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May 2, 2022

VIA: ELECTRONIC FILING

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

Re: Energy Conservation Cost Recovery Clause
FPSC Docket No. 20220002-EG

Dear Mr. Teitzman:

Attached for filing in the above docket on behalf of Tampa Electric Company is the Testimony of Mark R. Roche and Exhibit MRR-1, entitled Schedules Supporting Conservation Cost Recovery Factor, Actual, for the period January 2021 – December 2021.

Thank you for your assistance in connection with this matter.

Sincerely,



Malcolm N. Means

MNM/bmp
Attachment

cc: All parties of record.



**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

DOCKET NO. 20220002-EG

IN RE: ENERGY CONSERVATION COST RECOVERY CLAUSE

TESTIMONY AND EXHIBIT

OF

MARK R. ROCHE

FILED: May 2, 2022

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

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

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

11
12 **A.** The purpose of my testimony is to present and support for
13 Commission review and approval the company's actual DSM
14 programs related true-up costs incurred during the
15 January through December 2021 period. In addition, my
16 testimony will show the adjustment credit made to address
17 the impacts of the 2021 State Tax Rate Change on Tampa
18 Electric as provided in the Commission approved 2017
19 Agreement that was approved by Order No. PSC-2017-0456-S-
20 EI that was issued on November 27, 2017.

21
22 **Q.** Did you prepare any exhibits in support of your
23 testimony?

24
25 **A.** Yes. Exhibit No. MRR-1, entitled "Tampa Electric

1 Company, Schedules Supporting Conservation Cost Recovery
2 Factor, Actual, January 2021-December 2021" was prepared
3 under my direction and supervision. This Exhibit
4 includes Schedules CT-1 through CT-6 which support the
5 company's actual and prudent DSM program related true-up
6 costs incurred during the January through December 2021
7 period.

8
9 **Q.** What were Tampa Electric's actual January through
10 December 2021 conservation costs?

11
12 **A.** For the period, January through December 2021, Tampa
13 Electric incurred actual net conservation costs of
14 \$46,328,538.

15
16 **Q.** What is the final end of period true-up amount for the
17 conservation clause for January through December 2021?

18
19 **A.** The final conservation clause end of period true-up for
20 January through December 2021 is an over-recovery of
21 \$10,818,286, which includes interest. This calculation
22 is detailed on Schedule CT-1, page 1 of 1. This over-
23 recovery amount also includes a credit to customers of
24 \$6,198,225 which recognizes the impacts of the 2021 State
25 Tax Rate Change on Tampa Electric. This adjustment is

1 reflected on Schedule CT-2, page 1 of 2, line 18, listed
2 as "Regulatory Adjustments". The Commission approved
3 this amount during its April 5, 2022 agenda conference in
4 Docket No. 20220053-EI.

5
6 **Q.** Please summarize how Tampa Electric's actual program
7 costs for January through December 2021 period compare to
8 the actual/estimated costs presented in Docket No.
9 20210002-EG?

10
11 **A.** For the period, January through December 2021, Tampa
12 Electric had a variance of \$224,845 or 0.49 percent more
13 than the estimated amount. The estimated total program
14 costs were projected to be \$46,103,693 which was the
15 amount approved in Order No. PSC 2021-0427-FOF-EG, issued
16 November 17, 2021 as compared to the incurred actual net
17 conservation costs of \$46,328,538.

18
19 **Q.** Please summarize the reasons why the actual expenses were
20 more than projected expenses by \$224,845?

21
22 **A.** The variance was a result of the following actual
23 expenses being more than estimated in the following
24 residential programs: Walk-Through Energy Audits;
25 Customer Assisted Audits; Ceiling Insulation; ENERGY STAR

1 for New Multi-Family Residences; and ENERGY STAR Pool
2 Pumps. Additionally, actual expenses were more than
3 estimated in the following commercial/industrial
4 programs: Cool Roof; Commercial Cooling; Industrial Load
5 Management; LED Street and Outdoor Lighting Conversion
6 Program; Lighting Conditioned Space; and Lighting Non-
7 Conditioned Space. Each DSM program's detailed variance
8 and common variance contribution is shown on Schedule CT-
9 2, Page 3 of 4.

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

13
14 **A.** Yes.

15
16 **Q.** When did Tampa Electric transition to the Commission
17 approved 2020-2029 Ten-Year DSM Plan?

18
19 **A.** Tampa Electric transitioned to the Commission approved
20 2020-2029 Ten-Year DSM Plan on November 2, 2020, for all
21 DSM programs.

22
23 **Q.** Did Tampa Electric continue to offer any of the DSM
24 Programs, after November 2, 2020, that were discontinued?

25

1 **A.** No, however the company did pay customer incentives to
2 four participants of the Commercial Cool Roof program, in
3 2021, that obtained pre-verification approval prior to
4 the November 2, 2020, transition date. Due to the COVID
5 Pandemic, the company allowed customers to complete their
6 installation of the cool roofs within one year of the
7 pre-verification approval.

8
9 **Q.** Did Tampa Electric pay any other customer incentives or
10 incur any other costs in 2021 due to the DSM programs
11 that were discontinued on November 2, 2020?

12
13 **A.** No.

14
15 **Q.** Did Tampa Electric offer the programs contained in the
16 2020-2029 Ten-Year DSM Plan the entire 2021 period?

17
18 **A.** No, the company is still working on initiating the Prime
19 Time Plus program which will use the company's Advanced
20 Metering Infrastructure ("AMI") system to facilitate this
21 program. The company is still projecting that this DSM
22 program will begin to be offered to customers in the
23 fourth quarter of 2022 or the beginning of 2023.

24
25 **Q.** Should Tampa Electric's cost incurred during the January

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through December 2021 period for energy conservation be approved by the Commission?

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

Q. Does that conclude your testimony?

A. Yes, it does.

TAMPA ELECTRIC COMPANY
SCHEDULES SUPPORTING CONSERVATION
COST RECOVERY FACTOR
ACTUAL
JANUARY 2021 - DECEMBER 2021

CONSERVATION COST RECOVERY

INDEX

SCHEDULE	TITLE	PAGE
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SCHEDULE CT-1
Page 1 of 1

TAMPA ELECTRIC COMPANY
Energy Conservation
Adjusted Net True-up
For Months January 2021 through December 2021

End of Period True-up

Principal	\$10,807,889
Interest	\$10,397
Total	\$10,818,286

Less: Projected True-up

(Last Projected Conservation Hearing)

Principal	\$4,644,057
Interest	\$22,574
Total	\$4,666,631

Adjusted Net True-up \$6,151,655

SCHEDULE CT-2
 Page 1 of 4

TAMPA ELECTRIC COMPANY
 Analysis of Energy Conservation Program Costs
 Actual vs. Projected
 For Months January 2021 through December 2021

Description	Actual	Projected	Difference
1 Capital Investment	\$1,386,884	\$1,438,032	(\$51,148)
2 Payroll	\$3,411,665	\$4,025,855	(\$614,190)
3 Materials and Supplies	\$333,695	\$265,963	\$67,732
4 Outside Services	\$843,237	\$1,689,747	(\$846,510)
5 Advertising	\$911,521	\$874,531	\$36,990
6 Incentives	\$29,518,247	\$30,017,081	(\$498,834)
7 Vehicles	\$92,536	\$145,651	(\$53,115)
8 Other	\$10,119,767	\$7,985,586	\$2,134,181
9 Subtotal	\$46,617,552	\$46,442,446	\$175,106
Less: LED Street and Outdoor 10 Conversion Program	(\$198,450)	(\$174,294)	(\$24,156)
11 Less: Renewable Revenues	(\$127,985)	(\$192,313)	\$64,328
12 Total	\$46,291,117	\$46,075,839	\$215,278
13 Less: Renewable Program	\$37,421	\$27,854	\$9,567
14 Total Program Costs	\$46,328,538	\$46,103,693	\$224,845
15 Beginning of Period True-up Overrecovery	(\$20,908,081)	(\$20,908,081)	\$0
16 Amounts included in Base Rates	\$0	\$0	\$0
17 Conservation Adjustment Revenues	(\$30,030,121)	(\$29,839,670)	(\$190,451)
18 Regulatory Adjustments	(\$6,198,225)	\$0	(\$6,198,225)
19 True-up Before Interest	\$10,807,889	\$4,644,057	\$6,163,832
20 Interest Provision	\$10,397	\$22,574	(\$12,177)
21 End of Period True-up	\$10,818,286	\$4,666,631	\$6,151,655

SCHEDULE CT-2
 Page 2 of 4

TAMPA ELECTRIC COMPANY
 Actual Conservation Program Costs per Program
 For Months January 2021 through December 2021

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
D0083437 Residential Walk-Through Energy Audit	0	1,255,926	1,034	879	895,460	0	55,632	31,354	0	2,240,285
D0083432 Residential Customer Assisted Audit	0	2,796	0	0	0	0	0	427,850	0	430,646
D0083434, D0083317 Residential Computer Assisted Audit	0	0	0	0	0	0	0	0	0	-
D0083526 Residential Ceiling Insulation	0	55,515	0	0	0	110,221	0	1,750	0	167,486
D0083530 Residential Duct Repair	0	16,157	0	0	0	37,095	0	108	0	53,360
D0083488 Energy and Renewable Education, Awareness and Ager	10,267	76,313	108,609	42,880	21	0	0	693	0	238,783
D0083546 Energy Star Multi-Family	0	450	0	0	0	0	0	0	0	450
D0083541 Energy Star for New Homes	0	19,764	0	0	0	1,000,350	0	875	0	1,020,989
D0091086 Energy Star Pool Pumps	0	0	0	0	0	219,800	0	0	0	219,800
D0091087 Energy Star Thermostats	0	0	0	0	0	47,500	0	0	0	47,500
D0083332 Residential Heating and Cooling	0	62,569	0	0	0	382,995	0	1,325	0	446,889
D0083538 Neighborhood Weatherization	0	195,231	179,694	2,161	18	408,573	0	4,828	0	790,505
D0083542 Energy Planner	638,924	815,647	41,821	419,960	4,188	0	35,436	15,922	0	1,971,898
D0091106 Residential Prime Time Plus	0	0	0	475	0	0	0	0	0	475
D0083486 Residential Window Replacement	0	61,327	0	0	0	199,644	0	0	0	260,971
D0083335 Prime Time	0	6,083	129	18,361	0	0	0	297	0	24,870
D0083447 Commercial/Industrial Audit (Free)	0	231,647	561	0	11,834	0	1,132	7,762	0	252,936
D0083446 Comprehensive Commercial/Industrial Audit (Paid)	0	0	0	0	0	0	0	(420)	0	(420)
D0083534 Commercial Chiller	0	125	0	0	0	0	3	105	0	233
D0083487 Cogeneration	0	26,700	0	0	0	0	0	0	0	26,700
D0083318 Conservation Value	0	94	0	0	0	0	(3)	0	0	91
D0083543 Cool Roof	0	249	0	0	0	99,819	0	(85)	0	99,983
D0083540 Commercial Cooling	0	1,949	0	0	0	10,840	3	605	0	13,397
D0083533 Demand Response	0	27,235	0	0	0	2,785,200	0	486	0	2,812,921
D0091107 Facility Energy Management System	0	0	0	0	0	36,720	20	0	0	36,740
D0083506 Industrial Load Management (GLSM 2&3)	0	31,418	0	0	0	20,047,633	0	0	0	20,079,051
D0083547 LED Street and Outdoor Conversion Program	0	0	0	0	0	0	0	9,486,176	(198,450)	9,287,726
D0083528 Lighting Conditioned Space	0	52,277	816	0	0	432,762	224	1,186	0	487,265
D0083544 Lighting Non-Conditioned Space	0	48,530	0	0	0	133,683	36	728	0	182,977
D0083535 Lighting Occupancy Sensors	0	11,209	0	0	0	3,320	22	0	0	14,551
D0083527 CiLM (GLSM 1)	0	0	0	0	0	6,531	0	0	0	6,531
D0091108 Commercial Smart Thermostats	0	0	0	0	0	474	8	0	0	482
D0083529 Standby Generator	0	35,224	0	155,988	0	3,552,587	0	25,607	0	3,769,406
D0091109 Variable Frequency Drive Control for Compressors	0	0	0	0	0	2,500	18	0	0	2,518
D0083537 Commercial Water Heating	0	0	0	0	0	0	(3)	0	0	(3)
D0083539 Conservation Research and Development	0	901	26	(13,664)	0	0	0	0	0	(12,737)
D0083531 Renewable Energy Program (Sun to Go)	0	13,211	0	77,353	0	0	0	0	(127,985)	(37,421)
D0083328 Common Expenses	0	363,118	1,005	122,902	0	0	8	112,615	0	599,648
D0090066 Integrated Renewable Energy System (Pilot)	737,693	0	0	15,942	0	0	0	0	0	753,635
Total All Programs	1,386,884	3,411,665	333,695	843,237	911,521	29,518,247	92,536	10,119,767	(326,435)	46,291,117
Less Renewable Energy Program	-	13,211	-	77,353	-	-	-	-	(127,985)	(37,421)
Total Less Renewable Energy Program	1,386,884	3,398,454	333,695	765,884	911,521	29,518,247	92,536	10,119,767	(198,450)	46,328,538

TAMPA ELECTRIC COMPANY
 Conservation Program Costs per Program
 Variance - Actual vs. Projected
 For Months January 2021 through December 2021

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
D0083437 Residential Walk-Through Energy Audit	0	157,262	(2,752)	463	85,278	0	(33,584)	(7,262)	0	199,405
D0083432 Residential Customer Assisted Audit	0	(1,642)	(100)	(398,000)	0	0	0	427,850	0	28,108
D0083434, D0083317 Residential Computer Assisted Audit	0	(842)	0	0	0	0	0	(300)	0	(1,142)
D0083526 Residential Ceiling Insulation	0	5,945	0	0	0	5,480	(120)	500	0	11,805
D0083530 Residential Duct Repair	0	(5,466)	0	0	0	(9,130)	(120)	(1,142)	0	(15,858)
D0083488 Energy and Renewable Education, Awareness and Agenc	6	(38,701)	7,126	14,100	0	0	(400)	(4,230)	0	(22,099)
D0083546 Energy Star Multi-Family	0	240	0	0	0	0	0	0	0	240
D0083541 Energy Star for New Homes	0	(5,828)	0	0	0	(85,850)	(60)	(945)	0	(92,683)
D0091086 Energy Star Pool Pumps	0	(12,302)	0	0	0	41,300	0	(900)	0	28,098
D0091087 Energy Star Thermostats	0	(14,737)	0	0	0	(2,950)	0	(900)	0	(18,587)
D0083332 Residential Heating and Cooling	0	1,745	0	0	0	(53,595)	(60)	755	0	(51,155)
D0083538 Neighborhood Weatherization	0	(433,800)	87,749	(214,920)	(3,000)	(2,034,564)	(15,500)	577	0	(2,613,458)
D0083542 Energy Planner	(37,698)	(121,105)	(23,625)	(237,319)	(2,812)	0	(106)	(4,525)	0	(427,190)
D0091106 Residential Prime Time Plus	0	(39,805)	0	238	0	0	0	0	0	(39,567)
D0083447 Commercial/Industrial Audit (Free)	0	(1,368)	(1,368)	(310)	(42,476)	0	126	(1,596)	0	(46,992)
D0083446 Comprehensive Commercial/Industrial Audit (Paid)	0	(486)	0	(500)	0	0	(80)	0	0	(1,066)
D0083534 Commercial Chiller	0	(33)	0	0	0	(3,500)	3	0	0	(3,530)
D0083487 Cogeneration	0	(6,296)	0	0	0	0	(400)	0	0	(6,696)
D0083318 Conservation Value	0	(958)	0	0	0	0	(50)	0	0	(1,008)
D0083543 Cool Roof	0	0	0	0	0	8,339	0	0	0	8,339
D0083540 Commercial Cooling	0	1,435	0	0	0	8,350	(22)	500	0	10,263
D0083533 Demand Response	0	(2,206)	0	0	0	(253,200)	(500)	(1,900)	0	(257,806)
D0091107 Facility Energy Management System	0	(6,952)	0	0	0	(13,280)	(30)	0	0	(20,262)
D0083506 Industrial Load Management (GLSM 2&3)	0	(8,416)	0	0	0	1,824,680	(900)	(113)	0	1,815,251
D0083547 LED Street and Outdoor Conversion Program	0	0	0	0	0	0	0	1,728,794	(24,156)	1,704,638
D0083528 Lighting Conditioned Space	0	(730)	816	0	0	144,721	(126)	(1,207)	0	143,474
D0083544 Lighting Non-Conditioned Space	0	(1,472)	0	0	0	30,964	(289)	(620)	0	28,583
D0083535 Lighting Occupancy Sensors	0	250	0	0	0	(4,840)	(3)	0	0	(4,593)
D0083527 CILM (GLSM 1)	0	0	0	0	0	0	0	0	0	0
D0091108 Commercial Smart Thermostats	0	(10,294)	0	0	0	(58,326)	(142)	(300)	0	(69,062)
D0083529 Standby Generator	0	(10,819)	0	9,737	0	(26,201)	(500)	1,197	0	(26,586)
D0091109 Variable Frequency Drive Control for Compressors	0	(5,780)	0	0	0	(7,500)	(32)	0	0	(13,312)
D0083537 Commercial Water Heating	0	0	0	0	0	0	0	0	0	0
D0083539 Conservation Research and Development	0	(1,410)	26	0	0	0	0	0	0	(1,384)
D0083531 Renewable Energy Program (Sun to Go)	0	(1,820)	0	(72,000)	0	0	0	(75)	64,328	(9,567)
D0083328 Common Expenses	0	(38,836)	(140)	48,210	0	0	0	323	0	9,557
D0090066 Integrated Renewable Energy System (Pilot)	(13,456)	(6,883)	0	2,188	0	0	(100)	0	0	(18,251)
Total All Programs	(51,148)	(614,190)	67,732	(846,510)	36,990	(498,834)	(53,115)	2,134,181	40,172	215,278
Less Renewable Energy Program	0	(1,820)	0	(72,000)	0	0	0	(75)	64,328	(9,567)
Total Less Renewable Energy Program	(51,148)	(612,370)	67,732	(774,510)	36,990	(498,834)	(53,115)	2,134,256	(24,156)	224,845

SCHEDULE CT-2
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TAMPA ELECTRIC COMPANY
 Description for Accounts
 For Months January 2021 through December 2021

Internal Order	Program Name
D0083437	Residential Walk-Through Energy Audit
D0083432	Residential Customer Assisted Audit
D0083434, D0083317	Residential Computer Assisted Audit
D0083526	Residential Ceiling Insulation
D0083530	Residential Duct Repair
D0083488	Energy and Renewable Education, Awareness and Agency Outreach
D0083546	Energy Star Multi-Family
D0083541	Energy Star for New Homes
D0091086	Energy Star Pool Pumps
D0091087	Energy Star Thermostats
D0083332	Residential Heating and Cooling
D0083538	Neighborhood Weatherization
D0083542	Energy Planner
D0091106	Residential Prime Time Plus
D0083486	Residential Window Replacement
D0083335	Prime Time
D0083447	Commercial/Industrial Audit (Free)
D0083446	Comprehensive Commercial/Industrial Audit (Paid)
D0083534	Commercial Chiller
D0083532	Commercial Ceiling Insulation
D0083487	Cogeneration
D0083318	Conservation Value
D0083543	Cool Roof
D0083540	Commercial Cooling
D0083533	Demand Response
D0091107	Facility Energy Management System
D0083506	Industrial Load Management (GLSM 2&3)
D0083547	LED Street and Outdoor Conversion Program
D0083528	Lighting Conditioned Space
D0083544	Lighting Non-Conditioned Space
D0083535	Lighting Occupancy Sensors
D0083527	CILM (GLSM 1)
D0091108	Commercial Smart Thermostats
D0083529	Standby Generator
D0091109	Variable Frequency Drive Control for Compressors
D0083537	Commercial Water Heating
D0083539	Conservation Research and Development
D0083531	Renewable Energy Program (Sun to Go)
D0083328	Common Expenses
D0090066	Integrated Renewable Energy System (Pilot)

TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Summary of Expenses by Program by Month
For Months January 2021 through December 2021

Program Name	January	February	March	April	May	June	July	August	September	October	November	December	Total
D0083437 Residential Walk-Through Energy Audit	97,044	117,975	204,562	109,747	175,608	148,237	214,520	287,107	141,416	368,462	126,208	249,399	2,240,285
D0083432 Residential Customer Assisted Audit	114	200	86	171	171	200	428,107	200	883	171	114	229	430,646
D0083434, D0083317 Residential Computer Assisted Audit	0	0	0	0	0	0	0	0	0	0	0	0	0
D0083526 Residential Ceiling Insulation	11,854	11,282	9,842	15,544	18,360	14,762	14,515	11,711	18,271	13,733	14,934	12,678	167,486
D0083530 Residential Duct Repair	1,081	1,281	10,298	1,288	5,704	4,098	1,882	6,692	1,384	4,531	10,420	4,701	53,360
D0083488 Energy and Renewable Education, Awareness &	13,382	38,898	49,477	10,669	10,326	49,381	29,329	3,766	3,332	9,328	14,895	6,000	238,783
D0083546 Energy Star Multi-Family	0	42	20	0	148	0	240	0	0	0	0	0	450
D0083541 Energy Star for New Homes	52,637	160,338	39,608	72,341	69,925	251,250	81,639	75,155	84,111	48,581	58,214	27,190	1,020,989
D0091086 Energy Star Pool Pumps	10,500	9,450	13,650	13,650	16,100	25,900	26,950	23,450	23,100	22,050	18,900	16,100	219,800
D0091087 Energy Star Thermostats	3,550	3,700	4,050	3,400	4,000	4,750	3,750	3,500	3,450	2,750	4,650	5,950	47,500
D0083332 Residential Heating and Cooling	35,408	31,097	43,323	41,901	39,219	46,644	36,823	45,897	33,874	33,303	34,651	24,749	446,889
D0083538 Neighborhood Weatherization	43,805	90,606	15,371	19,900	45,144	45,227	16,912	21,059	75,705	144,345	116,948	155,483	790,505
D0083542 Energy Planner	143,386	155,259	247,131	168,681	146,783	147,659	163,926	153,214	163,743	141,177	156,998	183,941	1,971,898
D0091106 Residential Prime Time Plus	0	0	237	0	0	0	0	0	0	0	0	238	475
D0083486 Residential Window Replacement	57,912	24,703	22,401	19,930	16,725	15,913	19,054	18,850	15,746	15,807	16,527	17,403	260,971
D0083335 Prime Time	550	5,311	632	3,721	820	1,169	5,291	860	373	5,544	440	159	24,870
D0083447 Commercial/Industrial Audit (Free)	11,965	18,620	19,339	16,710	18,800	22,865	33,036	27,322	19,332	20,509	19,799	24,639	252,936
D0083446 Comprehensive Commercial/Industrial Audit (P)	(420)	0	0	0	0	0	0	0	0	0	0	0	(420)
D0083534 Commercial Chiller	0	105	0	0	0	0	0	0	0	0	0	128	233
D0083487 Cogeneration	1,723	2,310	2,249	2,188	2,276	2,195	2,800	2,303	2,184	2,256	1,695	2,521	26,700
D0083318 Conservation Value	(3)	0	0	0	0	94	0	0	0	0	0	0	91
D0083543 Cool Roof	13,418	7,427	0	0	0	70,799	0	0	0	0	8,339	0	99,983
D0083540 Commercial Cooling	1,867	173	0	0	322	31	130	262	3,322	131	672	6,487	13,397
D0083533 Demand Response	254,916	255,312	255,316	255,530	255,413	255,213	256,810	255,404	255,281	255,827	1,993	255,906	2,812,921
D0091107 Facility Energy Management System	0	0	0	0	0	0	0	0	0	11,720	25,006	14	36,740
D0083506 Industrial Load Management (GLSM 2&3)	1,741,068	1,432,272	1,414,851	1,781,534	1,331,955	1,987,129	1,742,127	1,759,818	1,849,194	1,718,045	1,435,430	1,885,628	20,079,051
D0083547 LED Street and Outdoor Conversion Program	2,065,746	227,625	1,187,110	162,082	1,243,072	399,075	625,716	1,912,907	592,066	50	623,843	248,434	9,287,726
D0083528 Lighting Conditioned Space	5,603	26,320	30,111	15,982	18,576	84,043	91,709	43,396	26,206	58,585	50,170	36,564	487,265
D0083544 Lighting Non-Conditioned Space	20,816	8,658	12,921	18,743	6,786	18,885	36,546	6,043	7,908	25,738	9,416	10,517	182,977
D0083535 Lighting Occupancy Sensors	722	809	1,760	769	809	971	1,382	998	2,170	688	1,679	1,794	14,551
D0083527 CILM (GLSM 1)	0	0	0	933	933	933	933	933	933	933	0	0	6,531
D0091108 Commercial Smart Thermostats	0	0	0	0	0	0	324	150	0	0	0	8	482
D0083529 Standby Generator	310,900	312,247	311,214	311,803	311,523	310,966	314,532	309,337	327,569	304,311	316,531	328,473	3,769,406
D0091109 Variable Frequency Drive Control for Compress	0	0	0	0	2,500	0	0	0	0	0	0	18	2,518
D0083537 Commercial Water Heating	(3)	0	0	0	0	0	0	0	0	0	0	0	(3)
D0083539 Conservation Research and Development	(13,754)	0	0	90	0	0	0	0	0	338	364	225	(12,737)
D0083531 Renewable Energy Program (Sun to Go)	(9,945)	(9,024)	31,372	(8,940)	(14,046)	27,918	(9,061)	(9,390)	(9,560)	(9,433)	(9,039)	(8,273)	(37,421)
D0083328 Common Expenses	45,145	50,105	67,377	41,658	37,680	39,513	52,662	92,520	35,747	48,686	45,110	43,445	599,648
D0090066 Integrated Renewable Energy System (Pilot)	21,315	9,399	14,735	21,566	25,244	89,801	91,743	94,006	101,738	92,692	95,236	96,160	753,635
Total All Programs	4,942,302	2,992,500	4,009,043	3,101,591	3,790,876	4,065,621	4,284,327	5,147,470	3,779,478	3,340,858	3,200,143	3,636,908	46,291,117
Less Renewable Energy Program	(9,945)	(9,024)	31,372	(8,940)	(14,046)	27,918	(9,061)	(9,390)	(9,560)	(9,433)	(9,039)	(8,273)	(37,421)
Total Less Renewable Energy Program	4,952,247	3,001,524	3,977,671	3,110,531	3,804,922	4,037,703	4,293,388	5,156,860	3,789,038	3,350,291	3,209,182	3,645,181	46,328,538

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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up and Interest Provision
For Months January 2021 through December 2021

Description	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Residential Conservation Audit Fees (A)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Conservation Adjustment Revenues *	2,284,915	2,124,277	2,075,592	2,204,992	2,477,600	2,814,032	2,844,569	2,960,597	\$3,030,938	2,748,777	2,346,301	2,117,531	30,030,121
3 Total Revenues	2,284,915	2,124,277	2,075,592	2,204,992	2,477,600	2,814,032	2,844,569	2,960,597	\$3,030,938	2,748,777	2,346,301	2,117,531	30,030,121
4 Prior Period True-up	<u>1,441,008</u>	<u>1,441,008</u>	<u>1,441,008</u>	<u>1,441,008</u>	<u>1,441,008</u>	<u>1,441,008</u>	<u>1,441,008</u>	<u>1,441,008</u>	<u>1,441,008</u>	<u>1,441,008</u>	<u>1,441,008</u>	<u>1,441,012</u>	<u>17,292,100</u>
5 Conservation Revenue Applicable to Period	3,725,923	3,565,285	3,516,600	3,646,000	3,918,608	4,255,040	4,285,577	4,401,605	\$4,471,946	4,189,785	3,787,309	3,558,543	47,322,221
6 Conservation Expenses	<u>4,952,247</u>	<u>3,001,524</u>	<u>3,977,671</u>	<u>3,110,531</u>	<u>3,804,922</u>	<u>4,037,703</u>	<u>4,293,388</u>	<u>5,156,860</u>	<u>\$3,789,038</u>	<u>3,350,291</u>	<u>3,209,182</u>	<u>3,645,181</u>	46,328,538
8 Regulatory Adjustments	0	0	0	0	0	0	0	0	0	0	0	6,198,225	6,198,225
7 True-up This Period (Line 5 - Line 6)	(1,226,324)	563,761	(461,071)	535,469	113,686	217,337	(7,811)	(755,255)	\$682,908	839,494	578,127	(86,638)	993,683
9 Interest Provision This Period	1,762	1,602	1,313	1,201	695	631	677	473	399	439	526	679	10,397
10 True-up & Interest Provision Beginning of Period	\$20,908,081	18,242,511	17,366,866	15,466,100	14,561,762	13,235,135	12,012,095	10,563,953	\$8,368,163	7,610,462	7,009,387	6,147,032	20,908,081
11 Prior Period True-up Collected (Refunded)	<u>(1,441,008)</u>	<u>(1,441,008)</u>	<u>(1,441,008)</u>	<u>(1,441,008)</u>	<u>(1,441,008)</u>	<u>(1,441,008)</u>	<u>(1,441,008)</u>	<u>(1,441,008)</u>	<u>(\$1,441,008)</u>	<u>(1,441,008)</u>	<u>(1,441,008)</u>	<u>(1,441,012)</u>	<u>(17,292,100)</u>
12 End of Period Total Net True-up	<u>\$18,242,511</u>	<u>\$17,366,866</u>	<u>\$15,466,100</u>	<u>\$14,561,762</u>	<u>\$13,235,135</u>	<u>\$12,012,095</u>	<u>\$10,563,953</u>	<u>\$8,368,163</u>	<u>\$7,610,462</u>	<u>\$7,009,387</u>	<u>\$6,147,032</u>	<u>\$10,818,286</u>	<u>\$10,818,286</u>

* Net of Revenue Taxes

(A) Included in Line 6

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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up and Interest Provision
For Months January 2021 through December 2021

Interest Provision	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Beginning True-up Amount	\$20,908,081	\$18,242,511	\$17,366,866	\$15,466,100	\$14,561,762	\$13,235,135	\$12,012,095	\$10,563,953	\$8,368,163	\$7,610,462	\$7,009,387	\$6,147,032	
2 Ending True-up Amount Before Interest	18,240,749	17,365,264	15,464,787	14,560,561	13,234,440	12,011,464	10,563,276	8,367,690	7,610,063	7,008,948	6,146,506	10,817,607	
3 Total Beginning & Ending True-up	<u>39,148,830</u>	<u>35,607,775</u>	<u>32,831,653</u>	<u>30,026,661</u>	<u>27,796,202</u>	<u>25,246,599</u>	<u>22,575,371</u>	<u>18,931,643</u>	<u>15,978,226</u>	<u>14,619,410</u>	<u>13,155,893</u>	<u>16,964,639</u>	
4 Average True-up Amount (50% of Line 3)	<u>19,574,415</u>	<u>17,803,888</u>	<u>16,415,827</u>	<u>15,013,331</u>	<u>13,898,101</u>	<u>12,623,300</u>	<u>11,287,686</u>	<u>9,465,822</u>	<u>7,989,113</u>	<u>7,309,705</u>	<u>6,577,947</u>	<u>8,482,320</u>	
5 Interest Rate - First Day of Month	0.100000	0.120000	0.090000	0.110000	0.070000	0.040000	0.080000	0.060000	0.060000	0.070000	0.080000	0.110000	
6 Interest Rate - First Day of Next Month	0.120000	0.090000	0.110000	0.070000	0.040000	0.080000	0.060000	0.060000	0.070000	0.080000	0.110000	0.080000	
7 Total (Line 5 + Line 6)	0.220000	0.210000	0.200000	0.180000	0.110000	0.120000	0.140000	0.120000	0.130000	0.150000	0.190000	0.190000	
8 Average Interest Rate (50% of Line 7)	0.110000	0.105000	0.100000	0.090000	0.055000	0.060000	0.070000	0.060000	0.065000	0.075000	0.095000	0.095000	
9 Monthly Average Interest Rate (Line 8/12)	0.000090	0.000090	0.000080	0.000080	0.000050	0.000050	0.000060	0.000050	0.000050	0.000060	0.000080	0.000080	
10 Interest Provision (Line 4 x Line 9)	\$1,762	\$1,602	\$1,313	\$1,201	\$695	\$631	\$677	\$473	\$399	\$439	\$526	\$679	\$10,397

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2021 through December 2021

PRICE RESPONSIVE LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		\$0	\$326	\$0	\$0	\$4,606	\$4,606	\$18,526	\$0	\$6,270	\$0	\$168,065	\$103,505	\$305,904
2 Retirements		\$84,005	\$109,085	\$127,551	\$61,833	\$46,833	\$87,818	\$26,316	\$93,121	\$38,688	\$49,204	\$59,032	\$400	\$783,886
3 Depreciation Base		3,087,287	2,978,527	2,850,976	2,789,143	2,746,916	2,663,705	2,655,915	2,562,794	2,530,376	2,481,172	2,590,205	2,693,310	
4 Depreciation Expense		<u>52,155</u>	<u>50,548</u>	<u>48,579</u>	<u>47,001</u>	<u>46,134</u>	<u>45,089</u>	<u>44,330</u>	<u>43,489</u>	<u>42,443</u>	<u>41,763</u>	<u>42,261</u>	<u>44,029</u>	<u>547,821</u>
5 Cumulative Investment	3,171,293	\$3,087,287	\$2,978,527	\$2,850,976	\$2,789,143	\$2,746,916	\$2,663,705	\$2,655,915	\$2,562,794	\$2,530,376	\$2,481,172	\$2,590,205	\$2,693,310	\$2,693,310
6 Less: Accumulated Depreciation	1,769,120	1,737,269	1,678,732	1,599,760	1,584,928	1,584,229	1,541,500	1,559,514	1,509,882	1,513,638	1,506,197	1,489,426	1,533,055	1,533,055
7 Net Investment	<u>\$1,402,173</u>	<u>\$1,350,018</u>	<u>\$1,299,795</u>	<u>\$1,251,216</u>	<u>\$1,204,215</u>	<u>\$1,162,687</u>	<u>\$1,122,205</u>	<u>\$1,096,401</u>	<u>\$1,052,912</u>	<u>\$1,016,738</u>	<u>\$974,975</u>	<u>\$1,100,779</u>	<u>\$1,160,255</u>	<u>\$1,160,255</u>
8 Average Investment		1,376,095	1,324,907	1,275,506	1,227,716	1,183,451	1,142,446	1,109,303	1,074,657	1,034,825	995,857	1,037,877	1,130,517	
9 Return on Average Investment - Equity Component		7,148	6,882	6,626	6,377	6,147	5,934	5,762	5,582	5,375	5,173	5,391	5,872	72,269
10 Return on Average Investment - Debt Component		<u>1,863</u>	<u>1,793</u>	<u>1,727</u>	<u>1,662</u>	<u>1,602</u>	<u>1,546</u>	<u>1,502</u>	<u>1,455</u>	<u>1,401</u>	<u>1,348</u>	<u>1,405</u>	<u>1,530</u>	<u>18,834</u>
11 Total Depreciation and Return		<u>\$61,166</u>	<u>\$59,223</u>	<u>\$56,932</u>	<u>\$55,040</u>	<u>\$53,883</u>	<u>\$52,569</u>	<u>\$51,594</u>	<u>\$50,526</u>	<u>\$49,219</u>	<u>\$48,284</u>	<u>\$49,057</u>	<u>\$51,431</u>	<u>\$638,924</u>

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 6.2333% x 1/12 (Jan-Dec). Based on ROE of 10.25% and weighted income tax rate of 23.793% (expansion factor of 1.31559).
Line 10 x 1.6243% x 1/12 (Jan-Dec).

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2021 through December 2021

INDUSTRIAL LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Retirements		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3 Depreciation Base		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
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	
9 Return on Average Investment		0	0	0	0	0	0	0	0	0	0	0	0	0
10 Return Requirements		0	0	0	0	0	0	0	0	0	0	0	0	0
11 Total Depreciation and Return		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 6.2333% x 1/12 (Jan-Dec). Based on ROE of 10.25% and weighted income tax rate of 23.793% (expansion factor of 1.31559).
Line 10 x 1.6243% x 1/12 (Jan-Dec).

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2021 through December 2021

ENERGY EDUCATION AWARENESS

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Retirements		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3 Depreciation Base		43,732	43,732	43,732	43,732	43,732	43,732	43,732	43,732	43,732	43,732	43,732	43,732	
4 Depreciation Expense		729	729	729	729	729	729	729	729	729	729	729	729	8,748
5 Cumulative Investment	43,732	\$43,732	\$43,732	\$43,732	\$43,732	\$43,732	\$43,732	\$43,732	\$43,732	\$43,732	\$43,732	\$43,732	\$43,732	\$43,732
6 Less: Accumulated Depreciation	20,086	20,815	21,543	22,272	23,001	23,730	24,459	25,188	25,917	26,646	27,374	28,103	28,832	28,832
7 Net Investment	\$23,646	\$22,917	\$22,189	\$21,460	\$20,731	\$20,002	\$19,273	\$18,544	\$17,815	\$17,086	\$16,358	\$15,629	\$14,900	\$14,900
8 Average Investment		23,282	22,553	21,825	21,096	20,367	19,638	18,909	18,180	17,451	16,722	15,994	15,265	
9 Return on Average Investment - Equity Component		121	117	113	110	106	102	98	94	91	87	83	79	1,201
10 Return on Average Investment - Debt Component		32	31	30	29	28	27	26	25	24	23	22	21	318
11 Total Depreciation and Return		\$882	\$877	\$872	\$868	\$863	\$858	\$853	\$848	\$844	\$839	\$834	\$829	\$10,267

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 6.2333% x 1/12 (Jan-Dec). Based on ROE of 10.25% and weighted income tax rate of 23.793% (expansion factor of 1.31559).
Line 10 x 1.6243% x 1/12 (Jan-Dec).

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2021 through December 2021

COMMERCIAL LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Retirements		\$0	\$0	\$0	\$0	\$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
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		-	-	-	-	-	-	-	-	-	-	-	-	-
11 Total Depreciation and Return		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 6.2333% x 1/12 (Jan-Dec). Based on ROE of 10.25% and weighted income tax rate of 23.793% (expansion factor of 1.31559).
Line 10 x 1.6243% x 1/12 (Jan-Dec).

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2021 through December 2021

INTEGRATED RENEWABLE ENERGY SYSTEMS (PILOT)

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Expenditures/Additions		\$9,705	\$551,740	\$1,078,233	\$1,008,126	\$112,634	\$61,264	\$56,211	\$481,955	-\$431,532	\$8,334	\$194,122	-\$92,043	\$ 3,038,750
2 In-Service		\$0	\$0	\$0	\$0	\$3,852,835	\$118,650	\$56,211	\$481,955	-\$431,532	\$8,334	\$194,122	-\$92,043	\$ 4,188,533
3 Retirements		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
4 Depreciation Base		0	0	0	0	3,852,835	3,971,485	4,027,696	4,509,651	4,078,119	4,086,454	4,280,576	4,188,533	
5 Depreciation Expense		0	0	0	0	0	64,214	66,191	67,128	75,161	67,969	68,108	71,343	480,114
6 Cumulative Investment In-Service	0	\$0	\$0	\$0	\$0	\$3,852,835	\$3,971,485	\$4,027,696	\$4,509,651	\$4,078,119	\$4,086,454	\$4,280,576	\$4,188,533	\$4,188,533
7 Less: Accumulated Depreciation	0	0	0	0	0	0	64,214	130,405	197,533	272,694	340,663	408,771	480,114	480,114
8 CWIP	1,149,783	\$1,159,488	\$1,711,228	\$2,789,461	\$3,797,587	\$57,386	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
9 Net Investment	<u>\$1,149,783</u>	<u>\$1,159,488</u>	<u>\$1,711,228</u>	<u>\$2,789,461</u>	<u>\$3,797,587</u>	<u>\$3,910,221</u>	<u>\$3,907,271</u>	<u>\$3,897,291</u>	<u>\$4,312,118</u>	<u>\$3,805,425</u>	<u>\$3,745,791</u>	<u>\$3,871,805</u>	<u>\$3,708,420</u>	<u>\$3,708,420</u>
10 Average Investment		1,154,636	1,435,358	2,250,345	3,293,524	3,853,904	3,908,746	3,902,281	4,104,705	4,058,772	3,775,608	3,808,798	3,790,113	
11 Return on Average Investment - Equity Component		5,998	7,456	11,689	17,108	20,019	20,304	20,270	21,322	21,083	19,612	19,784	19,687	204,332
12 Return on Average Investment - Debt Component		<u>1,563</u>	<u>1,943</u>	<u>3,046</u>	<u>4,458</u>	<u>5,217</u>	<u>5,291</u>	<u>5,282</u>	<u>5,556</u>	<u>5,494</u>	<u>5,111</u>	<u>5,156</u>	<u>5,130</u>	<u>53,247</u>
13 Total Depreciation and Return		<u>\$7,561</u>	<u>\$9,399</u>	<u>\$14,735</u>	<u>\$21,566</u>	<u>\$25,236</u>	<u>\$89,809</u>	<u>\$91,743</u>	<u>\$94,006</u>	<u>\$101,738</u>	<u>\$92,692</u>	<u>\$93,048</u>	<u>\$96,160</u>	<u>\$737,693</u>

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 6.2333% x 1/12 (Jan-Dec). Based on ROE of 10.25% and weighted income tax rate of 23.793% (expansion factor of 1.31559).
Line 10 x 1.6243% x 1/12 (Jan-Dec).

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SCHEDULE CT-5
Page 1 of 1

TAMPA ELECTRIC COMPANY
Reconciliation and Explanation of
Difference Between Filing and FPSC Audit
For Months January 2021 through December 2021

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

Program Description and Progress

Program Title: Energy Audits

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating:
Residential Walk-Through: 1,035
Residential Customer Assisted: 68,540
Residential Computer Assisted: 0
Commercial/Industrial: 101
Commercial/Industrial Comprehensive: 0

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$2,923,447.

Program Progress Summary: Through this reporting period 368,598 customers have participated in on-site audits. Additionally, 337,914 customers have participated in company processed residential and commercial customer assisted audits.

Program Description and Progress

Program Title: Residential Ceiling Insulation

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 382

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$167,486.

Program Progress Summary: Through this reporting period 124,604 customers have participated.

Program Description and Progress

Program Title: Residential Duct Repair

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 267

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$53,360.

Program Progress Summary: Through this reporting period 103,991 customers have participated.

Program Description and Progress

Program Title: Energy Education, Awareness and Agency Outreach

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

Program Accomplishments: January 1, 2021 to December 31, 2021

In this reporting period Tampa Electric partnered with zero local schools to present Energy Education through classroom video presentations. Tampa Electric also continues to partner with Junior Achievement BizTown, however due to COVID-19 restriction zero, Energy Education presentations were able to be held. In addition, the company gave 7 presentations to civic organizations prior to COVID-19 and distributed 810 energy saving kits to participating customers. As well as presented electric vehicle education to 743 students at 3 local high schools.

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$238,783.

Program Progress Summary: Through this reporting period Tampa Electric has partnered with 139 local schools to present Energy Education to 41,309 students and Electric Vehicle Education to 1,782 with 3 local high schools. In addition, the company gave 202 presentations to civic organizations that generated 1,423 customer assisted audits and distributed 9,142 energy saving kits to participating customers.

Program Description and Progress

Program Title: ENERGY STAR for New Multi-Family Residences

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$450.

Program Progress Summary: Through this reporting period 264 customers have participated.

Program Description and Progress

Program Title: ENERGY STAR for New Homes

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 1,006

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$1,020,989.

Program Progress Summary: Through this reporting period 16,347 customers have participated.

Program Description and Progress

Program Title: ENERGY STAR Pool Pumps

Program Description: The ENERGY STAR Pool Pumps Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing high efficiency ENERGY STAR rated pool pumps to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. High efficiency pool pumps require less demand and energy as compared to standard systems. This program will rebate residential customers that install a qualifying pool pump.

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 628

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$219,800.

Program Progress Summary: Through this reporting period 638 customers have participated.

Program Description and Progress

Program Title: ENERGY STAR Thermostats

Program Description: The ENERGY STAR Thermostats Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing an ENERGY STAR certified smart thermostat to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. Smart thermostats are designed to reduce demand and energy by decreasing the load on residential air conditioning and heating equipment and providing energy usage information regarding the heating and cooling system's settings and usage. This program will rebate residential customers that install a qualifying thermostat.

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 950

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$47,500.

Program Progress Summary: Through this reporting period 992 customers have participated.

Program Description and Progress

Program Title: Residential Heating and Cooling

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 2,839

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$446,889.

Program Progress Summary: Through this reporting period 214,821 customers have participated.

Program Description and Progress

Program Title: Neighborhood Weatherization

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 2,923

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$790,505.

Program Progress Summary: Through this reporting period 54,744 customers have participated.

Program Description and Progress

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

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of net customers participating: 98

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$1,971,898.

Program Progress Summary: Through this reporting period 6,019 customers have participated.

Program Description and Progress

Program Title: Residential Prime Time Plus

Program Description: Tampa Electric's "Prime Time Plus" is a residential load management program designed to alter the company's system load curve by reducing summer and winter demand peaks. Residential loads such as heating, air conditioning, water heaters and pool pumps will be controlled via the company's advanced metering infrastructure ("AMI") when that system fully becomes available. In addition, the customer will receive the same programmable "smart thermostat" and access to the web portal offered in the Energy Planner program. The web portal and "smart thermostat" allow the customer to change thermostat settings from any web connected device. The program will leverage the company's AMI to provide the communication with the installed thermostat and customer selected appliances for load control.

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of net customers participating: 0

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$475.

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

Program Description and Progress

Program Title: Residential Window Replacement

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 1,176

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$260,971.

Program Progress Summary: Through this reporting period 19,524 customers have participated.

Program Description and Progress

Program Title: Prime Time

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

Program Accomplishments: January 1, 2021 to December 31, 2021

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$24,870.

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

Program Description and Progress

Program Title: Commercial Chiller

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$233.

Program Progress Summary: Through this reporting period 75 customers have participated.

Program Description and Progress

Program Title:	<u>Cogeneration</u>
Program Description:	Tampa Electric's Cogeneration program is administered by a professional team experienced in working with cogenerators. The group manages functions related to coordination with Qualifying Facilities ("QFs") including negotiations, agreements and informational requests; functions related to governmental, regulatory and legislative bodies; research, development, data acquisition and analysis; economic evaluations of existing and proposed QFs as well as the preparation of Tampa Electric's Annual Twenty-Year Cogeneration Forecast.
Program Accomplishments:	<u>January 1, 2021 to December 31, 2021</u> The company continued communication and interaction with all present and potential customers. Tampa Electric completed the development and publication of the 20-Year Cogeneration Forecast, reviewed proposed cogeneration opportunities for cost-effectiveness and answered data requests from existing cogenerators. The company also attended meetings as scheduled with cogeneration customer personnel at selected facilities.
Program Fiscal Expenditures:	<u>January 1, 2021 to December 31, 2021</u> Actual expenses were \$26,700.
Program Progress Summary:	At the end of 2021, there are seven cogeneration Qualifying Facilities ("QFs") that are on-line in Tampa Electric's service area. The total nameplate generation capacity of these seven interconnected cogeneration facilities is 398.3 MW. During 2021, the company received 63 GWh from these facilities. The company continues interaction with current and potential cogeneration developers regarding on-going and future cogeneration activities.

Program Description and Progress

Program Title: Conservation Value

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$91.

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

Program Description and Progress

Program Title: Cool Roof

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 4

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$99,983.

Program Progress Summary: Through this reporting period 294 customers have participated.

Program Description and Progress

Program Title: Commercial Cooling

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 44

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$13,397.

Program Progress Summary: Through this reporting period 2,396 customers have participated.

Program Description and Progress

Program Title: Demand Response

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

Program Accomplishments: January 1, 2021 to December 31, 2021

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$2,812,921.

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

Program Description and Progress

Program Title: Facility Energy Management System

Program Description: The Facility Energy Management System Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing a facility energy management system that provides real time operational, production and energy consumption information which enables the customer to reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install a qualifying facility energy management system.

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 2

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$36,740.

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

Program Description and Progress

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

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

Program Accomplishments: January 1, 2021 to December 31, 2021
Net new customers participating: 0

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021
Actual expenses were \$20,079,051.

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

Beginning May 2009, Tampa Electric transferred existing IS (non-firm) customers to a new IS (firm) rate schedule. Beginning January 2022, Tampa Electric closed the IS (firm) rate schedule and transferred these customers to either GSD or GSLD. These customers continue to be incented under GSLM-2 or GSLM-3 rate riders with expenses recovered through the ECCR clause.

Program Description and Progress

Program Title: Commercial Street and Outdoor Lighting Conversion

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of luminaires retired: 69,231

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Net expenditures were \$9,287,726.

Program Progress Summary: Through this reporting period 159,002 luminaires have been converted.

Program Description and Progress

Program Title: Lighting Conditioned Space

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 143

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$487,265.

Program Progress Summary: Through this reporting period 3,115 customers have participated.

Program Description and Progress

Program Title: Lighting Non-Conditioned Space

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 101

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$182,977.

Program Progress Summary: Through this reporting period 1,123 customers have participated.

Program Description and Progress

Program Title: Lighting Occupancy Sensors

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 4

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$14,551.

Program Progress Summary: Through this reporting period 234 customers have participated.

Program Description and Progress

Program Title: Commercial Load Management

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Net new customers participating: 0

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$6,531.

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

Program Description and Progress

Program Title: Commercial Smart Thermostats

Program Description: The Commercial Smart Thermostat Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing smart thermostats to help reduce their demand while reducing Tampa Electric's weather sensitive peak demand. Smart thermostats are designed to reduce demand and energy by decreasing the load on commercial/industrial air conditioning and heating equipment and providing energy usage information regarding the heating and cooling system's settings and usage. This program will rebate commercial/industrial customers that install qualifying thermostat(s).

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 2

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$482.

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

Program Description and Progress

Program Title: Standby Generator

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Net new customers participating: 6

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$3,769,406.

Program Progress Summary: Through this reporting period there are 113 participating customers.

Program Description and Progress

Program Title: Variable Frequency Drive Control for Compressors

Program Description: The Variable Frequency Drive Control for Compressors Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing variable frequency drives to their new or existing refrigerant or air compressor motors to help reduce their demand while reducing Tampa Electric's weather sensitive peak demand. Tampa Electric will provide a rebate to customers who install a qualifying variable frequency drive.

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 1

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$2,518.

Program Progress Summary: Through this reporting period one customer has participated.

Program Description and Progress

Program Title: Commercial Water Heating

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were (\$3).

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

Program Description and Progress

Program Title: Integrated Renewable Energy System (Pilot)

Program Description: The commercial/industrial Integrated Renewable Energy System Program is a five-year pilot program to study the capabilities and DSM opportunities of a fully integrated renewable energy system. The integrated renewable energy system will include an approximate 800 kW photovoltaic array, two-250 kW batteries, and several electric vehicle charging systems to charge electric vehicles, industrial vehicles and auxiliary industrial vehicle batteries. The pilot program will have two main purposes. The first main purpose is to evaluate the capability to perform demand response from the main batteries and each vehicle battery and to determine the preferred operating characteristics of a fully integrated renewable and energy storage system to leverage DSM opportunities. The second main purpose is to use the installation and its associated operational information as an education platform for commercial and industrial customers seeking information on this type of system and its benefits, concerns and capabilities.

Program Accomplishments: January 1, 2021 to December 31, 2021

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$753,635.

Program Progress Summary: Tampa Electric has completed the construction of the integrated renewable energy system. The company will initiate the pilot program upon completion of the commissioning of the system in 2022.

Program Description and Progress

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

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

Program Accomplishments: January 1, 2021 to December 31, 2021

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were (\$12,737).

Program Progress Summary: For 2021, the company continued to make progress with Research and Development ("R&D") efforts by completing the home energy management system evaluation.

Program Description and Progress

Program Title: Renewable Energy Program

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

Program Accomplishments: January 1, 2021 to December 31, 2021

Year-end customers participating:	1,146
Number of net customers participating:	-86
Blocks of energy purchased:	1,944
One-time blocks of energy sold:	970

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$90,564.
Actual program revenues were \$127,985.

Program Progress Summary: In this reporting period 25,582 monthly and one-time blocks of renewable energy have been purchased.

Program Description and Progress

Program Title: Common Expenses

Program Description: These are expenses common to all programs.

Program Accomplishments: January 1, 2021 to December 31, 2021

N/A

Program Fiscal Expenditures: January 1, 2021 to December 31, 2021

Actual expenses were \$599,648.

Program Progress Summary: N/A