1.04884	8,258,409	1,240	40.27%	33.69%	34.20%
IS	100.93%	911,875	103	1.02898	1.01784	928,138	106	4.53%	2.88%	3.01%
LS1	291.75%	189,780	7	1.07913	1.05247	199,737	8	0.97%	0.22%	0.28%
TOTAL		19,544,119	3,421			20,508,048	3,681	100%	100%	100%

- (1) AVG 12 CP load factor based on projected 2016 calendar data.
- (2) Projected MWH sales for the period Jan. 2017 thru Dec. 2017
- (3) Calculated: Col (2) / (8760\*Col (1)).
- (4) Based on 2016 projected demand losses.
- (5) Based on 2016 projected energy losses.
- (6) Col (2) \* Col (5).
- (7) Col (3) \* Col (4).
- (8) Col (6) / total for Col (6).
- (9) Col (7) / total for Col (7).
- (10) Col (8) \* 0.0769 + Col (9) \* 0.9231



C-1  
 Page 1 of 1

TAMPA ELECTRIC COMPANY  
 Energy Conservation Adjustment  
 Summary of Cost Recovery Clause Calculation  
 For Months January 2018 through December 2018

1. Total Incremental Cost (C-2, Page 1, Line 17)	40,312,775
2. Demand Related Incremental Costs	24,497,953
3. Energy Related Incremental Costs	15,814,822

RETAIL BY RATE CLASS

	<u>RS</u>	<u>GS,CS</u>	<u>GSD, SBF STANDARD</u>	<u>GSD OPTIONAL</u>	<u>IS</u>	<u>LS1</u>	<u>Total</u>
4. Demand Allocation Percentage	55.68%	5.21%	34.20%	1.62%	3.01%	0.28%	100.00%
5. Demand Related Incremental Costs (Total cost prorated based on demand allocation % above)	13,640,460	1,276,343	8,378,300	396,867	737,388	68,594	<u>24,497,953</u>
6. Demand Portion of End of Period True Up (O)/U Recovery Shown on Schedule C-3, Pg 6 (Allocation of D & E is based on the forecast period cost.)	<u>1,084,714</u>	<u>101,497</u>	<u>666,258</u>	<u>31,560</u>	<u>58,638</u>	<u>5,455</u>	<u>1,948,122</u>
7. Total Demand Related Incremental Costs	<u>14,725,175</u>	<u>1,377,841</u>	<u>9,044,558</u>	<u>428,426</u>	<u>796,027</u>	<u>74,049</u>	<u>26,446,075</u>
8. Energy Allocation Percentage	47.46%	4.86%	40.27%	1.91%	4.53%	0.97%	100.00%
9. Net Energy Related Incremental Costs	7,505,715	768,600	6,368,629	302,063	716,411	153,404	<u>15,814,822</u>
10. Energy Portion of End of Period True Up (O)/U Recovery Shown on Schedule C-3, Pg 6 (Allocation of D & E is based on the forecast period cost.)	<u>497,850</u>	<u>50,981</u>	<u>422,428</u>	<u>20,036</u>	<u>47,519</u>	<u>10,175</u>	<u>1,048,989</u>
11. Total Net Energy Related Incremental Costs	<u>8,003,565</u>	<u>819,581</u>	<u>6,791,057</u>	<u>322,099</u>	<u>763,931</u>	<u>163,579</u>	<u>16,863,811</u>
12. Total Incremental Costs (Line 5 + 9)	21,146,175	2,044,944	14,746,929	698,930	1,453,800	221,998	40,312,775
13. Total True Up (Over)/Under Recovery (Line 6 + 10) (Schedule C-3, Pg 6, Line 11) (Allocation of D & E is based on the forecast period cost.)	<u>1,582,565</u>	<u>152,478</u>	<u>1,088,686</u>	<u>51,595</u>	<u>106,158</u>	<u>15,630</u>	<u>2,997,111</u>
14. Total (Line 12 + 13)	<u>22,728,739</u>	<u>2,197,422</u>	<u>15,835,614</u>	<u>750,525</u>	<u>1,559,957</u>	<u>237,628</u>	<u>43,309,886</u>
15. Retail MWH Sales	9,247,032	947,710	7,873,825	373,897	911,875	189,780	19,544,119
16. Effective MWH at Secondary	9,247,032	947,710	7,873,825	373,897	911,875	189,780	19,544,119
17. Projected Billed KW at Meter	*	*	18,250,438	*	2,321,101	*	
18. Cost per KWH at Secondary (Line 14/Line 16)	0.24580	0.23187	*	0.20073	*	0.12521	
19. Revenue Tax Expansion Factor	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	
20. Adjustment Factor Adjusted for Taxes	0.2460	0.2320	*	0.2009	*	0.1253	
21. Conservation Adjustment Factor (cents/KWH)							
<b><u>RS, GS, CS, GSD Optional and LS1 Rates (cents/KWH) *</u></b>							
- Secondary	<u>0.246</u>	<u>0.232</u>		<u>0.201</u>		<u>0.125</u>	
- Primary				<u>0.199</u>			
- Subtransmission				<u>0.197</u>			
<b><u>GSD, SBF, IS Standard Rates (\$/KW) *</u></b>							
<u>Full Requirement</u>							
- Secondary	*	*	<u>0.87</u>	*	<u>0.67</u>	*	
- Primary	*	*	<u>0.86</u>	*	<u>0.67</u>	*	
- Subtransmission	*	*	<u>0.85</u>	*	<u>0.66</u>	*	

\* (ROUNDED TO NEAREST .001 PER KWH or KW)

TAMPA ELECTRIC COMPANY  
 Conservation Program Costs  
 Estimated For Months January 2018 through December 2018  
 ESTIMATED

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
12000353-12 Energy Audits (E)	225,353	219,871	221,114	216,459	216,255	222,923	247,862	252,064	257,988	228,959	216,173	214,886	2,743,727
12000381 Residential Ceiling Insulation	25,533	26,185	26,080	28,987	28,102	27,282	27,292	50,250	25,022	23,978	25,180	24,181	338,032
12000391 Residential Duct Repair	16,232	17,322	34,367	16,322	31,379	14,870	30,177	14,870	30,027	15,241	30,352	14,870	266,029
12000419 Residential Electronically Commutated Motor	0	0	0	0	0	0	0	0	220	0	0	0	220
12000375 Energy Education, Awareness and Agency	9,929	9,924	10,289	9,296	8,757	7,736	9,708	12,371	12,558	12,558	12,518	12,497	128,113
12000452 Energy Star Multi-Family	112	112	112	112	112	112	112	112	98,960	112	98,960	112	188,040
12000431 Energy Star for New Homes	76,450	76,445	77,450	84,960	86,565	84,960	76,450	84,960	76,450	78,945	76,585	77,980	958,600
12000348 Residential Heating and Cooling	63,448	50,943	53,589	53,509	49,808	57,018	62,998	62,998	48,732	48,727	49,748	48,678	651,176
12000425 Neighborhood Weatherization	546,560	532,828	533,686	540,611	533,086	533,611	540,686	533,611	533,686	540,611	533,686	533,611	6,438,873
12000433 Energy Planner	418,680	305,192	307,243	308,499	306,885	313,394	305,014	305,190	306,302	304,250	302,636	300,532	3,781,517
12000365 Residential Wall Insulation	0	206	0	259	207	207	207	207	207	259	207	207	2,173
12000367 Residential Window Replacement	40,179	40,099	49,028	49,033	49,103	57,415	57,420	39,558	39,558	39,638	39,828	39,828	540,687
12000351 Prime Time	2,411	2,411	2,411	2,411	2,411	2,411	2,411	2,411	2,411	2,411	2,411	2,411	28,932
12000397 Commercial Ceiling Insulation	1,410	118	1,410	118	1,410	118	1,410	118	1,410	118	118	118	7,876
12000411 Commercial Chiller	3,820	25	3,819	3,819	3,819	3,819	25	3,819	3,819	3,819	25	25	30,653
12000371 Cogeneration	4,064	3,534	3,887	3,711	4,064	3,711	3,887	4,064	3,534	4,064	3,887	3,711	46,118
12000389 Conservation Value	837	81,851	837	837	837	837	837	837	837	837	837	51,851	142,072
12000443 Cool Roof	23,391	11,721	35,082	35,082	23,391	11,721	11,721	11,721	11,721	23,391	23,391	11,721	234,014
12000429 Commercial Cooling	374	93	83	374	93	93	374	374	93	93	93	374	2,521
12000409 Demand Response	308,753	308,753	310,753	310,753	309,753	308,753	308,753	308,753	308,753	308,753	308,753	308,753	3,710,036
12000377 Commercial Duct Repair	1,223	0	1,223	0	2,446	2,446	0	0	1,223	0	1,223	2,446	12,230
12000441 Commercial ECM	1,669	585	585	585	585	585	585	585	1,625	585	585	1,669	11,268
12000379 Industrial Load Management (GLSM 2&3)	1,220,785	1,265,331	1,263,089	1,263,067	1,263,044	1,263,022	1,262,999	1,262,976	1,262,954	1,262,931	1,262,909	1,262,886	15,115,983
12000385 Lighting Conditioned Space	28,050	23,255	43,538	26,153	20,050	26,153	31,948	43,538	23,255	28,050	29,050	29,050	363,090
12003201 Lighting Non-Conditioned Space	12,809	4,805	3,203	9,609	4,805	6,406	8,008	9,609	8,008	6,406	4,805	4,805	83,278
12000413 Lighting Occupancy Sensors	1,776	25	25	955	1,776	1,076	1,076	1,898	955	955	25	955	11,497
12000383 CLIM (GLSM 1)	1,081	1,992	1,890	4,845	2,137	2,132	2,128	2,123	2,119	2,114	1,110	1,106	24,777
12000416 Refrigeration Anti-condensate Control	1,745	0	0	0	0	0	1,745	0	0	0	0	0	3,490
12000387 Standby Generator	267,364	270,364	268,864	268,864	268,864	268,864	270,364	270,364	271,864	270,364	270,364	270,364	3,238,868
12003202 Thermal Energy Storage	135	135	135	41,429	872	135	82,021	872	135	872	82,021	135	208,897
12000399 Commercial Wall Insulation	0	0	0	0	0	2,219	0	0	0	0	0	0	2,219
12000417 Commercial Water Heating	2,194	0	0	0	2,194	0	0	0	0	0	0	2,194	6,582
12000427 Conservation Research and Development	10,338	60,338	5,338	55,338	338	10,338	338	27,338	338	20,338	338	338	191,056
12000393 Renewable Energy Program	7,410	7,410	7,410	7,410	7,410	7,410	7,410	7,410	7,410	7,410	7,410	7,420	88,930
12000347 Common Expenses	55,461	52,988	56,607	54,923	114,607	63,323	104,686	56,607	63,532	57,797	55,369	54,221	790,121
Total All Programs	3,382,576	3,374,861	3,323,127	3,358,310	3,355,865	3,306,140	3,460,462	3,371,598	3,405,698	3,295,556	3,442,577	3,284,935	40,401,705
Less: Included in Base Rates	0	0	0	0	0	0	0	0	0	0	0	0	0
Recoverable Conserv. Expenses	3,382,576	3,374,861	3,323,127	3,358,310	3,355,865	3,306,140	3,460,462	3,371,598	3,405,698	3,295,556	3,442,577	3,284,935	40,401,705
Less Renewable Energy Expenses	7,410	7,410	7,410	7,410	7,410	7,410	7,410	7,410	7,410	7,410	7,410	7,420	88,930
Total Conservation Expenses	3,375,166	3,367,451	3,315,717	3,350,900	3,348,455	3,298,730	3,453,052	3,364,188	3,398,288	3,288,146	3,435,167	3,277,515	40,312,775
<b>Summary of Demand &amp; Energy</b>													
Energy	1,339,942	1,316,751	1,291,526	1,339,990	1,298,091	1,257,430	1,408,788	1,330,403	1,372,511	1,257,790	1,417,858	1,281,869	15,814,822
Demand	2,042,634	2,058,110	2,031,601	2,028,320	2,056,574	2,038,710	2,051,674	2,041,195	2,033,187	2,037,766	2,024,719	2,023,086	24,497,953
Total Recoverable Conserv. Expenses	3,382,576	3,372,861	3,323,127	3,368,310	3,355,665	3,306,140	3,460,462	3,371,598	3,405,698	3,295,556	3,442,577	3,284,935	40,312,775

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

Program Name	(A) Capital Investment	(B) Payroll & Benefits	(C) Materials & Supplies	(D) Outside Services	(E) Advertising	(F) Incentives	(G) Vehicles	(H) Other	(I) Program Revenues	(J) Total
12000353- Energy Audits (E)	0	1,812,490	9,250	210,277	490,000	0	171,920	49,790	0	2,743,727
12000381 Residential Ceiling Insulation	0	64,592	400	0	0	271,200	715	2,125	0	339,032
12000391 Residential Duct Repair	0	48,434	400	0	0	213,600	900	1,695	0	266,029
12000419 Residential Electronically Commutated Motors	0	0	0	105	0	115	0	0	0	220
12000375 Energy Education, Awareness and Agency Outreach	27,710	66,953	5,400	11,190	0	0	2,400	12,460	0	128,113
12004152 Energy Star Multi-Family	0	3,990	0	0	0	195,000	50	10	0	199,040
12000431 Energy Star for New Homes	0	32,070	0	0	2,000	850,000	600	73,930	0	956,600
12000349 Residential Heating and Cooling	0	108,606	0	0	0	540,000	600	1,970	0	651,176
12000425 Neighborhood Weatherization	0	255,084	339,060	879,423	0	4,961,256	2,400	1,650	0	6,436,873
12000433 Energy Planner	1,443,148	894,360	50,940	712,357	480,000	0	60,492	140,220	0	3,781,517
12000365 Residential Wall Insulation	0	393	0	0	0	1,760	20	0	0	2,173
12000367 Residential Window Replacement	0	63,317	0	0	0	477,125	0	245	0	540,687
12000351 Prime Time	0	9,732	0	18,000	0	0	0	1,200	0	28,932
12000397 Commercial Ceiling Insulation	0	2,776	0	0	0	4,500	600	0	0	7,876
12000411 Commercial Chiller	0	2,353	0	0	0	28,000	300	0	0	30,653
12000371 Cogeneration	0	46,118	0	0	0	0	0	0	0	46,118
12000389 Conservation Value	0	5,268	0	6,504	0	130,000	300	0	0	142,072
12000443 Cool Roof	0	33,414	0	0	0	200,000	600	0	0	234,014
12000429 Commercial Cooling	0	1,421	0	0	0	800	300	0	0	2,521
12000409 Demand Response	0	32,436	0	0	0	3,672,000	600	5,000	0	3,710,036
12000377 Commercial Duct Repair	0	4,730	0	0	0	7,500	0	0	0	12,230
12000441 Commercial ECM	0	2,768	0	0	0	8,400	100	0	0	11,268
12000379 Industrial Load Management (GLSM 2&3)	44,369	16,224	0	0	0	15,051,200	1,200	3,000	0	15,115,993
12000385 Lighting Conditioned Space	0	99,690	0	0	0	262,500	600	300	0	363,090
12003201 Lighting Non-Conditioned Space	0	40,078	0	0	0	43,200	0	0	0	83,278
12000413 Lighting Occupancy Sensors	0	2,797	0	0	0	8,400	300	0	0	11,497
12000383 CLIM (GLSM 1)	7,778	9,999	0	0	0	7,000	0	0	0	24,777
12000415 Refrigeration Anti-condensate Control	0	440	0	0	0	3,000	50	0	0	3,490
12000387 Standby Generator	0	89,208	0	94,800	0	3,049,500	360	3,000	0	3,236,868
12003202 Thermal Energy Storage	0	5,637	0	2,960	0	200,000	300	0	0	208,897
12000399 Commercial Well Insulation	0	169	0	0	0	2,000	50	0	0	2,219
12000417 Commercial Water Heating	0	507	0	0	0	6,000	75	0	0	6,582
12000427 Conservation Research and Development	0	4,056	0	187,000	0	0	0	0	0	191,056
12000393 Renewable Energy Program	0	32,436	0	200,000	15,000	0	0	1,000	(159,506)	86,930
12000347 Common Expenses	0	497,761	0	208,000	0	0	0	84,360	0	790,121
Total All Programs	1,523,005	4,295,297	405,450	2,530,616	997,000	30,194,056	245,692	381,955	(159,506)	40,401,705
Less Renewable Energy Expenses	0	32,436	0	200,000	15,000	0	0	1,000	(159,506)	86,930
Total Conservation Expenses	1,523,005	4,260,861	405,450	2,330,616	972,000	30,194,056	245,692	380,955	0	40,312,774
<b>Summary of Demand &amp; Energy</b>										
Energy	749,284	3,405,173	379,990	1,664,137	732,000	8,414,356	213,426	256,465	0	15,814,821
Demand	773,721	955,688	25,470	966,479	240,000	21,779,700	32,406	124,490	0	24,497,953
Total All Programs	1,523,005	4,260,861	405,460	2,330,616	972,000	30,194,056	245,692	380,955	0	40,312,774

TAMPA ELECTRIC COMPANY  
Schedule of Capital Investment, Depreciation and Return  
Estimated For Months January 2018 through December 2018  
PRICE RESPONSIVE LOAD MANAGEMENT

Beginning of Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1. Investment	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	1,020,000
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	6,071,628	6,147,966	6,220,725	6,181,039	6,080,349	6,169,242	6,099,989	6,211,729	6,249,519	5,975,213	5,895,475	5,914,687	
4. Depreciation Expense	<u>100,571</u>	<u>101,830</u>	<u>103,072</u>	<u>103,348</u>	<u>102,178</u>	<u>102,080</u>	<u>102,244</u>	<u>102,598</u>	<u>103,844</u>	<u>101,873</u>	<u>98,922</u>	<u>98,418</u>	<u>1,220,978</u>
5. Cumulative Investment	5,996,848	6,071,628	6,220,725	6,181,039	6,080,349	6,169,242	6,099,989	6,211,729	6,249,519	5,975,213	5,895,475	5,914,687	5,914,687
6. Less: Accumulated Depreciation	3,369,408	<u>3,459,759</u>	<u>3,643,758</u>	<u>3,622,420</u>	<u>3,538,908</u>	<u>3,644,881</u>	<u>3,592,872</u>	<u>3,722,210</u>	<u>3,778,844</u>	<u>3,521,411</u>	<u>3,455,595</u>	<u>3,488,225</u>	<u>3,488,225</u>
7. Net Investment	<u>2,611,869</u>	<u>2,595,039</u>	<u>2,576,967</u>	<u>2,558,619</u>	<u>2,541,441</u>	<u>2,524,361</u>	<u>2,507,117</u>	<u>2,489,519</u>	<u>2,470,675</u>	<u>2,453,802</u>	<u>2,439,880</u>	<u>2,426,462</u>	<u>2,426,462</u>
8. Average Investment	2,619,655	2,603,454	2,586,003	2,567,793	2,550,030	2,532,901	2,515,739	2,498,318	2,480,097	2,462,239	2,446,841	2,433,171	
9. Return on Average Investment - Equity Component	15,290	15,195	15,094	14,987	14,884	14,784	14,684	14,582	14,475	14,371	14,281	14,202	176,829
10. Return on Average Investment - Debt Component	<u>3,921</u>	<u>3,896</u>	<u>3,870</u>	<u>3,843</u>	<u>3,816</u>	<u>3,791</u>	<u>3,765</u>	<u>3,739</u>	<u>3,712</u>	<u>3,685</u>	<u>3,662</u>	<u>3,641</u>	<u>45,341</u>
11. Total Depreciation and Return	<u>119,782</u>	<u>120,921</u>	<u>122,036</u>	<u>122,178</u>	<u>120,878</u>	<u>120,655</u>	<u>120,693</u>	<u>120,919</u>	<u>122,031</u>	<u>119,929</u>	<u>116,865</u>	<u>116,261</u>	<u>1,443,148</u>

NOTES:

Note: Depreciation expense is calculated using a useful life of 60 months.  
Line 9 x 7.0040% x 1/12 (Jan-Dec). Based on ROE of 10.25% and weighted income tax rate of 38.575% (expansion factor of 1.632200).  
Line 10 x 1.7959% x 1/12 (Jan-Dec).

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

Beginning of Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1. Investment	65,000	65,000	0	0	0	0	0	0	0	0	0	0	130,000
2. Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0
3. Depreciation Base	120,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126
4. Depreciation Expense	<u>1,460</u>	<u>2,544</u>	<u>3,085</u>	<u>3,085</u>	<u>3,085</u>	<u>3,085</u>	<u>3,085</u>	<u>3,085</u>	<u>3,085</u>	<u>3,085</u>	<u>3,085</u>	<u>3,085</u>	<u>34,854</u>
5. Cumulative Investment	120,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126	185,126
6. Less: Accumulated Depreciation	<u>51,103</u>	<u>53,647</u>	<u>56,732</u>	<u>59,817</u>	<u>62,902</u>	<u>65,987</u>	<u>69,072</u>	<u>72,157</u>	<u>75,242</u>	<u>78,327</u>	<u>81,412</u>	<u>84,497</u>	<u>84,497</u>
7. Net Investment	<u>69,023</u>	<u>131,479</u>	<u>128,394</u>	<u>125,309</u>	<u>122,224</u>	<u>119,139</u>	<u>116,054</u>	<u>112,969</u>	<u>109,884</u>	<u>106,799</u>	<u>103,714</u>	<u>100,629</u>	<u>100,629</u>
8. Average Investment	37,253	100,251	129,937	126,852	123,767	120,682	117,597	114,512	111,427	108,342	105,257	102,172	7,572
9. Return on Average Investment - Equity Component	217	585	758	740	722	704	686	668	650	632	614	596	7,572
10. Return on Average Investment - Debt Component	<u>56</u>	<u>150</u>	<u>194</u>	<u>190</u>	<u>185</u>	<u>181</u>	<u>176</u>	<u>171</u>	<u>167</u>	<u>162</u>	<u>158</u>	<u>153</u>	<u>1,943</u>
11. Total Depreciation and Return	<u>1,733</u>	<u>3,279</u>	<u>4,037</u>	<u>4,015</u>	<u>3,992</u>	<u>3,970</u>	<u>3,947</u>	<u>3,924</u>	<u>3,902</u>	<u>3,879</u>	<u>3,857</u>	<u>3,834</u>	<u>44,369</u>

NOTES:

Depreciation expense is calculated using a useful life of 60 months.  
Line 9 x 7.0040% x 1/12 (Jan-Dec). Based on ROE of 10.25% and weighted income tax rate of 38.575% (expansion factor of 1.632200).  
Line 10 x 1.7959% x 1/12 (Jan-Dec).

TAMPA ELECTRIC COMPANY  
Schedule of Capital Investment, Depreciation and Return  
Estimated For Months January 2018 through December 2018  
ENERGY EDUCATION AWARENESS AND AGENCY OUTREACH

Beginning of Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1. Investment	0	0	0	0	0	0	140,000	0	0	0	0	0	140,000
2. Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0
3. Depreciation Base	35,000	35,000	35,000	35,000	35,000	35,000	175,000	175,000	175,000	175,000	175,000	175,000	1,750,000
4. Depreciation Expense	<u>583</u>	<u>583</u>	<u>583</u>	<u>583</u>	<u>583</u>	<u>583</u>	<u>1,750</u>	<u>2,917</u>	<u>2,917</u>	<u>2,917</u>	<u>2,917</u>	<u>2,917</u>	<u>19,833</u>
5. Cumulative Investment	35,000	35,000	35,000	35,000	35,000	35,000	175,000	175,000	175,000	175,000	175,000	175,000	1,750,000
6. Less: Accumulated Depreciation	<u>3,790</u>	<u>4,373</u>	<u>4,956</u>	<u>5,539</u>	<u>6,122</u>	<u>6,705</u>	<u>8,455</u>	<u>11,372</u>	<u>14,289</u>	<u>17,206</u>	<u>20,123</u>	<u>23,040</u>	<u>230,440</u>
7. Net Investment	<u>31,210</u>	<u>30,627</u>	<u>30,044</u>	<u>29,461</u>	<u>28,878</u>	<u>28,295</u>	<u>166,545</u>	<u>163,628</u>	<u>160,711</u>	<u>157,794</u>	<u>154,877</u>	<u>151,960</u>	<u>1,519,600</u>
8. Average Investment	31,502	30,919	30,336	29,753	29,170	28,587	97,420	165,087	162,170	159,253	156,336	153,419	1,534,419
9. Return on Average Investment - Equity Component	184	180	177	174	170	167	569	964	947	930	912	895	6,269
10. Return on Average Investment - Debt Component	<u>47</u>	<u>46</u>	<u>45</u>	<u>45</u>	<u>44</u>	<u>43</u>	<u>146</u>	<u>247</u>	<u>243</u>	<u>238</u>	<u>234</u>	<u>230</u>	<u>1,608</u>
11. Total Depreciation and Return	<u>814</u>	<u>809</u>	<u>805</u>	<u>802</u>	<u>797</u>	<u>793</u>	<u>2,465</u>	<u>4,128</u>	<u>4,107</u>	<u>4,085</u>	<u>4,063</u>	<u>4,042</u>	<u>27,710</u>

NOTES:

Depreciation expense is calculated using a useful life of 60 months.  
Line 9 x 7.0040% x 1/12 (Jan-Dec). Based on ROE of 10.25% and weighted income tax rate of 38.575% (expansion factor of 1.632200).  
Line 10 x 1.7959% x 1/12 (Jan-Dec).

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

Beginning of Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1. Investment	0	8,400	5,600	22,400	0	0	0	0	0	0	0	0	36,400
2. Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0
3. Depreciation Base	0	8,400	14,000	36,400	36,400	36,400	36,400	36,400	36,400	36,400	36,400	36,400	36,400
4. Depreciation Expense	0	<u>70</u>	<u>187</u>	<u>420</u>	<u>607</u>	<u>607</u>	<u>607</u>	<u>607</u>	<u>607</u>	<u>607</u>	<u>607</u>	<u>607</u>	<u>5,533</u>
5. Cumulative Investment	0	8,400	14,000	36,400	36,400	36,400	36,400	36,400	36,400	36,400	36,400	36,400	36,400
6. Less: Accumulated Depreciation	0	<u>70</u>	<u>257</u>	<u>677</u>	<u>1,284</u>	<u>1,891</u>	<u>2,498</u>	<u>3,105</u>	<u>3,712</u>	<u>4,319</u>	<u>4,926</u>	<u>5,533</u>	<u>5,533</u>
7. Net Investment	0	<u>8,330</u>	<u>13,743</u>	<u>35,723</u>	<u>35,116</u>	<u>34,509</u>	<u>33,902</u>	<u>33,295</u>	<u>32,688</u>	<u>32,081</u>	<u>31,474</u>	<u>30,867</u>	<u>30,867</u>
8. Average Investment	0	4,165	11,037	24,733	35,420	34,813	34,206	33,599	32,992	32,385	31,778	31,171	1,787
9. Return on Average Investment - Equity Component	0	24	64	144	207	203	200	196	193	189	185	182	1,787
10. Return on Average Investment - Debt Component	0	<u>6</u>	<u>17</u>	<u>37</u>	<u>53</u>	<u>52</u>	<u>51</u>	<u>50</u>	<u>49</u>	<u>48</u>	<u>48</u>	<u>47</u>	<u>458</u>
11. Total Depreciation and Return	0	<u>100</u>	<u>268</u>	<u>601</u>	<u>867</u>	<u>862</u>	<u>858</u>	<u>853</u>	<u>849</u>	<u>844</u>	<u>840</u>	<u>836</u>	<u>7,778</u>

NOTES:

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

Line 9 x 7.0040% x 1/12 (Jan-Dec). Based on ROE of 10.25% and weighted income tax rate of 38.575% (expansion factor of 1.632200).

Line 10 x 1.7959% x 1/12 (Jan-Dec).

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TAMPA ELECTRIC COMPANY  
Conservation Program Costs

Actual for Months January 2017 through June 2017  
Projected for Months July 2017 through December 2017

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicle	Other	Program Revenues	Total
12000353-1; Energy Audits (E)										
2 Actual	0	648,544	16,541	16,755	290,961	0	39,020	18,809	0	1,030,630
3 Projected	0	<u>961,820</u>	<u>6,315</u>	<u>179,108</u>	<u>550,047</u>	0	<u>65,858</u>	<u>17,370</u>	0	<u>1,780,518</u>
4 Total	0	1,610,364	22,856	195,863	841,008	0	104,878	36,179	0	2,811,148
12000381 Residential Ceiling Insulation										
6 Actual	0	42,338	67	0	0	126,924	1,383	1,098	0	171,810
7 Projected	0	<u>28,336</u>	<u>250</u>	0	0	<u>99,840</u>	<u>2,500</u>	<u>40</u>	0	<u>130,966</u>
8 Total	0	70,674	317	0	0	226,764	3,883	1,138	0	302,776
12000391 Residential Duct Repair										
10 Actual	0	25,922	67	0	0	81,165	1,206	15	0	108,375
11 Projected	0	<u>15,124</u>	<u>225</u>	0	0	<u>89,250</u>	<u>2,680</u>	<u>80</u>	0	<u>107,359</u>
12 Total	0	41,046	292	0	0	170,415	3,886	95	0	215,734
12000419 Residential Electronically Commutated Motors										
14 Actual	0	36	0	0	0	0	0	0	0	36
15 Projected	0	0	0	105	0	115	0	0	0	<u>220</u>
16 Total	0	36	0	105	0	115	0	0	0	256
12000375 Energy Education, Awareness and Agency Outreach										
18 Actual	0	16,384	14,127	4,620	0	0	637	8,741	0	44,509
19 Projected	<u>4,554</u>	<u>32,008</u>	<u>650</u>	<u>9,534</u>	0	0	<u>22,400</u>	<u>5,320</u>	0	<u>74,466</u>
20 Total	4,554	48,392	14,777	14,154	0	0	23,037	14,061	0	118,975
12004152 Energy Star Multi-Family										
Actual	0	0	0	0	0	0	0	0	0	0
Projected	0	<u>406</u>	0	0	0	<u>97,500</u>	<u>25</u>	<u>200</u>	0	<u>98,131</u>
Total	0	406	0	0	0	97,500	25	200	0	98,131
12000431 Energy Star for New Homes										
22 Actual	0	14,979	0	0	0	242,250	298	2,190	0	259,717
23 Projected	0	<u>14,502</u>	0	<u>369</u>	0	<u>255,000</u>	<u>450</u>	<u>3,300</u>	0	<u>273,621</u>
24 Total	0	29,481	0	369	0	497,250	748	5,490	0	533,338
12000349 Residential Heating and Cooling										
26 Actual	0	42,013	2,458	0	0	222,750	335	137	0	267,693
27 Projected	0	<u>30,411</u>	0	<u>5,358</u>	0	<u>236,250</u>	<u>350</u>	0	0	<u>272,369</u>
28 Total	0	72,424	2,458	5,358	0	459,000	685	137	0	540,062
12000425 Neighborhood Weatherization										
30 Actual	0	83,493	168,618	326,969	0	920,888	5,545	2,562	0	1,508,075
31 Projected	0	<u>50,529</u>	<u>282,228</u>	<u>468,505</u>	0	<u>2,725,380</u>	<u>5,600</u>	<u>2,025</u>	0	<u>3,534,267</u>
32 Total	0	134,022	450,846	795,474	0	3,646,268	11,145	4,587	0	5,042,342
12000433 Energy Planner										
34 Actual	711,255	412,386	5,847	764,928	113,971	0	30,490	149,023	0	2,187,900
35 Projected	<u>704,644</u>	<u>599,508</u>	<u>12,000</u>	<u>482,948</u>	<u>132,000</u>	0	<u>30,246</u>	<u>230,790</u>	0	<u>2,192,136</u>
36 Total	1,415,899	1,011,894	17,847	1,247,876	245,971	0	60,736	379,813	0	4,380,036
12000365 Residential Wall Insulation										
38 Actual	0	95	0	0	0	155	3	0	0	253
39 Projected	0	<u>56</u>	0	0	0	<u>528</u>	<u>30</u>	0	0	<u>614</u>
40 Total	0	151	0	0	0	683	33	0	0	867
12000367 Residential Window Replacement										
42 Actual	0	39,828	0	0	0	271,826	354	1,247	0	313,255
43 Projected	0	<u>28,993</u>	0	0	0	<u>273,600</u>	<u>415</u>	<u>5</u>	0	<u>303,013</u>
44 Total	0	68,821	0	0	0	545,426	769	1,252	0	616,268
12000421 Residential HVAC Re-Commissioning										
46 Actual	0	0	0	0	0	0	0	0	0	0
47 Projected	0	0	0	0	0	0	0	0	0	0
48 Total	0	0	0	0	0	0	0	0	0	0
12000373 Residential Window Film										
50 Actual	0	0	0	0	0	0	0	0	0	0
51 Projected	0	0	0	0	0	0	0	0	0	0
52 Total	0	0	0	0	0	0	0	0	0	0
12000351 Prime Time										
54 Actual	0	4,388	0	10,496	0	0	0	0	0	14,884
55 Projected	0	<u>4,458</u>	0	<u>10,500</u>	0	0	0	<u>450</u>	0	<u>15,408</u>
56 Total	0	8,846	0	20,996	0	0	0	450	0	30,292
12000397 Commercial Ceiling Insulation										
58 Actual	0	585	0	0	0	645	26	0	0	1,256
59 Projected	0	<u>1,312</u>	0	0	0	<u>2,700</u>	<u>100</u>	0	0	<u>4,112</u>
60 Total	0	1,897	0	0	0	3,345	126	0	0	5,368
12000411 Commercial Chiller										
62 Actual	0	2,036	0	0	0	20,479	11	0	0	22,526
63 Projected	0	<u>784</u>	0	0	0	<u>10,500</u>	<u>100</u>	0	0	<u>11,384</u>
64 Total	0	2,820	0	0	0	30,979	111	0	0	33,910



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TAMPA ELECTRIC COMPANY  
 Conservation Program Costs

Actual for Months January 2017 through June 2017  
 Projected for Months July 2017 through December 2017

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicle	Other	Program Revenues	Total
TAMPA ELECTRIC COMPANY Conservation Program Costs										
Actual for Months January 2017 through June 2017 Projected for Months July 2017 through December 2017										
12000371 Cogeneration										
66 Actual	0	33,915	0	0	0	0	164	8,061	0	42,140
67 Projected	0	<u>22,303</u>	0	0	0	0	0	0	0	<u>22,303</u>
68 Total	0	56,218	0	0	0	0	164	8,061	0	64,443
12000389 Conservation Value										
70 Actual	0	1,150	0	0	0	0	0	0	0	1,150
71 Projected	0	<u>5,475</u>	0	<u>3,252</u>	0	<u>60,000</u>	<u>150</u>	0	0	<u>68,877</u>
72 Total	0	6,625	0	3,252	0	60,000	150	0	0	70,027
12000443 Cool Roof										
74 Actual	0	10,771	432	0	0	157,108	24	0	0	168,335
75 Projected	0	<u>16,707</u>	0	0	0	<u>87,700</u>	<u>300</u>	0	0	<u>104,707</u>
76 Total	0	27,478	432	0	0	244,808	324	0	0	273,042
12000429 Commercial Cooling										
78 Actual	0	2,812	0	0	0	0	0	0	0	2,812
79 Projected	0	<u>650</u>	0	0	0	<u>320</u>	<u>150</u>	0	0	<u>1,120</u>
80 Total	0	3,462	0	0	0	320	150	0	0	3,932
12000409 Demand Response										
82 Actual	0	9,225	0	1,530,000	0	0	110	3,504	0	1,542,839
83 Projected	0	<u>16,218</u>	0	0	0	<u>1,836,000</u>	<u>300</u>	0	0	<u>1,852,518</u>
84 Total	0	25,443	0	1,530,000	0	1,836,000	410	3,504	0	3,395,357
12000377 Commercial Duct Repair										
86 Actual	0	2,291	0	0	0	0	0	0	0	2,291
87 Projected	0	<u>568</u>	0	0	0	<u>900</u>	<u>75</u>	0	0	<u>1,543</u>
88 Total	0	2,859	0	0	0	900	75	0	0	3,834
12000441 Commercial ECM										
90 Actual	0	2,442	0	0	0	2,060	0	0	0	4,502
91 Projected	0	<u>1,750</u>	0	<u>500</u>	0	<u>4,225</u>	<u>50</u>	0	0	<u>6,525</u>
92 Total	0	4,192	0	500	0	6,285	50	0	0	11,027
12000379 Industrial Load Management (GLSM 2&3)										
94 Actual	6,136	7,683	97,516	11,763	0	8,511,919	18,881	2,793	0	8,656,691
95 Projected	<u>5,877</u>	<u>8,112</u>	0	0	0	<u>7,305,600</u>	<u>600</u>	0	0	<u>7,320,189</u>
96 Total	12,013	15,795	97,516	11,763	0	15,817,519	19,481	2,793	0	15,976,880
12000385 Lighting Conditioned Space										
98 Actual	0	31,483	678	0	0	215,784	648	2,074	0	250,667
99 Projected	0	<u>54,231</u>	0	0	0	<u>192,798</u>	<u>300</u>	<u>150</u>	0	<u>247,479</u>
100 Total	0	85,714	678	0	0	408,582	948	2,224	0	498,146
12003201 Lighting Non-Conditioned Space										
102 Actual	0	19,038	0	0	0	66,542	276	54	0	85,910
103 Projected	0	<u>20,841</u>	0	0	0	<u>47,502</u>	0	0	0	<u>68,343</u>
104 Total	0	39,879	0	0	0	114,044	276	54	0	154,253
12000413 Lighting Occupancy Sensors										
106 Actual	0	0	0	0	0	17,600	11	0	0	17,611
107 Projected	0	<u>703</u>	0	0	0	<u>2,800</u>	<u>50</u>	0	0	<u>3,553</u>
108 Total	0	703	0	0	0	20,400	61	0	0	21,164
12000383 CILM (GLSM 1)										
110 Actual	0	0	0	0	0	2,790	0	0	0	2,790
111 Projected	0	0	0	0	0	<u>4,000</u>	0	0	0	<u>4,000</u>
112 Total	0	0	0	0	0	6,790	0	0	0	6,790
12000415 Refrigeration Anti-condensate Control										
114 Actual	0	96	0	0	0	0	19	0	0	115
115 Projected	0	<u>220</u>	0	0	0	<u>1,500</u>	<u>25</u>	0	0	<u>1,745</u>
116 Total	0	316	0	0	0	1,500	44	0	0	1,860
12000387 Standby Generator										
118 Actual	0	18,898	146	0	0	1,459,627	34	0	0	1,478,705
119 Projected	0	<u>82,452</u>	<u>75,000</u>	<u>303,700</u>	0	<u>1,510,000</u>	<u>180</u>	0	0	<u>1,971,332</u>
120 Total	0	101,350	75,146	303,700	0	2,969,627	214	0	0	3,450,037
12003202 Thermal Energy Storage										
122 Actual	0	529	0	0	0	10,100	2	0	0	10,631
123 Projected	0	<u>3,002</u>	0	<u>592</u>	0	<u>90,100</u>	<u>50</u>	0	0	<u>93,744</u>
124 Total	0	3,531	0	592	0	100,200	52	0	0	104,375
12000399 Commercial Wall Insulation										
126 Actual	0	0	0	0	0	0	0	0	0	0
127 Projected	0	0	0	0	0	0	0	0	0	0
128 Total	0	0	0	0	0	0	0	0	0	0

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TAMPA ELECTRIC COMPANY  
 Conservation Program Costs

Actual for Months January 2017 through June 2017  
 Projected for Months July 2017 through December 2017

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicle	Other	Program Revenues	Total
TAMPA ELECTRIC COMPANY Conservation Program Costs										
Actual for Months January 2017 through June 2017 Projected for Months July 2017 through December 2017										
12000417 Commercial Water Heating										
130 Actual	0	148	0	0	0	0	0	0	0	148
131 Projected	0	<u>169</u>	0	0	0	<u>2,000</u>	<u>25</u>	0	0	<u>2,194</u>
132 Total	0	317	0	0	0	2,000	25	0	0	2,342
12000427 Conservation Research and Development										
134 Actual	0	2,521	0	0	0	0	0	0	0	2,521
135 Projected	0	<u>4,056</u>	0	<u>67,036</u>	0	<u>22,964</u>	<u>400</u>	<u>3,300</u>	0	<u>97,756</u>
136 Total	0	6,577	0	67,036	0	22,964	400	3,300	0	100,277
12000393 Renewable Energy Program										
138 Actual	0	2,814	0	7,895	0	0	0	970	(78,575)	(66,896)
139 Projected	0	<u>16,218</u>	0	<u>300,000</u>	0	0	0	0	<u>(76,374)</u>	<u>239,844</u>
140 Total	0	19,032	0	307,895	0	0	0	970	(154,949)	172,948
12000403-1; Renewable Energy Systems Initiative										
142 Actual	0	0	0	0	0	0	0	0	0	0
143 Projected	0	0	0	0	0	0	0	0	0	0
144 Total	0	0	0	0	0	0	0	0	0	0
12000437 Commercial Exit Signs										
142 Actual	0	0	0	0	0	0	0	0	0	0
143 Projected	0	0	0	0	0	0	0	0	0	0
144 Total	0	0	0	0	0	0	0	0	0	0
12000439 Commercial HVAC Re-commissioning										
142 Actual	0	0	0	0	0	0	0	0	0	0
143 Projected	0	0	0	0	0	0	0	0	0	0
144 Total	0	0	0	0	0	0	0	0	0	0
12000401 Commercial Motors										
142 Actual	0	0	0	0	0	0	0	0	0	0
143 Projected	0	0	0	0	0	0	0	0	0	0
144 Total	0	0	0	0	0	0	0	0	0	0
12000435 Commercial Roof Insulation										
142 Actual	0	0	0	0	0	0	0	0	0	0
143 Projected	0	0	0	0	0	0	0	0	0	0
144 Total	0	0	0	0	0	0	0	0	0	0
12000395 Commercial Window Film										
142 Actual	0	0	0	0	0	0	0	0	0	0
143 Projected	0	0	0	0	0	0	0	0	0	0
144 Total	0	0	0	0	0	0	0	0	0	0
12000347 Common Expenses										
142 Actual	0	325,924	615	73,300	10,820	0	503	83,312	0	494,474
143 Projected	0	<u>307,643</u>	0	<u>111,390</u>	0	0	<u>200</u>	<u>40,442</u>	0	<u>459,675</u>
144 Total	0	633,567	615	184,690	10,820	0	703	123,754	0	954,149
137 Total All Programs	<u>1,432,466</u>	<u>4,133,926</u>	<u>683,780</u>	<u>4,689,623</u>	<u>1,097,799</u>	<u>27,192,184</u>	<u>233,564</u>	<u>587,862</u>	<u>(154,949)</u>	<u>39,994,386</u>
Less Renewable Energy	0	<u>19,032</u>	0	<u>307,895</u>	0	0	0	<u>970</u>	<u>(154,949)</u>	<u>172,948</u>
Total Conservation Expense	<u>1,432,466</u>	<u>4,114,894</u>	<u>683,780</u>	<u>4,381,728</u>	<u>1,097,799</u>	<u>27,192,184</u>	<u>233,564</u>	<u>586,892</u>	0	<u>39,821,438</u>

TAMPA ELECTRIC COMPANY  
 Schedule of Capital Investment, Depreciation and Return  
 Actual for Months January 2017 through June 2017  
 Projected for Months July 2017 through December 2017

PRICE RESPONSIVE LOAD MANAGEMENT

	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
		Actual	Actual	Actual	Actual	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected	
1. Investment		1,050	61,066	23,034	52,216	47,726	44,093	85,000	85,000	85,000	85,000	85,000	85,000	739,185
2. Retirements		96,654	112,575	160,676	21,432	20,915	101,805	0	27,546	58,804	106,677	22,187	22,405	751,675
3. Depreciation Base		5,913,735	5,862,226	5,724,584	5,755,368	5,782,179	5,724,467	5,809,467	5,866,921	5,893,117	5,871,440	5,934,253	5,996,848	
4. Depreciation Expense		<u>99,359</u>	<u>98,133</u>	<u>96,557</u>	<u>95,666</u>	<u>96,146</u>	<u>95,889</u>	<u>96,116</u>	<u>97,303</u>	<u>98,000</u>	<u>98,038</u>	<u>98,381</u>	<u>99,426</u>	<u>1,169,014</u>
5. Cumulative Investment	6,009,339	5,913,735	5,862,226	5,724,584	5,755,368	5,782,179	5,724,467	5,809,467	5,866,921	5,893,117	5,871,440	5,934,253	5,996,848	5,996,848
6. Less: Accumulated Depreciation	2,952,069	<u>2,954,775</u>	<u>2,940,333</u>	<u>2,876,214</u>	<u>2,950,448</u>	<u>3,025,679</u>	<u>3,019,763</u>	<u>3,115,879</u>	<u>3,185,636</u>	<u>3,224,832</u>	<u>3,216,193</u>	<u>3,292,387</u>	<u>3,369,408</u>	<u>3,369,408</u>
7. Net Investment	3,057,269	2,958,960	2,921,893	2,848,370	2,804,920	2,756,500	2,704,704	2,693,588	2,681,285	2,668,285	2,655,247	2,641,866	2,627,440	2,627,440
8. Average Investment	3,008,115	2,940,427	2,885,132	2,826,645	2,780,710	2,730,602	2,699,146	2,687,437	2,674,785	2,674,785	2,661,766	2,648,557	2,634,653	
9. Return on Average Investment - Equity Component	17,632	17,235	16,911	16,568	16,299	16,005	15,754	15,686	15,686	15,612	15,536	15,459	15,378	194,075
10. Return on Average Investment - Debt Component	5,055	4,941	4,848	4,750	4,673	4,588	4,039	4,022	4,022	4,003	3,984	3,964	3,943	52,610
Total Depreciation and Return		<u>122,046</u>	<u>120,309</u>	<u>118,316</u>	<u>116,984</u>	<u>117,118</u>	<u>116,482</u>	<u>115,909</u>	<u>117,011</u>	<u>117,615</u>	<u>117,558</u>	<u>117,804</u>	<u>118,747</u>	<u>1,415,899</u>

NOTES:

Depreciation expense is calculated using a useful life of 60 months.  
 Line 9 x 7.0040% 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 1.7959% x 1/12 (Jul-Dec).

TAMPA ELECTRIC COMPANY  
 Schedule of Capital Investment, Depreciation and Return  
 Actual for Months January 2017 through June 2017  
 Projected for Months July 2017 through December 2017

INDUSTRIAL LOAD MANAGEMENT

	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
		Actual	Actual	Actual	Actual	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected	
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
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	55,126
4. Depreciation Expense		<u>919</u>	<u>919</u>	<u>919</u>	<u>919</u>	<u>919</u>	<u>919</u>	<u>919</u>	<u>919</u>	<u>919</u>	<u>919</u>	<u>919</u>	<u>919</u>	<u>11,028</u>
5. Cumulative Investment	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	55,126
6. Less: Accumulated Depreciation	38,615	<u>39,534</u>	<u>40,453</u>	<u>41,372</u>	<u>42,291</u>	<u>43,210</u>	<u>44,129</u>	<u>45,048</u>	<u>45,967</u>	<u>46,886</u>	<u>47,805</u>	<u>48,724</u>	<u>49,643</u>	<u>49,643</u>
7. Net Investment	<u>16,511</u>	<u>15,592</u>	<u>14,673</u>	<u>13,754</u>	<u>12,835</u>	<u>11,916</u>	<u>10,997</u>	<u>10,078</u>	<u>9,159</u>	<u>8,240</u>	<u>7,321</u>	<u>6,402</u>	<u>5,483</u>	<u>5,483</u>
8. Average Investment	16,051	15,133	14,214	13,295	12,376	11,457	10,538	9,619	8,700	7,781	6,862	5,943	5,024	5,024
9. Return on Average Investment - Equity Component	94	89	83	78	73	67	62	56	51	45	40	35	30	773
10. Return on Average Investment - Debt Component	<u>27</u>	<u>25</u>	<u>24</u>	<u>22</u>	<u>21</u>	<u>19</u>	<u>16</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>10</u>	<u>9</u>	<u>9</u>	<u>212</u>
Total Depreciation and Return		<u>1,040</u>	<u>1,033</u>	<u>1,026</u>	<u>1,019</u>	<u>1,013</u>	<u>997</u>	<u>989</u>	<u>983</u>	<u>976</u>	<u>969</u>	<u>963</u>	<u>956</u>	<u>12,013</u>

NOTES:

Depreciation expense is calculated using a useful life of 60 months.  
 Line 9 x 7.0040% 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 1.7959% x 1/12 (Jul-Dec).

TAMPA ELECTRIC COMPANY  
 Schedule of Capital Investment, Depreciation and Return  
 Actual for Months January 2017 through June 2017  
 Projected for Months July 2017 through December 2017

ENERGY EDUCATION AWARENESS AND AGENCY OUTREACH

	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
		Actual	Actual	Actual	Actual	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected	
1. Investment		0	0	0	0	0	0	35,000	0	0	0	0	0	35,000
2. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
3. Depreciation Base		0	0	0	0	0	0	35,000	35,000	35,000	35,000	35,000	35,000	35,000
4. Depreciation Expense		0	0	0	0	0	0	292	583	583	583	583	583	3,207
5. Cumulative Investment	0	0	0	0	0	0	0	35,000	35,000	35,000	35,000	35,000	35,000	35,000
6. Less: Accumulated Depreciation	0	0	0	0	0	0	0	292	875	1,458	2,041	2,624	3,207	3,207
7. Net Investment	0	0	0	0	0	0	0	34,708	34,125	33,542	32,959	32,376	31,793	31,793
8. Average Investment		0	0	0	0	0	0	17,354	34,417	33,834	33,251	32,668	32,085	
9. Return on Average Investment - Equity Component		0	0	0	0	0	0	101	201	197	194	191	187	1,071
10. Return on Average Investment - Debt Component		0	0	0	0	0	0	26	52	51	50	49	48	276
Total Depreciation and Return		0	0	0	0	0	0	419	836	831	827	823	818	4,554

NOTES:

Depreciation expense is calculated using a useful life of 60 months.  
 Line 9 x 7.00040% 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 1.7959% x 1/12 (Jul-Dec).

TAMPA ELECTRIC COMPANY  
 Schedule of Capital Investment, Depreciation and Return  
 Actual for Months January 2017 through June 2017  
 Projected for Months July 2017 through December 2017

COMMERCIAL LOAD MANAGEMENT

	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
		Actual	Actual	Actual	Actual	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected	
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
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
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
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
10. Return on Average Investment - Debt Component		0	0	0	0	0	0	0	0	0	0	0	0	0
Total Depreciation and Return		0	0	0	0	0	0	0	0	0	0	0	0	0

NOTES:

Depreciation expense is calculated using a useful life of 60 months.  
 Line 9 x 7.0040% 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 1.7959% x 1/12 (Jul-Dec).

TAMPA ELECTRIC COMPANY  
 Energy Conservation Adjustment  
 Calculation of True-up

Actual for Months January 2017 through June 2017  
 Projected for Months July 2017 through December 2017

Program Name	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Projected	August Projected	September Projected	October Projected	November Projected	December Projected	Grand Total
12000353- Energy Audits (E)	67,869	200,177	239,027	180,467	186,194	156,796	239,827	298,362	285,041	308,540	253,909	384,739	2,811,148
12000381 Residential Ceiling Insulation	10,628	20,987	28,756	28,795	34,110	39,535	21,363	22,197	21,613	21,989	22,055	21,789	302,776
12000391 Residential Duct Repair	16,781	14,115	15,697	9,688	19,640	32,475	15,570	22,819	15,160	22,699	15,628	15,483	212,734
12000419 Residential Electronically Commutated Motors	0	0	0	0	0	36	0	0	220	0	0	0	256
12000375 Energy Education, Awareness and Agency Outreach	1,221	3,475	17,708	5,895	5,983	10,227	12,391	12,391	12,391	12,392	12,159	12,762	118,975
12000412 Energy Star Multi-Family	0	0	0	0	0	0	338	0	200	97,593	0	0	98,131
12000431 Energy Star for New Homes	96,974	38,370	199,225	48,228	17,973	41,348	45,135	45,140	45,135	47,472	45,767	44,972	533,338
12000349 Residential Heating and Cooling	31,587	34,857	44,917	44,214	56,534	56,804	57,689	57,719	57,669	42,134	39,103	18,075	540,052
12000425 Neighborhood Weatherization	151,519	156,004	193,084	253,237	445,237	308,994	593,064	588,064	587,579	587,664	587,729	590,167	5,042,342
12000433 Energy Planner	663,120	308,941	351,501	283,082	200,621	200,654	335,846	403,968	338,252	338,245	338,441	347,384	4,380,036
12000385 Residential Wall Insulation	86	148	19	0	0	0	0	0	176	0	247	191	867
12000367 Residential Window Replacement	53,906	49,595	54,053	52,429	51,981	51,311	50,374	50,374	50,374	50,404	50,424	51,083	616,288
12000621 Residential HVAC Re-Commissioning	0	0	0	0	0	0	0	0	0	0	0	0	0
12000373 Residential Window Film	0	0	0	0	0	0	0	0	0	0	0	0	0
12000351 Prime Time	4,890	507	3,228	461	3,116	2,691	3,818	818	3,818	818	3,818	2,318	30,282
12000397 Commercial Ceiling Insulation	173	167	450	0	78	388	0	2,702	0	2,702	0	1,410	5,368
12000411 Commercial Chiller	4,884	859	2,884	13,932	147	439	7,515	3,819	25	25	0	0	33,910
12000371 Cogeneration	3,850	12,133	10,829	3,789	5,584	5,945	3,603	3,948	3,603	3,774	3,774	3,603	64,443
12000389 Conservation Value	404	508	0	64	173	0	1,108	1,851	1,108	1,108	1,851	61,851	70,027
12000443 Cool Roof	68,396	10,638	24,351	2,139	1,718	61,103	8,721	8,721	8,721	17,391	17,391	43,762	273,042
12000429 Commercial Cooling	404	411	610	523	424	439	93	93	374	374	93	93	3,932
12000409 Demand Response	306,857	1,399	614,481	310,803	307,399	1,701	308,753	308,753	308,753	308,753	308,753	3,996,357	3,996,357
12000377 Commercial Duct Repair	404	283	578	439	147	439	270	0	270	0	0	1,003	3,833
12000441 Commercial ECM	173	946	2,300	439	205	439	144	2,377	1,340	590	590	1,484	11,027
12000379 Industrial Load Management (GLSM 2B3)	1,583,294	1,489,685	1,491,547	1,255,382	1,412,675	1,424,139	1,220,049	1,220,041	1,220,035	1,220,028	1,220,021	1,220,015	15,976,880
12000385 Lighting Conditioned Space	8,804	59,648	15,549	68,996	61,742	35,826	40,183	44,171	40,183	44,171	40,183	38,588	498,144
12000391 Lighting Non-Conditioned Space	17,188	27,335	13,158	6,189	8,480	13,581	11,925	12,728	11,925	11,123	10,322	10,322	154,253
12000413 Lighting Occupancy Sensors	0	0	0	0	17,600	11	0	2,598	0	0	0	955	21,164
12000383 CLM (GLSM 1)	0	0	0	507	989	884	1,000	1,000	1,000	1,000	0	0	6,790
12000415 Refrigeration Anti-condensate Control	0	19	64	32	0	0	1745	0	0	0	0	0	1,860
12000387 Standby Generator	254,042	238,546	224,754	254,555	285,491	231,318	595,494	270,359	271,359	263,040	268,040	388,040	3,450,038
12000392 Thermal Energy Storage	0	263	152	10,100	116	0	541	10,100	541	82,021	541	104,375	104,375
12000389 Commercial Wall Insulation	0	0	0	0	0	0	0	0	0	0	0	0	0
12000417 Commercial Water Heating	0	0	0	32	116	0	0	0	0	0	0	2,184	2,342
12000427 Conservation Research and Development	144	231	0	0	1,514	632	35,876	4,178	59,676	676	676	5,676	100,277
12000393 Renewable Energy Program	(11,650)	(12,104)	(12,677)	(3,413)	(12,452)	(14,395)	(10,026)	(10,026)	(10,026)	(10,026)	288,974	(10,026)	172,948
12000405- Renewable Energy Systems Initiative	0	0	0	0	0	0	0	0	0	0	0	0	0
12000437 Commercial EMI Signs	0	0	0	0	0	0	0	0	0	0	0	0	0
12000439 Commercial HVAC Re-commissioning	0	0	0	28	(28)	0	0	0	0	0	0	0	0
12000401 Commercial Motors	0	0	0	0	0	0	0	0	0	0	0	0	0
12000435 Commercial Roof Insulation	0	0	0	0	0	0	0	0	0	0	0	0	0
12000395 Commercial Window Film	0	0	0	0	0	0	0	0	0	0	0	0	0
12000347 Common Expenses	61,484	90,055	108,517	100,701	65,411	68,306	87,889	67,385	65,935	702,133	102,075	66,078	954,149
Total	3,606,697	2,745,167	3,475,342	2,811,815	3,247,898	2,822,034	3,699,827	3,534,383	3,415,711	3,467,701	3,715,044	3,633,265	39,994,384
Less: Included in Base Rates													
Recoverable Conservation Expenses	3,606,697	2,745,167	3,475,342	2,811,815	3,247,898	2,822,034	3,699,827	3,534,383	3,415,711	3,467,701	3,715,044	3,633,265	39,994,384
Less Renewable Energy	(11,650)	(12,104)	(12,677)	(3,413)	(12,452)	(14,395)	(10,026)	(10,026)	(10,026)	(10,026)	288,974	(10,026)	172,948
Total Conservation Expenses	3,417,562	2,727,221	3,488,019	2,855,228	3,260,350	2,836,429	3,689,801	3,544,409	3,425,737	3,477,727	3,425,070	3,643,291	39,821,436





TAMPA ELECTRIC COMPANY  
 Energy Conservation  
 Calculation of Conservation Revenues

Actual for Months January 2017 through June 2017  
 Projected for Months July 2017 through December 2017

Months	(1)	(2)	(3)	(4)
		Firm MWH Sales	Interruptible MWH Sales	Clause Revenue Net of Revenue Taxes
January		1,478,242	-	2,810,991
February		1,295,325	-	2,575,105
March		1,311,129	-	2,584,417
April		1,432,554	-	2,800,577
May		1,667,779	-	3,288,946
June		1,750,258	-	3,489,588
July		1,899,862	-	3,694,447
August		1,883,474	-	3,684,366
September		1,974,571	-	3,770,015
October		1,723,692	-	3,346,370
November		1,416,894	-	2,837,072
December		1,389,836	-	2,755,554
Total		<u>19,223,616</u>	<u>0</u>	<u>37,637,447</u>

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** RESIDENTIAL ENERGY AUDITS

**Program Description:** A “how to” information and analysis guide for customers. There are four types of residential energy audits available to Tampa Electric customers: Walk-through Free Energy Check, Customer Assisted, Computer Assisted Paid and Building Energy Ratings System (“BERS”).

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, the following energy audit participation is projected:

Residential Walk-Through:	5,800
Residential Customer Assisted:	900
Residential Computer Assisted:	7
BERS:	1

January 1, 2018 to December 31, 2018

During this period, the following energy audit participation is projected:

Residential Walk-Through:	6,000
Residential Customer Assisted:	800
Residential Computer Assisted:	10
BERS:	1

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$2,501,616.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$2,394,131.

**Program Progress Summary:**

Through December 31, 2016 the following Residential Energy Audit totals are:

Residential Walk-Through:	314,629
Residential Customer Assisted <sup>(1)</sup> :	122,555
Residential Computer Assisted:	3,904
<u>BERS:</u>	<u>80</u>
Total:	441,168

Note 1: Includes Mail-in and On-line audits. Residential Mail-in audit program was retired on December 31, 2004.

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** RESIDENTIAL CEILING INSULATION

**Program Description:** A rebate program that encourages existing residential customers to install additional ceiling insulation in existing homes.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 1,200 customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 1,300 customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$302,776.

January 1, 2018 to December 31, 2018

Expenditures are estimated at \$339,032.

**Program Progress Summary:**

Through December 31, 2016 the following Residential Ceiling Insulation totals are:

Residential Ceiling Insulation: 121,823

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** RESIDENTIAL DUCT REPAIR

**Program Description:** A rebate program that encourages residential customers to repair leaky duct work of central air conditioning systems in existing homes

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 1,100 customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 1,300 customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$215,734.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$266,029.

**Program Progress Summary:**

Through December 31, 2016 the following Residential Duct Repair totals are:  
Residential Duct Repair: 99,222

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** RESIDENTIAL ELECTRONICALLY COMMUTATED MOTORS (ECM)

**Program Description:** A rebate program that encourages residential customers to replace their existing HVAC air handler motor with an ECM.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there is one customer projected to participate.

January 1, 2018 to December 31, 2018

During this period, there is one customer projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$256.

January 1, 2018 to December 31, 2018

Expenditures are estimated at \$220.

**Program Progress Summary:**

Through December 31, 2016 the following Residential Electronically Commutated Motors (ECM) totals are:

Residential ECM: 5

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** ENERGY EDUCATION, AWARENESS AND AGENCY OUTREACH

**Program Description:** A program that provides opportunities for engaging and educating groups of customers and students on energy-efficiency and conservation in an organized setting. Participants are provided with an energy savings kit which includes energy saving devices and supporting information appropriate for the audience.

**Program Projections:** January 1, 2017 to December 31, 2017.

During this period, there are 550 customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 750 customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$118,975.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$128,113.

**Program Progress Summary:**

Through 2016, 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 5,054 energy saving kits to participating customers.

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** ENERGY STAR FOR NEW MULTI-FAMILY RESIDENCES

**Program Description:** A rebate program that encourages the construction of new multi-family residences to meet the requirements to achieve the ENERGY STAR certified apartments and condominium label.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 500 multi-family residences projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 600 multi-family residences projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$98,131.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$199,040.

**Program Progress Summary:**

On May 4, 2017 ENERGY STAR for New Multi-Family Residences was approved as a new residential DSM program.

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** ENERGY STAR FOR NEW HOMES

**Program Description:** A rebate program that encourages residential customers to construct residential dwellings that qualify for the Energy Star Award by achieving efficiency levels greater than current Florida building code baseline practices.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 600 customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 1,000 customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$533,338.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$958,600.

**Program Progress Summary:**

On November 3, 2015 ENERGY STAR for New Homes replaced the prior Residential New Construction Program. Through December 31, 2016 the following ENERGY STAR for New Homes totals are:

ENERGY STAR for New Homes: 12,171



**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** RESIDENTIAL HEATING AND COOLING

**Program Description:** A rebate program that encourages residential customers to install high-efficiency residential heating and cooling equipment in existing homes.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 3,500 units projected to be installed and approved.

January 1, 2018 to December 31, 2018

During this period, there are 4,000 units projected to be installed and approved.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$540,062.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$651,176.

**Program Progress Summary:**

Through December 31, 2016 the following Residential Heating and Cooling totals are:

Residential Heating and Cooling: 198,054

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** NEIGHBORHOOD WEATHERIZATION

**Program Description:** A program that provides for the installation of energy efficient measures for qualified low-income customers.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 6,500 customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 7,000 customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$5,042,342.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$6,438,873.

**Program Progress Summary:**

Through December 31, 2016 the following Neighborhood Weatherization totals are:

Neighborhood Weatherization: 29,382

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** RESIDENTIAL PRICE RESPONSIVE LOAD MANAGEMENT (ENERGY PLANNER)

**Program Description:** A program that reduces weather-sensitive loads through an innovative price responsive rate used to encourage residential customers to make behavioral or equipment usages changes by pre-programming HVAC, water heating and pool pumps.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 5,231 projected customers for this program on a cumulative basis.

January 1, 2017 to December 31, 2017

During this period, there are 6,231 projected customers for this program on a cumulative basis.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$4,380,036.

January 1, 2019 to December 31, 2019

Expenditures are estimated to be \$3,781,517.

**Program Progress Summary:**

Through December 31, 2016 the following Energy Planner totals are:  
Energy Planner Participating Customers: 4,431

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** RESIDENTIAL WALL INSULATION

**Program Description:** A rebate program that encourages existing residential customers to install additional wall insulation in existing homes.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are six customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are ten customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2016

Expenditures are estimated to be \$867.

January 1, 2018 to December 31, 2018

Expenditures are estimated at \$2,173.

**Program Progress Summary:**

Through December 31, 2016 the following Residential Wall Insulation totals are:  
Residential Wall Insulation: 190

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** RESIDENTIAL WINDOW REPLACEMENT

**Program Description:** A rebate program that encourages existing residential customers to install window upgrades in existing homes.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 1,800 customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 1,600 customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$616,268.

January 1, 2018 to December 31, 2018

Expenditures are estimated at \$540,687.

**Program Progress Summary:**

Through December 31, 2016 the following Residential Window Replacement totals are:

Residential Window Replacement: 11,724

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** PRIME TIME

**Program Description:** An incentive program that encourages residential customers to allow the control of weather-sensitive heating, cooling and water heating systems to reduce the associated weather sensitive peak.

**Program Projections:** January 1, 2017 to December 31, 2017

This program is retired

January 1, 2018 to December 31, 2018

This program is retired.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$30,292.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$28,932.

**Program Progress Summary:**

Program was retired on May 11, 2016

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** COMMERCIAL/INDUSTRIAL ENERGY AUDITS

**Program Description:** A “how to” information and analysis guide for customers. There are two types of commercial/industrial energy audits available to Tampa Electric customers: Commercial/Industrial (Free) and Comprehensive Commercial/Industrial (Paid).

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, the following energy audit participation is projected:  
 Commercial/Industrial (Free): 1,100  
 Comprehensive Commercial/Industrial (Paid): 2

January 1, 2018 to December 31, 2018

During this period, the following energy audit participation is projected:  
 Commercial/Industrial (Free): 1,200  
 Comprehensive Commercial/Industrial (Paid): 4

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$309,532.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$349,596.

**Program Progress Summary:**

Through December 31, 2016 the following Commercial Energy Audit totals are:

Commercial/Industrial (Free):	24,198
Comprehensive Commercial/Industrial (Paid):	237
<u>Commercial Mail-in</u>	<u>1,477</u>
Commercial/Industrial Total	25,912

Commercial Mail-in audit program was retired on December 31, 2004.

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** COMMERCIAL CEILING INSULATION

**Program Description:** A rebate program that encourages commercial and industrial customers to install additional ceiling insulation in existing commercial structures.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are five customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 8 customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$5,368.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$7,876.

**Program Progress Summary:**

Through December 31, 2016 the following Commercial Ceiling Insulation totals are:

Commercial Ceiling Insulation: 306



**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** COMMERCIAL CHILLER

**Program Description:** A rebate program that encourages commercial and industrial customers to install high efficiency chiller equipment.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are eight units projected to be installed and approved.

January 1, 2018 to December 31, 2018

During this period, there are eight units projected to be installed and approved.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$33,910.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$30,653.

**Program Progress Summary:**

Through December 31, 2016 the following Commercial Chiller totals are:  
Commercial Chiller: 61

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** COGENERATION

**Program Description:** An incentive program whereby large industrial customers with waste heat or fuel resources may install electric generating equipment, meet their own electrical requirements and/or sell their surplus to the company.

**Program Projections:** January 1, 2017 to December 31, 2017

The company continues communication and interaction with all existing participants and potential developers regarding current and future cogeneration customers. There are no new cogeneration facility additions projected.

January 1, 2018 to December 31, 2018

The company continues communication and interaction with all existing participants and potential developers regarding current and future cogeneration customers. Tampa Electric will continue working with customers to evaluate the economics of additional capacity in future years.

**Program Fiscal  
Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$64,443.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$46,118.

**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. These facilities have a total combined nameplate generation capacity of 448.2 MW. This includes generation that is connected, but wheeled outside of Tampa Electric’s service area.

The company continues interaction with existing participants and potential developers regarding current and future cogeneration activities.

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** CONSERVATION VALUE

**Program Description:** A rebate program that encourages commercial and industrial customers to invest in energy efficiency and conservation measures that are not sanctioned by other commercial programs.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there is one customer projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are two customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$70,027.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$142,072.

**Program Progress Summary:**

Through December 31, 2016 the following Conservation Value totals are:  
Conservation Value: 53

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** COMMERCIAL COOL ROOF

**Program Description:** A rebate program that encourages commercial and industrial customers to install a cool roof system above conditioned spaces.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 35 customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 20 customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$273,042.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$234,014.

**Program Progress Summary:**

Through December 31, 2016 the following Commercial Cool Roof totals are:  
Commercial Cool Roof: 219

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** COMMERCIAL COOLING

**Program Description:** A rebate program that encourages commercial and industrial customers to install high efficiency direct expansion commercial air conditioning cooling equipment.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are six units projected to be installed and approved.

January 1, 2018 to December 31, 2018

During this period, there are five units projected to be installed and approved.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$3,932.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$2,521.

**Program Progress Summary:**

Through December 31, 2016 the following Commercial Cooling totals are:  
Commercial Cooling: 2,298

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** DEMAND RESPONSE

**Program Description:** A turn-key incentive program for commercial and industrial customers to reduce their demand for electricity in response to market signals.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 40 MW of demand response available for control.

January 1, 2018 to December 31, 2018

During this period, there are 40 MW of demand response projected to be available for control.

**Program Fiscal  
Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$3,395,357.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$3,710,036.

**Program Progress  
Summary:**

Through December 31, 2016, Tampa Electric was subscribed for 40 MW.

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** COMMERCIAL DUCT REPAIR

**Program Description:** A rebate program that encourage existing commercial and industrial customers to repair leaky ductwork of central air-conditioning systems in existing commercial and industrial facilities.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are six repairs projected to be made.

January 1, 2018 to December 31, 2018

During this period, there are 25 repairs projected to be made.

**Program Fiscal  
Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$3,833.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$12,230.

**Program Progress  
Summary:**

Through December 31, 2016 the following Commercial Duct Repair totals are:  
Commercial Duct Repair: 11,030

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** COMMERCIAL ELECTRONICALLY COMMUTATED MOTORS (ECM)

**Program Description:** A rebate program that encourages commercial and industrial customers to replace their existing air handler motors or refrigeration fan motors with an ECM.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 195 customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 200 customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$11,027.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$11,268.

**Program Progress Summary:**

Through December 31, 2016 the following Commercial Electronically Commutated Motors (ECM) totals are:  
Commercial ECM: 1,310



**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** INDUSTRIAL LOAD MANAGEMENT (GSLM 2&3)

**Program Description:** An incentive program whereby large industrial customers allow for the interruption of their facility or portions of their facility electrical load.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, zero new customers are projected to participate.

January 1, 2018 to December 31, 2018

During this period, one new customer is projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$15,976,880.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$15,115,993.

**Program Progress Summary:**

Through December 31, 2016, there are 34 customers participating.

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** LIGHTING CONDITIONED SPACE

**Program Description:** A rebate program that encourages commercial and industrial customers to invest in more efficient lighting technologies in existing conditioned areas of commercial and industrial facilities.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 150 customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 110 customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$498,146.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$363,090.

**Program Progress Summary:**

Through December 31, 2016 the following Lighting Conditioned Space totals are:  
Lighting Conditioned Space: 1,944

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** LIGHTING NON-CONDITIONED SPACE

**Program Description:** A rebate program that encourages commercial and industrial customers to invest in more efficient lighting technologies in existing non-conditioned areas of commercial and industrial facilities.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 225 customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are 50 customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$154,253.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$83,278.

**Program Progress Summary:**

Through December 31, 2016 the following Lighting Non-Conditioned Space totals are:

Lighting Non-Conditioned Space: 213

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** LIGHTING OCCUPANCY SENSORS

**Program Description:** A rebate program that encourages commercial and industrial customers to install occupancy sensors to control commercial lighting systems.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 30 units projected to be installed and approved.

January 1, 2018 to December 31, 2018

During this period, there are 12 units projected to be installed and approved.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$21,164.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$11,497.

**Program Progress Summary:**

Through December 31, 2016 the following Lighting Occupancy Sensors totals are:  
Lighting Occupancy Sensors: 212

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** COMMERCIAL LOAD MANAGEMENT

**Program Description:** An incentive program that encourages commercial and industrial customers to allow for the control of weather-sensitive heating, cooling and water heating systems to reduce the associated weather sensitive peak.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are zero new installations projected.

January 1, 2018 to December 31, 2018

During this period, there are zero new installations projected.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$6,790.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$24,777.

**Program Progress Summary:**

Through December 31, 2016 the following Commercial Load Management totals are:

Commercial Load Management Participating Customers: 6

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** REFRIGERATION ANTI-CONDENSATE CONTROL

**Program Description:** A rebate program that encourages commercial and industrial customers to install anti-condensate equipment sensors and control within refrigerated door systems.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there is one customer projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are two customers projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$1,860.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$3,490.

**Program Progress Summary:**

Through December 31, 2016 the following Refrigeration Anti-Condensate totals are:

Refrigeration Anti-Condensate: 0

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** STANDBY GENERATOR

**Program Description:** An incentive program designed to utilize the emergency generation capacity of commercial/industrial facilities in order to reduce weather sensitive peak demand.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are two new installations projected.

January 1, 2018 to December 31, 2018

During this period, there is one new installation projected.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$3,450,037.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$3,236,868.

**Program Progress Summary:**

Through December 31, 2016 the following Standby Generator totals are:  
Standby Generator Participating Customers: 91

### PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** THERMAL ENERGY STORAGE

**Program Description:** A rebate program that encourages commercial and industrial customers to install an off-peak air conditioning system.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are two customer projected to participate.

January 1, 2018 to December 31, 2018

During this period, there are three customers projected to participate.

**Program Fiscal  
Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$104,375.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$208,897.

**Program Progress  
Summary:**

Through December 31, 2016 the following Thermal Energy Storage totals are:  
Thermal Energy Storage: 0



**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** COMMERCIAL WALL INSULATION

**Program Description:** A rebate program that encourages commercial and industrial customers to install wall insulation in existing commercial and industrial structures.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are zero customers projected to participate.

January 1, 2018 to December 31, 2018

During this period, there is one customer projected to participate.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$0.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$2,219.

**Program Progress Summary:**

Through December 31, 2016 the following Commercial Wall Insulation totals are:  
Commercial Wall Insulation: 2

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** COMMERCIAL WATER HEATING

**Program Description:** A rebate program that encourages commercial and industrial customers to install high efficiency water heating systems.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there is one units projected to be installed and approved.

January 1, 2018 to December 31, 2018

During this period, there are three units projected to be installed and approved.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$2,342.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$6,582.

**Program Progress Summary:**

Through December 31, 2016 the following Commercial Water Heating totals are:  
Commercial Water Heating: 0

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** DSM RESEARCH AND DEVELOPMENT (R&D)

**Program Description:** A program that allows for the exploration of DSM measures that have insufficient data on the cost-effectiveness of the measure and the potential impact to Tampa Electric and its ratepayers.

**Program Projections:** See Program Progress Summary.

**Program Fiscal  
Expenditures:**

January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$100,277.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$191,056.

**Program Progress  
Summary:**

Currently, Tampa Electric continues to review possible programs to research and develop and has the following four active R&D evaluations in progress:

1. Electric vehicle benefits and impacts.
2. Battery storage for peak shifting.
3. Heat Pump Water Heater inclusion into the Energy Planner Program.
4. Commercial low-income weatherization.

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** RENEWABLE ENERGY PROGRAM

**Program Description:** This program is designed to promote and deliver renewable energy options to the company's customers. This specific effort provides funding for program administration, generation, evaluation of potential new renewable sources and market research.

**Program Projections:** January 1, 2017 to December 31, 2017

During this period, there are 1,700 projected customers with 2,500 subscribed monthly blocks estimated on a cumulative basis.

During this period, there are 400 blocks estimated to be purchased on a one-time basis.

January 1, 2018 to December 31, 2018

During this period, there are 1,750 projected customers with 2,600 subscribed monthly blocks estimated on a cumulative basis.

During this period, there are 400 blocks estimated to be purchased on a one-time basis.

**Program Fiscal Expenditures:**

January 1, 2017 to December 31, 2017

During this period, the company anticipates excess revenues of approximately \$154,949 to be used for new renewable generation. At the end of this period, the company projects the deferred balance (credits) to be \$298,119.

January 1, 2018 to December 31, 2018

During this period, the company anticipates excess revenues of approximately \$159,506 to be used for new renewable generation. At the end of this period, the company projects the deferred balance (credits) to be \$133,947.

**Program Progress Summary:**

Through December 31, 2016, there were 1,749 customers with 2,600 blocks subscribed. In addition, there were 4,000 blocks of renewable energy purchased on a one-time basis. On a cumulative basis, 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 Projections:** N/A

**Program Fiscal Expenditures:** January 1, 2017 to December 31, 2017

Expenditures are estimated to be \$954,149.

January 1, 2018 to December 31, 2018

Expenditures are estimated to be \$790,121.

**Program Progress Summary:** N/A

**2018 GSLM Incentive Calculation**

**Annual KW Reduction                    49,735**  
**Annual Incentive                         \$475,312**  
**Dollar Per KW                            \$9.556835**

Month	KW Reduction	Incentive
Jan	4,265	40,757
Feb	4,265	40,757
Mar	4,265	40,757
Apr	4,059	38,790
May	4,059	38,790
Jun	4,059	38,790
Jul	4,059	38,790
Aug	4,059	38,790
Sep	4,059	38,790
Oct	4,059	38,790
Nov	4,265	40,757
Dec	4,265	40,757
<b>Total</b>		<b>475,312</b>

**2018 \$/kW Filing<sup>(1)</sup>                         \$9.56**

<sup>(1)</sup>Rounded to the nearest cent.







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PARTICIPANT COSTS AND BENEFITS  
 PROGRAM: Contracted Credit Value Calculation

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILL \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O & M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2017	28	0	238	0	266	42	0	0	42	224	224
2018	81	0	713	0	794	43	0	0	43	751	926
2019	146	0	1,188	0	1,334	44	0	0	44	1,290	2,053
2020	211	0	1,664	0	1,875	45	0	0	45	1,830	3,548
2021	246	0	1,901	0	2,147	0	0	0	0	2,147	5,188
2022	252	0	1,901	0	2,153	0	0	0	0	2,153	6,724
2023	261	0	1,901	0	2,162	0	0	0	0	2,162	8,167
2024	271	0	1,901	0	2,172	0	0	0	0	2,172	9,522
2025	278	0	1,901	0	2,179	0	0	0	0	2,179	10,793
2026	284	0	1,901	0	2,185	0	0	0	0	2,185	11,984
2027	293	0	1,901	0	2,195	0	0	0	0	2,195	13,102
2028	300	0	1,901	0	2,201	0	0	0	0	2,201	14,150
2029	313	0	1,901	0	2,214	0	0	0	0	2,214	15,136
2030	321	0	1,901	0	2,222	0	0	0	0	2,222	16,061
2031	331	0	1,901	0	2,232	0	0	0	0	2,232	16,929
2032	337	0	1,901	0	2,238	0	0	0	0	2,238	17,743
2033	348	0	1,901	0	2,250	0	0	0	0	2,250	18,507
2034	358	0	1,901	0	2,259	0	0	0	0	2,259	19,225
2035	362	0	1,901	0	2,263	0	0	0	0	2,263	19,898
2036	362	0	1,901	0	2,264	0	0	0	0	2,264	20,526
2037	366	0	1,901	0	2,267	0	0	0	0	2,267	21,115
2038	373	0	1,901	0	2,275	0	0	0	0	2,275	21,667
2039	381	0	1,901	0	2,283	0	0	0	0	2,283	22,185
2040	384	0	1,901	0	2,286	0	0	0	0	2,286	22,669
2041	396	0	1,901	0	2,297	0	0	0	0	2,297	23,124
NOMINAL	7,284	0	43,729	0	51,012	174	0	0	174	50,838	
NPV:	3,120	0	20,162	0	23,282	157	0	0	157	23,124	
In service year of gen unit:			2021		148.00644						

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RATE IMPACT TEST  
 PROGRAM: Contracted Credit Value Calculation

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T & D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS TO ALL CUSTOMERS \$(000)	CUMULATIVE DISCOUNTED NET BENEFIT \$(000)
2017	0	125	238	11	0	373	13	0	0	0	13	(360)	(360)
2018	0	132	713	32	0	877	43	191	0	0	234	(643)	(961)
2019	0	140	1,188	54	0	1,382	85	196	0	0	280	(1,102)	(1,924)
2020	0	147	1,664	77	0	1,888	119	200	0	0	319	(1,569)	(3,205)
2021	0	18	1,901	89	0	2,008	2,790	493	0	0	3,283	1,275	(2,232)
2022	0	18	1,901	89	0	2,009	2,722	488	0	0	3,210	1,201	(1,375)
2023	0	19	1,901	90	0	2,011	2,667	482	0	0	3,149	1,139	(615)
2024	0	19	1,901	91	0	2,012	2,520	476	0	0	2,996	984	(1)
2025	0	20	1,901	92	0	2,013	2,466	472	0	0	2,937	924	537
2026	0	20	1,901	93	0	2,015	2,497	468	0	0	2,965	950	1,055
2027	0	21	1,901	94	0	2,016	2,423	464	0	0	2,887	870	1,499
2028	0	21	1,901	95	0	2,018	2,403	461	0	0	2,864	847	1,902
2029	0	22	1,901	96	0	2,019	2,275	458	0	0	2,733	714	2,220
2030	0	22	1,901	97	0	2,020	2,267	455	0	0	2,722	701	2,511
2031	0	23	1,901	98	0	2,022	2,230	452	0	0	2,682	660	2,768
2032	0	23	1,901	99	0	2,024	2,196	449	0	0	2,645	622	2,994
2033	0	24	1,901	100	0	2,025	2,193	447	0	0	2,640	615	3,203
2034	0	25	1,901	101	0	2,027	2,173	445	0	0	2,618	591	3,391
2035	0	25	1,901	102	0	2,028	2,123	442	0	0	2,565	537	3,551
2036	0	26	1,901	103	0	2,030	2,108	441	0	0	2,549	519	3,695
2037	0	26	1,901	104	0	2,032	2,146	443	0	0	2,589	558	3,840
2038	0	27	1,901	105	0	2,033	2,142	446	0	0	2,588	555	3,974
2039	0	28	1,901	106	0	2,035	2,124	449	0	0	2,573	538	4,097
2040	0	28	1,901	107	0	2,037	2,220	453	0	0	2,673	636	4,231
2041	0	29	1,901	108	0	2,038	2,288	456	0	0	2,744	706	4,371
NOMINAL	0	1,030	43,729	2,233	0	46,992	49,233	10,226	0	0	59,459	12,468	
NPV:	0	685	20,162	1,000	0	21,846	21,585	4,633	0	0	26,218	4,371	

Discount rate: 0.06976 Benefit/Cost Ratio - [col (12)/col (7)]: 1.20

2018 Residential Service Variable Pricing (RSVP-1) Rates (Cents per kWh)

Rate Tiers	Base Rate	Fuel	Capacity	Environmental	Conservation	Total Clauses	Base Rate Plus Clauses
P4	5.549	3.088	0.066	0.343	40.450	43.947	49.496
P3	5.549	3.088	0.066	0.343	6.879	10.376	15.925
P2	5.549	3.088	0.066	0.343	-1.055	2.442	7.991
P1	5.549	3.088	0.066	0.343	-2.988	0.509	6.058