BEFORE THE

FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 20210002-EG

IN RE: ENERGY CONSERVATION COST RECOVERY CLAUSE

TESTIMONY AND EXHIBIT

OF

MARK R. ROCHE

FILED: May 3, 2021

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

MARK R. ROCHE

Q. Please state your name, address, occupation and employer.

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

Q. Please provide a brief outline of your educational background and business experience.

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

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

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

A. The purpose of my testimony is to present and support for Commission review and approval the company's actual DSM programs related true-up costs incurred during the January through December 2020 period.

Q. Did you prepare any exhibits in support of your testimony?

A. Yes. Exhibit No. MRR-1, entitled "Tampa Electric Company, Schedules Supporting Conservation Cost Recovery Factor, Actual, January 2020–December 2020" was prepared under my direction and supervision. This Exhibit includes Schedules CT-1 through CT-6 which support the company's actual and prudent DSM program related true-up

costs incurred during the January through December 2020 period.

Q. What were Tampa Electric's actual January through December 2020 conservation costs?

A. For the period, January through December 2020, Tampa Electric incurred actual net conservation costs of $37,850,526.

Q. What is the final end of period true-up amount for the conservation clause for January through December 2020?

A. The final conservation clause end of period true-up for January through December 2020 is an over-recovery, including interest, of $20,908,081. This calculation is detailed on Schedule CT-1, page 1 of 1.

Q. Please summarize how Tampa Electric's actual program costs for January through December 2020 period compare to the actual/estimated costs presented in Docket No. 20200002-EG?

A. For the period, January through December 2020, Tampa Electric had a variance of $2,860,543 or 7.03 percent

less than the estimated amount. The estimated total program costs were projected to be $40,711,069 which was the amount approved in Order No. PSC 2020-0447-FOF-EG, issued November 19, 2020 as compared to the incurred actual net conservation costs of $37,850,526.

Q. Please summarize the reasons why the actual expenses were less than projected expenses by $2,860,543?

A. The variance was a result of the following actual expenses being less than estimated in the following residential programs: Computer Assisted Audits; Ceiling Insulation; Duct Repair; Energy Education, Awareness and Agency Outreach; ENERGY STAR for Multi-Family; ENERGY STAR for New Homes; ENERGY STAR Thermostats; Neighborhood Weatherization; and Energy Planner. Additionally, actual expenses were less than estimated in the following commercial/industrial programs: Energy Audits; Comprehensive Energy Audits; Ceiling Insulation; Chiller; Cool Roof; Commercial Cooling; Demand Response; Duct Repair; Facility Energy Management Systems; Industrial Load Management; LED Street and Outdoor Lighting Conversion Program; Lighting Conditioned Space; Commercial Smart Thermostats; Standby Generator; Thermal Energy Storage; Variable Frequency Drive Control for

Compressors; Integrated Renewable Energy System (Pilot); and the Renewable Energy Program. Each DSM program's detailed variance and common variance contribution is shown on Schedule CT-2, Page 3 of 4.

Q. Was there a reason why the participation in many of the company's programs were less than projected which caused the actual expenses to be less than projected expenses?

A. Yes, the main reason for the reduced participation in the company's programs in 2020 was the COVID pandemic. On March 16, 2020, Tampa Electric suspended non-essential operations with customers that require face-to-face interactions (on-site) which included those DSM programs that require ace-to-face interactions.

Q. Did Tampa Electric take actions to try to minimize the reduction in participation due to the COVID pandemic in the company's DSM programs?

A. Yes, the company took many steps and efforts to mitigate the impacts to the company's DSM programs and to provide customers special consideration during these challenging times. The company provided "Tampa Electric's 2020 Conservation related efforts toward the COVID Pandemic"

which gave a comprehensive description of these steps and efforts as an appendix to Tampa Electric's Annual DSM Report that was filed on March 1, 2021.

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

A. Yes.

Q. There is a new line item on the company's CT-2 PG1, line item 20 which has the description True-up and Interest Provision Adjustment, would you explain what this is for?

A. Yes, in the beginning of 2020, Tampa Electric transitioned from an accounting system that used internal order numbers to a system that utilizes plant maintenance orders ("PMO"). In July 2020, the company found an issue where $71,108 was incorrectly charged to conservation by the Renewable Energy Program due to the system not picking up the correct PMO.

Q. Did the company correct this issue?

A. Yes, the company has since corrected the issue with the PMO.

Q. Did the company make the required adjustment to correct for this error?

A. Yes, the company recognized this error caused expenses within the ECCR to be overstated and required an adjustment. To correct for this error, the company made an adjustment by adding $71,108 to the "beginning true-up amount" in July 2020 listed on CT-3 PG3 and also adding $32 to the "interest provision this period" in July 2020 listed on CT-3 PG2 to accurately reflect the interest for this error.

Q. Were there any other adjustments that needed to be made to correct for this error?

A. No, this adjustment corrected the error fully.

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

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

Q. Did Tampa Electric offer the programs contained in the 2015-2020 Ten-Year DSM Plan the entire 2020 period?

A. No, the company transitioned to the Commission approved new 2020-2029 Ten-Year DSM Plan on November 2, 2020.

Q. Should Tampa Electric's cost incurred during the January through December 2020 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 2020 - DECEMBER 2020

CONSERVATION COST RECOVERY

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SCHEDULE CT-1
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TAMPA ELECTRIC COMPANY
Energy Conservation
Adjusted Net True-up
For Months January 2020 through December 2020

End of Period True-up			
	Principal	$20,814,416	
	Interest	$93,665	
	Total		$20,908,081
Less: Projected True-up			
(Last Projected Conservation Hearing)			
	Principal	$17,177,012	
	Interest	$115,088	
	Total		$17,292,100
Adjusted Net True-up			$3,615,981

SCHEDULE CT-2
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TAMPA ELECTRIC COMPANY
Analysis of Energy Conservation Program Costs
Actual vs. Projected
For Months January 2020 through December 2020

	Description	Actual	Projected	Difference
1	Capital Investment	$898,021	$1,070,702	($172,681)
2	Payroll	$3,672,573	$4,194,231	($521,658)
3	Materials and Supplies	$224,636	$205,377	$19,259
4	Outside Services	$1,346,197.00	$1,559,550.00	($213,353.00)
5	Advertising	$1,003,274.00	$682,575.00	$320,699.00
6	Incentives	$27,015,599.00	$28,114,310.00	($1,098,711.00)
7	Vehicles	$106,732.00	$152,798.00	($46,066.00)
8	Other	$3,877,492.00	$5,240,480.44	($1,362,988.44)
9	Subtotal	$38,144,524.00	$41,220,023.50	($3,075,499.50)
10	Less: LED Street and Outdoor Conversion Program	($132,668.00)	($110,000.00)	($22,668.00)
11	Less: Renewable Revenues	($132,895.00)	($129,500.00)	($3,395.00)
12	Total	$37,878,961.00	$40,980,523.50	($3,101,562.50)
13	Less: Renewable Program	($28,435.00)	($269,454.60)	$241,019.60
14	Total Program Costs	$37,850,526.00	$40,711,068.90	($2,860,542.90)
15	Beginning of Period True-up Overrecovery	($15,911,022.00)	($15,911,022.00)	$0.00
16	Amounts included in Base Rates	$0.00	$0.00	$0.00
17	Conservation Adjustment Revenues	($42,124,571.00)	($41,417,992.00)	($706,579.00)
18	Regulatory Adjustments	($629,349.06)	($630,176.21)	$827.15
19	True-up and Interest Provision Adjustment		$71,108.00	($71,108.00)
20	True-up Before Interest	$20,814,416.06	$17,177,012.31	$3,637,403.75
21	Interest Provision	$93,665.00	$115,088.00	($21,423.00)
22	End of Period True-up	$20,908,081.00	$17,292,100.00	$3,615,981.00

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TAMPA ELECTRIC COMPANY
Actual Conservation Program Costs per Program
For Months January 2020 through December 2020

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
D0083437 Residential Walk-Through Energy Audit	0	1,152,269	5,513	47,200	777,806	0	57,822	17,029	0	2,057,639
D0083432 Residential Customer Assisted Audit	0	4,999	0	407,900	0	0	0	0	0	412,899
D0083434, D0083317 Residential Computer Assisted Audit	0	0	0	0	0	0	0	50	0	50
D0083526 Residential Ceiling Insulation	0	57,455	0	0	0	67,765	72	674	0	125,966
D0083530 Residential Duct Repair	0	29,057	0	0	0	41,415	122	14	0	70,608
D0083322 Residential Electronically Commutated Motors	0	0	0	0	0	115	0	0	0	115
D0083488 Energy Education, Awareness and Agency Outreach	10,917	86,586	33,115	67,364	13,714	0	11,573	7,500	0	230,769
D0083546 Energy Star Multi Family	0	42	0	0	0	0	0	64	0	106
D0083541 Energy Star for New Homes	0	29,451	0	0	0	742,650	136	1,016	0	773,253
D0091086 Energy Star Pool Pumps	0	0	0	0	0	3,500	0	0	0	3,500
D0091087 Energy Star Thermostats	0	0	0	0	0	2,100	0	0	0	2,100
D0083332 Residential Heating and Cooling	0	88,700	297	0	0	482,760	218	7,504	0	579,479
D0083538 Neighborhood Weatherization	0	253,395	155,178	280	2,062	282,770	0	4,450	0	698,135
D0083542,11001480 Energy Planner	877,806	966,706	28,408	408,083	109,142	0	35,506	51,678	0	2,477,329
D0091106 Residential Prime Time Plus	0	0	0	1,258	0	0	0	0	0	1,258
D0083466 Residential Wall Insulation	0	930	0	0	0	419	0	0	0	1,349
D0083486 Residential Window Replacement	0	80,382	0	0	0	662,981	178	696	0	744,237
D0083335 Prime Time	0	8,300	0	23,269	0	0	0	375	0	31,944
D0083447 Commercial/Industrial Audit (Free)	0	233,771	1,058	0	550	0	816	7,029	0	243,224
D0083446 Comprehensive Commercial/Industrial Audit (Paid)	0	0	0	0	0	0	0	0	0	0
D0083532 Commercial Ceiling Insulation	0	407	0	0	0	626	3	0	0	1,036
D0083534 Commercial Chiller	0	2,112	0	0	0	7,446	3	110	0	9,671
D0083487 Cogeneration	0	27,870	0	0	0	0	0	0	0	27,870
D0083318 Conservation Value	0	0	0	0	0	0	0	0	0	0
D0083543 Cool Roof	0	26,716	0	0	0	157,649	40	5	0	184,410
D0083540 Commercial Cooling	0	2,905	0	0	0	842	22	110	0	3,879
D0083533 Demand Response	0	19,782	0	0	0	3,113,712	0	1,463	0	3,134,957
D0083489 Commercial Duct Repair	0	37	0	0	0	0	0	0	0	37
D0083323 Commercial ECM	0	0	0	0	0	0	0	0	0	0
D0091107 Facility Energy Management System	0	0	0	0	0	0	0	0	0	0
D0083506 Industrial Load Management (GSLM 2&3)	0	23,838	0	0	0	17,023,649	0	114	0	17,047,601
D0083547 LED Street and Outdoor Conversion Program	0	0	0	0	0	0	0	3,637,058	(132,668)	3,504,390
D0083528 Lighting Conditioned Space	0	57,486	52	0	0	508,347	88	644	0	566,617
D0083544 Lighting Non-Conditioned Space	0	51,634	52	0	0	93,352	130	357	0	145,525
D0083535 Lighting Occupancy Sensors	0	6,568	0	0	0	3,040	0	0	0	9,608
D0083527 CILM (GSLM 1)	0	0	0	0	0	6,615	0	0	0	6,615
D0083536 Refrigeration Anti-Condensate Control	0	0	0	0	0	0	0	0	0	0
D0091108 Commercial Smart Thermostats	0	0	0	0	0	0	0	0	0	0
D0083529 Standby Generator	0	42,250	0	182,079	0	3,498,446	0	24,180	0	3,746,955
D0083545 Thermal Energy Storage	0	1,153	0	(157,700)	0	315,400	3	0	0	158,856
D0091109 Variable Frequency Drive Control for Compressors	0	0	0	0	0	0	0	0	0	0
D0083320 Commercial Wall Insulation	0	0	0	0	0	0	0	0	0	0
D0083537 Commercial Water Heating	0	0	0	0	0	0	0	0	0	0
D0083539 Conservation Research and Development	0	13,572	342	73,265	0	0	0	673	0	87,852
D0083531 Renewable Energy Program	0	14,829	287	146,214	0	0	0	0	(132,895)	28,435
D0083328 Common Expenses	0	389,371	334	133,231	100,000	0	0	114,699	0	737,635
D0090066 Integrated Renewable Energy System (Pilot)	9,298	0	0	13,754	0	0	0	0	0	23,052
Total All Programs	898,021	3,672,573	224,636	1,346,197	1,003,274	27,015,599	106,732	3,877,492	(265,563)	37,878,961
Less Renewable Energy Program	0	14,829	287	146,214	0	0	0	0	(132,895)	28,435
Total Less Renewable Energy Program	898,021	3,657,744	224,349	1,199,983	1,003,274	27,015,599	106,732	3,877,492	(132,668)	37,850,526

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TAMPA ELECTRIC COMPANY
Conservation Program Costs per Program
Variance - Actual vs. Projected
For Months January 2020 through December 2020

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
D0083437 Residential Walk-Through Energy Audit	0	(141,139)	1,701	47,200	414,518	0	(34,340)	(8,381)	0	279,559
D0083432 Residential Customer Assisted Audit	0	(608)	0	9,900	0	0	0	0	0	9,292
D0083434, D0083317 Residential Computer Assisted Audit	0	(823)	0	0	0	0	0	(250)	0	(1,073)
D0083526 Residential Ceiling Insulation	0	974	0	0	0	(36,967)	(120)	(200)	0	(36,313)
D0083530 Residential Duct Repair	0	(2,899)	0	0	0	(12,705)	(240)	(340)	0	(16,184)
D0083322 Residential Electronically Commutated Motors	0	0	0	0	0	115	0	0	0	115
D0083488 Energy Education, Awareness and Agency Outreach	0	(32,263)	(1,661)	27,274	2,379	(10,800)	10,773	3,900	0	(398)
D0083546 Energy Star Multi Family	0	42	0	0	0	0	0	(800)	0	(758)
D0083541 Energy Star for New Homes	0	645	0	0	0	(103,950)	(217)	(2,360)	0	(105,882)
D0091086 Energy Star Pool Pumps	0	(1,225)	0	0	0	2,450	0	(200)	0	1,025
D0091087 Energy Star Thermostats	0	(1,922)	0	0	0	1,850	0	(200)	0	(272)
D0083332 Residential Heating and Cooling	0	7,091	0	0	0	23,895	(40)	3,866	0	34,812
D0083538 Neighborhood Weatherization	0	(140,276)	110,733	(1,200)	2,062	(510,843)	(17,940)	(1,722)	0	(559,186)
D0083542,11001480 Energy Planner	(50,765)	(77,703)	(5,862)	(83,592)	(182,146)	0	(139)	(23,968)	0	(424,175)
D0091106 Residential Prime Time Plus	0	0	0	68	0	0	0	0	0	68
D0083466 Residential Wall Insulation	0	856	0	0	0	35	0	0	0	891
D0083486 Residential Window Replacement	0	5,086	0	0	0	(1,992)	(174)	(314)	0	2,606
D0083335 Prime Time	0	530	0	11,523	0	0	0	(270)	0	11,783
D0083447 Commercial/Industrial Audit (Free)	0	(36,973)	(324)	0	(16,114)	0	(747)	1,502	0	(52,656)
D0083446 Comprehensive Commercial/Industrial Audit (Paid)	0	(498)	0	(500)	0	0	(80)	0	0	(1,078)
D0083532 Commercial Ceiling Insulation	0	178	0	0	0	(268)	(50)	0	0	(140)
D0083534 Commercial Chiller	0	157	0	0	0	(3,500)	(25)	0	0	(3,368)
D0083487 Cogeneration	0	10,060	0	0	0	0	(300)	0	0	9,760
D0083318 Conservation Value	0	0	0	0	0	0	(3)	0	0	(3)
D0083543 Cool Roof	0	(14,064)	0	0	0	4,996	(300)	(85)	0	(9,453)
D0083540 Commercial Cooling	0	(938)	0	0	0	(608)	(75)	0	0	(1,621)
D0083533 Demand Response	0	(4,120)	0	0	0	0	(400)	950	0	(3,570)
D0083489 Commercial Duct Repair	0	(100)	0	0	0	(150)	0	0	0	(250)
D0083323 Commercial ECM	0	0	0	0	0	0	0	0	0	0
D0091107 Facility Energy Management System	0	(2,306)	0	0	0	(37,500)	0	0	0	(39,806)
D0083506 Industrial Load Management (GSLM 2&3)	0	(8,533)	0	0	0	(151,798)	(700)	114	0	(160,917)
D0083547 LED Street and Outdoor Conversion Program	0	0	0	0	0	0	0	(1,337,857)	(22,668)	(1,360,525)
D0083528 Lighting Conditioned Space	0	(25,727)	0	0	0	(303,554)	(159)	(22)	0	(329,462)
D0083544 Lighting Non-Conditioned Space	0	(1,888)	0	0	0	3,118	(287)	(22)	0	921
D0083535 Lighting Occupancy Sensors	0	3,323	0	0	0	(2,100)	(50)	0	0	1,173
D0083527 CILM (GSLM 1)	0	0	0	0	0	0	0	0	0	0
D0083536 Refrigeration Anti-Condensate Control	0	0	0	0	0	0	0	0	0	0
D0091108 Commercial Smart Thermostats	0	(2,605)	0	0	0	(6,000)	(50)	0	0	(8,655)
D0083529 Standby Generator	0	(202)	0	23,556	0	(105,135)	(300)	710	0	(81,371)
D0083545 Thermal Energy Storage	0	(971)	0	(158,292)	0	157,700	(50)	0	0	(1,613)
D0091109 Variable Frequency Drive Control for Compressors	0	(2,091)	0	0	0	(5,000)	0	0	0	(7,091)
D0083320 Commercial Wall Insulation	0	0	0	0	0	0	0	0	0	0
D0083537 Commercial Water Heating	0	0	0	0	0	0	(3)	0	0	(3)
D0083539 Conservation Research and Development	0	7,364	0	50,711	0	0	0	0	0	58,075
D0083531 Renewable Energy Program	0	(6,718)	(84,963)	(145,894)	0	0	(50)	0	(3,395)	(241,020)
D0083328 Common Expenses	0	(48,987)	(365)	(7,861)	100,000	0	0	2,961	0	45,748
D0090066 Integrated Renewable Energy System (Pilot)	(121,916)	(2,389)	0	13,754	0	0	0	0	0	(110,551)
Total All Programs	(172,681)	(521,658)	19,259	(213,353)	320,699	(1,098,711)	(46,066)	(1,362,988)	(26,063)	(3,101,563)
Less Renewable Energy Program	0	(6,718)	(84,963)	(145,894)	0	0	(50)	0	(3,395)	(241,020)
Total Less Renewable Energy Program	(172,681)	(514,940)	104,222	(67,459)	320,699	(1,098,711)	(46,016)	(1,362,988)	(22,668)	(2,860,543)

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TAMPA ELECTRIC COMPANY
Description for Accounts
For Months January 2020 through December 2020

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
D0083322	Residential Electronically Commutated Motors
D0083488	Energy 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
D0083542,11001480	Energy Planner
D0091106	Residential Prime Time Plus
D0083466	Residential Wall Insulation
D0083486	Residential Window Replacement
D0083335	Prime Time
D0083447	Commercial/Industrial Audit (Free)
D0083446	Comprehensive Commercial/Industrial Audit (Paid)
D0083532	Commercial Ceiling Insulation
D0083534	Commercial Chiller
D0083487	Cogeneration
D0083318	Conservation Value
D0083543	Cool Roof
D0083540	Commercial Cooling
D0083533	Demand Response
D0083489	Commercial Duct Repair
D0083323	Commercial ECM
D0091107	Facility Energy Management System
D0083506	Industrial Load Management (GSLM 2&3)
D0083547	LED Street and Outdoor Conversion Program
D0083528	Lighting Conditioned Space
D0083544	Lighting Non-Conditioned Space
D0083535	Lighting Occupancy Sensors
D0083527	CILM (GSLM 1)
D0083536	Refrigeration Anti-Condensate Control
D0091108	Commercial Smart Thermostats
D0083529	Standby Generator
D0083545	Thermal Energy Storage
D0091109	Variable Frequency Drive Control for Compressors
D0083320	Commercial Wall Insulation
D0083537	Commercial Water Heating
D0083539	Conservation Research and Development
D0083531	Renewable Energy Program
D0083328	Common Expenses
D0090066	Integrated Renewable Energy System (Pilot)

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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Summary of Expenses by Program by Month
For Months January 2020 through December 2020

	Program Name	January	February	March	April	May	June	July	August	September	October	November	December	Total
D0083437	Residential Walk-Through Energy Audit	120,528	106,769	84,115	122,491	109,617	118,580	185,649	128,771	200,604	501,677	189,982	188,856	2,057,639
D0083432	Residential Customer Assisted Audit	670	355	569	0	170	260	410,169	0	85	113	338	170	412,899
D0083434, D0083317	Residential Computer Assisted Audit	0	0	0	0	0	0	0	0	0	0	0	50	50
D0083526	Residential Ceiling Insulation	21,146	12,325	10,599	9,168	5,361	6,500	15,406	10,319	7,849	8,210	6,592	12,491	125,966
D0083530	Residential Duct Repair	8,850	2,789	11,443	10,056	2,405	4,194	3,390	2,296	2,212	2,043	15,056	5,874	70,608
D0083322	Residential Electronically Commutated Motors	0	0	0	0	0	0	0	0	0	115	0	0	115
D0083488	Energy Education, Awareness and Agency Outre	3,719	28,778	17,558	3,708	27,283	18,525	14,886	34,788	11,753	11,459	11,192	47,120	230,769
D0083546	Energy Star Multi Family	0	0	64	0	0	0	42	0	0	0	0	0	106
D0083541	Energy Star for New Homes	53,177	87,233	141,044	65,749	50,555	80,463	63,741	43,469	53,842	40,109	35,761	58,110	773,253
D0091086	Energy Star Pool Pumps	0	0	0	0	0	0	0	0	0	0	1,400	2,100	3,500
D0091087	Energy Star Thermostats	0	0	0	0	0	0	0	0	0	0	650	1,450	2,100
D0083332	Residential Heating and Cooling	46,702	31,424	50,844	46,110	45,287	54,763	70,415	50,780	39,848	60,940	45,600	36,766	579,479
D0083538	Neighborhood Weatherization	124,188	96,843	130,177	62,490	23,697	16,724	23,292	35,288	54,513	44,540	62,714	23,669	698,135
D0083542,11001480	Energy Planner	189,820	204,368	189,533	267,166	185,834	182,432	258,220	154,448	342,772	161,564	167,746	173,426	2,477,329
D0091106	Residential Prime Time Plus	0	0	0	480	710	0	0	0	0	68	0	0	1,258
D0083466	Residential Wall Insulation	0	0	37	0	0	274	21	121	24	0	0	872	1,349
D0083486	Residential Window Replacement	81,550	66,574	69,399	61,469	55,402	56,668	67,002	61,133	59,123	82,221	47,629	36,067	744,237
D0083335	Prime Time	725	123	2,904	461	570	1,151	4,708	10,064	789	4,076	299	6,074	31,944
D0083447	Commercial/Industrial Audit (Free)	27,048	27,847	18,451	13,362	17,335	18,539	24,636	16,976	17,273	18,985	20,382	22,390	243,224
D0083446	Comprehensive Commercial/Industrial Audit (Pai	1,935	0	(1,935)	0	0	0	0	0	0	0	0	0	0
D0083532	Commercial Ceiling Insulation	0	3	0	0	0	144	63	240	105	202	279	0	1,036
D0083534	Commercial Chiller	0	113	0	0	7,446	0	400	340	370	462	400	140	9,671
D0083487	Cogeneration	2,901	2,183	2,331	2,136	2,305	1,973	3,186	2,305	1,702	2,122	2,231	2,495	27,870
D0083318	Conservation Value	0	0	0	0	0	0	0	0	0	0	0	0	0
D0083543	Cool Roof	2,776	4,325	37,715	1,994	15,760	24,567	38,203	12,132	2,374	2,292	33,348	8,924	184,410
D0083540	Commercial Cooling	506	310	573	0	100	0	433	502	443	436	436	140	3,879
D0083533	Demand Response	330,704	253,049	254,591	253,941	254,588	255,469	256,364	255,213	255,156	255,292	255,905	254,685	3,134,957
D0083489	Commercial Duct Repair	0	90	(90)	0	0	37	0	0	0	0	0	0	37
D0083323	Commercial ECM	0	0	0	0	0	0	0	0	0	0	0	0	0
D0091107	Facility Energy Management System	0	0	0	0	0	0	0	0	0	0	0	0	0
D0083506	Industrial Load Management (GSLM 2&3)	1,628,097	1,564,250	1,447,593	1,264,871	1,220,309	1,509,412	1,444,632	1,520,750	1,384,535	1,461,182	1,219,900	1,382,070	17,047,601
D0083547	LED Street and Outdoor Conversion Program	415,614	448,795	451,534	41,530	11,626	269,662	573,190	242,172	241,731	409,257	185,384	213,895	3,504,390
D0083528	Lighting Conditioned Space	53,706	12,826	29,034	240,696	7,024	17,051	32,079	18,075	24,899	55,520	18,574	57,133	566,617
D0083544	Lighting Non-Conditioned Space	10,297	23,857	9,525	17,409	7,181	8,483	14,420	6,482	6,469	11,568	9,022	20,812	145,525
D0083535	Lighting Occupancy Sensors	348	193	867	980	381	1,220	1,297	789	758	909	836	1,030	9,608
D0083527	CILM (GSLM 1)	0	0	0	945	945	945	945	945	945	945	0	0	6,615
D0083536	Refrigeration Anti-Condensate Control	0	0	0	0	0	0	0	0	0	0	0	0	0
D0091108	Commercial Smart Thermostats	0	0	0	0	0	0	0	0	0	0	0	0	0
D0083529	Standby Generator	340,954	303,231	303,179	309,780	297,267	312,785	349,142	280,981	311,526	314,133	315,024	308,953	3,746,955
D0083545	Thermal Energy Storage	432	3	0	0	0	0	251	158,170	0	0	0	0	158,856
D0091109	Variable Frequency Drive Control for Compresso	0	0	0	0	0	0	0	0	0	0	0	0	0
D0083320	Commercial Wall Insulation	0	0	0	0	0	0	0	0	0	0	0	0	0
D0083537	Commercial Water Heating	0	0	0	0	0	0	0	0	0	0	0	0	0
D0083539	Conservation Research and Development	1,133	8,363	1,977	0	124	2,309	3,463	5,483	65,000	0	0	0	87,852
D0083531	Renewable Energy Program	(4,668)	(10,141)	(8,146)	(8,632)	(9,898)	53,750	(10,061)	(10,966)	(9,678)	55,046	(10,003)	1,832	28,435
D0083328	Common Expenses	61,807	76,076	42,439	71,630	41,876	35,835	64,897	34,666	84,640	141,411	41,479	40,879	737,635
D0090066	Integrated Renewable Energy System (Pilot)	0	0	0	0	13,754	0	0	0	17	47	2,763	6,471	23,052
	Total All Programs	3,524,665	3,352,954	3,297,924	2,859,990	2,395,014	3,052,715	3,914,481	3,076,732	3,161,679	3,646,944	2,680,919	2,914,944	37,878,961
	Less Renewable Energy Program	(4,668)	(10,141)	(8,146)	(8,632)	(9,898)	53,750	(10,061)	(10,966)	(9,678)	55,046	(10,003)	1,832	28,435
	Total Less Renewable Energy Program	3,529,333	3,363,095	3,306,070	2,868,622	2,404,912	2,998,965	3,924,542	3,087,698	3,171,357	3,591,898	2,690,922	2,913,112	37,850,526

TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up and Interest Provision
For Months January 2020 through December 2020

Description	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Residential Conservation Audit Fees (A)	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Conservation Adjustment Revenues *	3,041,740	2,948,006	2,908,955	3,238,962	3,254,826	3,752,312	4,249,411	4,279,144	4,060,201	3,792,908	3,508,950	3,089,156	42,124,571
3 Total Revenues	3,041,740	2,948,006	2,908,955	3,238,962	3,254,826	3,752,312	4,249,411	4,279,144	4,060,201	3,792,908	3,508,950	3,089,156	42,124,571
4 Prior Period True-up	643,499	643,499	643,499	643,499	643,499	643,499	643,499	643,499	643,499	643,499	643,499	643,502	7,721,991
5 Conservation Revenue Applicable to Period	3,685,239	3,591,505	3,552,454	3,882,461	3,898,325	4,395,811	4,892,910	4,922,643	4,703,700	4,436,407	4,152,449	3,732,658	49,846,562
6 Conservation Expenses	3,534,892	3,363,095	3,307,503	2,868,623	2,404,910	3,063,081	3,853,438	3,087,697	3,171,357	3,591,898	2,690,920	2,913,112	37,850,526
8 Regulatory Adjustments	0	0	632,148	0	(1,541)	(431)	0	0	0	0	0	(827)	629,349
7 True-up This Period (Line 5 - Line 6)	150,347	228,411	244,951	1,013,838	1,493,415	1,332,729	1,039,472	1,834,946	1,532,343	844,509	1,461,529	819,546	11,996,036
9 Interest Provision This Period	21,930	20,259	23,804	14,713	967	1,350	1,778	1,822	1,541	1,387	2,032	2,082	93,665
10 True-up & Interest Provision Beginning of Period	15,911,022	15,439,800	15,044,971	15,302,375	15,687,427	16,536,769	17,226,918	17,624,669	18,817,938	19,708,323	19,910,720	20,730,782	15,911,022
11 Prior Period True-up Collected (Refunded)	(643,499)	(643,499)	(643,499)	(643,499)	(643,499)	(643,499)	(643,499)	(643,499)	(643,499)	(643,499)	(643,499)	(643,502)	(7,721,991)
12 End of Period Total Net True-up	15,439,800	15,044,971	15,302,375	15,687,427	16,536,769	17,226,918	17,624,669	18,817,938	19,708,323	19,910,720	20,730,782	20,908,081	20,908,081

* 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 2020 through December 2020

Interest Provision	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Beginning True-up Amount	$15,911,022	$15,439,800	$15,044,971	$15,302,375	$15,687,427	$16,536,769	$17,298,058	$17,624,669	$18,817,938	$19,708,323	$19,910,720	$20,730,782	
2 Ending True-up Amount Before Interest	15,417,870	15,024,712	15,278,571	15,672,714	16,535,802	17,225,568	17,622,891	18,816,116	19,706,782	19,909,333	20,728,750	20,905,999	
3 Total Beginning & Ending True-up	$31,328,892	$30,464,512	$30,323,542	$30,975,089	$32,223,229	$33,762,337	$34,920,949	$36,440,785	$38,524,720	$39,617,656	$40,639,470	$41,636,781	
4 Average True-up Amount (50% of Line 3)	$15,664,446	$15,232,256	$15,161,771	$15,487,545	$16,111,615	$16,881,169	$17,460,475	$18,220,393	$19,262,360	$19,808,828	$20,319,735	$20,818,391	
5 Interest Rate - First Day of Month	1.71000	1.64000	1.56000	2.21000	0.06000	0.08000	0.11000	0.12000	0.13000	0.07000	0.10000	0.14000	
6 Interest Rate - First Day of Next Month	1.64000	1.56000	2.21000	0.06000	0.08000	0.11000	0.12000	0.13000	0.07000	0.10000	0.14000	0.10000	
7 Total (Line 5 + Line 6)	3.35000	3.20000	3.77000	2.27000	0.14000	0.19000	0.23000	0.25000	0.20000	0.17000	0.24000	0.24000	
8 Average Interest Rate (50% of Line 7)	1.67500	1.60000	1.88500	1.13500	0.07000	0.09500	0.11500	0.12500	0.10000	0.08500	0.12000	0.12000	
9 Monthly Average Interest Rate (Line 8/12)	0.00140	0.00133	0.00157	0.00095	0.00006	0.00008	0.00010	0.00010	0.00008	0.00007	0.00010	0.00010	
10 Interest Provision (Line 4 x Line 9)	$21,930	$20,259	$23,804	$14,713	$967	$1,350	$1,746	$1,822	$1,541	$1,387	$2,032	$2,082	$93,633

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2020 through December 2020

PRICE RESPONSIVE LOAD MANAGEMENT

	Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Investment		15,313	66,012	84,391	0	0	0	0	20,477	3,456	1,831	1,908	0	193,387
2	Retirements		158,229	119,344	162,381	155,227	157,052	117,872	150,242	55,480	103,829	54,610	136,485	36,378	1,407,130
3	Depreciation Base		4,242,119	4,188,787	4,110,797	3,955,570	3,798,519	3,680,647	3,530,405	3,495,402	3,395,029	3,342,250	3,207,673	3,171,295	
4	Depreciation Expense		71,893	70,258	69,163	67,220	64,617	62,326	60,092	58,548	57,420	56,144	54,583	53,158	745,422
5	Cumulative Investment	4,385,035	4,242,119	4,188,787	4,110,797	3,955,570	3,798,519	3,680,647	3,530,405	3,495,402	3,395,029	3,342,250	3,207,673	3,171,295	3,171,295
6	Less: Accumulated Depreciation	2,430,827	2,344,490	2,295,404	2,202,186	2,114,179	2,021,745	1,966,199	1,876,049	1,879,117	1,832,708	1,834,242	1,752,340	1,769,120	1,769,120
7	Net Investment	1,954,208	1,897,629	1,893,383	1,908,611	1,841,391	1,776,774	1,714,448	1,654,356	1,616,285	1,562,321	1,508,008	1,455,333	1,402,175	1,402,175
8	Average Investment		1,925,919	1,895,506	1,900,997	1,875,001	1,809,083	1,745,611	1,684,402	1,635,321	1,589,303	1,535,165	1,481,671	1,428,754	
9	Return on Average Investment - Equity Component		9,571	9,420	9,447	9,318	8,990	8,675	8,435	8,190	7,959	7,688	7,420	7,155	102,268
10	Return on Average Investment - Debt Component		2,788	2,744	2,752	2,714	2,618	2,527	2,516	2,443	2,374	2,293	2,213	2,134	30,116
11	Total Depreciation and Return		84,252	82,422	81,362	79,252	76,225	73,528	71,043	69,181	67,753	66,125	64,216	62,447	877,806

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 5.9635% x 1/12 (Jan-Jun). Line 9 x 6.0096% x 1/12 (Jul-Dec). Based on ROE of 10.25% and weighted income tax rate of 24.522% (expansion factor of 1.32830).
Line 10 x 1.7369% x 1/12 (Jan-Jun).Line 10 x 1.7926% x 1/12 (Jul-Dec).

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2020 through December 2020

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	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 5.9635% x 1/12 (Jan-Jun). Line 9 x 6.0096% x 1/12 (Jul-Dec). Based on ROE of 10.25% and weighted income tax rate of 24.522% (expansion factor of 1.32830).
Line 10 x 1.7369% x 1/12 (Jan-Jun).Line 10 x 1.7926% x 1/12 (Jul-Dec).

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2020 through December 2020

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	11,339	12,068	12,797	13,526	14,255	14,984	15,713	16,442	17,171	17,900	18,629	19,358	20,087	20,087
7	Net Investment	32,393	31,664	30,935	30,206	29,477	28,748	28,019	27,290	26,561	25,832	25,103	24,374	23,645	23,645
8	Average Investment		32,028	31,300	30,571	29,842	29,113	28,384	27,655	26,926	26,197	25,468	24,739	24,010	
9	Return on Average Investment - Equity Component		159	156	152	148	145	141	138	135	131	128	124	120	1,677
10	Return on Average Investment - Debt Component		46	45	44	43	42	41	41	40	39	38	37	36	492
11	Total Depreciation and Return		934	930	925	920	916	911	908	904	899	895	890	885	10,917

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 5.9635% x 1/12 (Jan-Jun). Line 9 x 6.0096% x 1/12 (Jul-Dec). Based on ROE of 10.25% and weighted income tax rate of 24.522% (expansion factor of 1.32830).
Line 10 x 1.7369% x 1/12 (Jan-Jun).Line 10 x 1.7926% x 1/12 (Jul-Dec).

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2020 through December 2020

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	
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	
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
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 5.9635% x 1/12 (Jan-Jun). Line 9 x 6.0096% x 1/12 (Jul-Dec). Based on ROE of 10.25% and weighted income tax rate of 24.522% (expansion factor of 1.32830).
Line 10 x 1.7369% x 1/12 (Jan-Jun).Line 10 x 1.7926% x 1/12 (Jul-Dec).

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2020 through December 2020

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		0	0	0	0	0	0	0	0	5,131	3,991	831,681	308,980	1,149,783
2	In-Service		0	0	0	0	0	0	0	0	0	0	0	0	0
3	Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
4	Depreciation Base		0	0	0	0	0	0	0	0	0	0	0	0	
5	Depreciation Expense		0	0	0	0	0	0	0	0	0	0	0	0	0
6	Cumulative Investment In-Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	CWIP	0	0	0	0	0	0	0	0	0	5,131	9,122	840,803	1,149,783	1,149,783
9	Net Investment	$0	0	0	0	0	0	0	0	0	5,131	9,122	840,803	1,149,783	1,149,783
10	Average Investment		0	0	0	0	0	0	0	0	2,565	7,126	424,962	995,293	
11	Return on Average Investment - Equity Component		0	0	0	0	0	0	0	0	13	36	2,128	4,984	7,161
12	Return on Average Investment - Debt Component		0	0	0	0	0	0	0	0	4	11	635	1,487	2,137
13	Total Depreciation and Return		0	0	0	0	0	0	0	0	17	47	2,763	6,471	9,298

Depreciation expense is calculated using a useful life of 60 months.
Line 11 x 5.9635% x 1/12 (Jan-Jun). Line 11 x 6.0096% x 1/12 (Jul-Dec). Based on ROE of 10.25% and weighted income tax rate of 24.522% (expansion factor of 1.32830).
Line 12 x 1.7369% x 1/12 (Jan-Jun). Line 12 x 1.7926% x 1/12 (Jul-Dec).

SCHEDULE CT-5
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TAMPA ELECTRIC COMPANY
Reconciliation and Explanation of
Difference Between Filing and FPSC Audit
For Months January 2020 through December 2020

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, 2020 to December 31, 2020

Number of customers participating:

Residential Walk-Through:	1,514
Residential Customer Assisted:	59,766
Residential Computer Assisted:	0
Commercial/Industrial:	238
Commercial/Industrial Comprehensive:	0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $2,713,812.

Program Progress Summary: Through this reporting period 367,462 customers have participated in on-site audits. Additionally, 269,374 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, 2020 to December 31, 2020

Number of customers participating: 265

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $125,966.

Program Progress Summary: Through this reporting period 124,222 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, 2020 to December 31, 2020

Number of customers participating: 251

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $70,608.

Program Progress Summary: Through this reporting period 103,724 customers have participated.

Program Description and Progress

Program Title: Residential Electronically Commutated Motors (ECM)

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

Program Accomplishments: January 1, 2020 to December 31, 2020

Number of customers participating: 1

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $115.

Program Progress Summary: Through this reporting period six 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, 2020 to December 31, 2020

In this reporting period Tampa Electric partnered with one local school to present Energy Education to 126 students 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 8 presentations to civic organizations prior to COVID-19 and distributed 445 energy saving kits to participating customers. As well as presented electric vehicle education to 643 students at 3 local high schools.

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $230,769.

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 1,039 with 3 local high schools. In addition, the company gave 195 presentations to civic organizations that generated 1,423 customer assisted audits and distributed 8,332 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, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $106.

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, 2020 to December 31, 2020

Number of customers participating: 858

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $773,253.

Program Progress Summary: Through this reporting period 15,341 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, 2020 to December 31, 2020

Number of customers participating: 10

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $3,500.

Program Progress Summary: Through this reporting period 10 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, 2020 to December 31, 2020

Number of customers participating: 42

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $2,100.

Program Progress Summary: Through this reporting period 42 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, 2020 to December 31, 2020

Number of customers participating: 3,578

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $579,479.

Program Progress Summary: Through this reporting period 211,982 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, 2020 to December 31, 2020

Number of customers participating: 1,760

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $698,135.

Program Progress Summary: Through this reporting period 51,821 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, 2020 to December 31, 2020 Number of net customers participating: 138
Program Fiscal Expenditures:	January 1, 2020 to December 31, 2020 Actual expenses were $2,477,329.
Program Progress Summary:	Through this reporting period 5,921 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, 2020 to December 31, 2020

Number of net customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $1,258.

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

Program Description and Progress

Program Title: Residential Wall Insulation

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

Program Accomplishments: January 1, 2020 to December 31, 2020

Number of customers participating: 3

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $1,349.

Program Progress Summary: Through this reporting period 202 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, 2020 to December 31, 2020

Number of customers participating: 1,875

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $744,237.

Program Progress Summary: Through this reporting period 18,348 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, 2020 to December 31, 2020

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $31,944.

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

Program Description and Progress

Program Title: Commercial Ceiling Insulation

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

Program Accomplishments: January 1, 2020 to December 31, 2020

Number of customers participating: 3

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $1,036.

Program Progress Summary: Through this reporting period 327 customers have participated.

Program Description and Progress

Program Title: Commercial Chiller

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

Program Accomplishments: January 1, 2020 to December 31, 2020

Number of customers participating: 1

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $9,671.

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

Program Description and Progress

Program Title: Cogeneration

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

Program Accomplishments: January 1, 2020 to December 31, 2020

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

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

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $27,870.

Program Progress Summary: At the end of 2020, 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 2020, the company received 133 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, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $0.

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

Program Description and Progress

Program Title: Cool Roof

Program Description: The Cool Roof Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing a cool roof system above conditioned spaces to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. Cool roofs reduce the heat load transferred into a building or facility by reflecting some of the suns 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, 2020 to December 31, 2020

Number of customers participating: 22

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $184,410.

Program Progress Summary: Through this reporting period 290 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, 2020 to December 31, 2020

Number of customers participating: 14

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $3,879.

Program Progress Summary: Through this reporting period 2,352 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, 2020 to December 31, 2020

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $3,134,957.

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

Program Description and Progress

Program Title: Commercial Duct Repair

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

Program Accomplishments: January 1, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $37.

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

Program Description and Progress

Program Title: Commercial Electronically Commutated Motors (ECM)

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

Program Accomplishments: January 1, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $0.

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

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, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $0.

Program Progress Summary: Through this reporting period zero 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, 2020 to December 31, 2020

Net new customers participating: 1

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $17,047,601.

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

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

Program Description and Progress

Program Title: Commercial Street and Outdoor Lighting Conversion

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

Program Accomplishments: January 1, 2020 to December 31, 2020

Number of luminaires retired: 25,469

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Net expenditures were $3,504,390.

Program Progress Summary: Through this reporting period 89,771 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, 2020 to December 31, 2020

Number of customers participating: 186

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $566,617.

Program Progress Summary: Through this reporting period 2,972 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, 2020 to December 31, 2020

Number of customers participating: 93

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $145,525.

Program Progress Summary: Through this reporting period 1,022 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, 2020 to December 31, 2020

Number of customers participating: 4

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $9,608.

Program Progress Summary: Through this reporting period 230 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, 2020 to December 31, 2020

Net new customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $6,615.

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

Program Description and Progress

Program Title: Refrigeration Anti-Condensate Control

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

Program Accomplishments: January 1, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $0.

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

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, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $0.

Program Progress Summary: Through this reporting period zero 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, 2020 to December 31, 2020

Net new customers participating: 14

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $3,746,955.

Program Progress Summary: Through this reporting period there are 110 participating customers.

Program Description and Progress

Program Title: Thermal Energy Storage

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

Program Accomplishments: January 1, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $158,856.

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

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, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $0.

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

Program Description and Progress

Program Title: Commercial Wall Insulation

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

Program Accomplishments: January 1, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $0.

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

Program Description and Progress

Program Title: Commercial Water Heating

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

Program Accomplishments: January 1, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $0.

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, 2020 to December 31, 2020

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $23,052.

Program Progress Summary: Tampa Electric has initiated the construction of the integrated renewable energy system and is projecting the completion of the construction in the summer of 2021. The company will start the pilot program upon completion of construction.

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, 2020 to December 31, 2020

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $87,852.

Program Progress Summary: For 2020, the company continued to make progress with Research and Development ("R&D") efforts with the home energy management systems and the company received the electric vehicles and demand side management benefits study from the University of South Florida's ("USF") Center for Urban Transportation Research ("CUTR").

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, 2020 to December 31, 2020

Year-end customers participating:	1,232
Number of net customers participating:	-162
Blocks of energy purchased:	2,106
One-time blocks of energy sold:	0

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $161,330.
Actual program revenues were $132,895.

Program Progress Summary: Through this reporting period 50,592 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, 2020 to December 31, 2020

N/A

Program Fiscal Expenditures: January 1, 2020 to December 31, 2020

Actual expenses were $737,635.

Program Progress Summary: N/A