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April 14, 2022

VIA: ELECTRONIC MAIL

Ms. Judy Harlow, Director Division of Economics Florida Public Service Commission Room 225E – Gerald L. Gunter Building 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850

Re: Tampa Electric Company's Summary of 2021 DSM Program Accomplishments

Dear Ms. Harlow:

Enclosed for filing is Tampa Electric Company's Amended Summary of 2021 Demand Side Management Program Accomplishments, including an Appendix "A" (Tampa Electric's 2021 Conservation Related Efforts Toward the COVID Pandemic), Appendix "B" (Research and Development Home Energy Management System – Final Report, and Pilot Program Integrated Renewable Energy System – Update), Appendix "C" (DSM Energy Education and Awareness Activities of 2021), and Appendix "D" (Tampa Electric's 2021 Energy Audits Performed by Energy Audit Type).

Tampa Electric is amending the report to address an error the company discovered after the initial filing. More specifically, the company discovered that one of the cells in the formula to calculate net benefits for each program was directed at the cumulative projected number for the year ending 2020, not 2021. This issue only causes the net benefits number to be incorrect. Tampa Electric has corrected this issue in the enclosed amended filing.

Thank you for your assistance in connection with this matter.

Sincerely,

Lulm n. Means

Malcolm N. Means

Enclosure cc: Paula K. Brown (w/o enc.) Mark Roche (w/o enc.)

TAMPA ELECTRIC COMPANY - SUMMARY OF 2021 DEMAND SIDE MANAGEMENT PROGRAM ACCOMPLISHMENTS

Tampa Electric received approval of its 2020-2024 Demand Side Management ("DSM") goals in Order No. PSC-2019-0509-FOF-EG, issued on November 26, 2019, in Docket No. 20190021-EG. The company received approval of its 2020-2029 DSM Plan in Order No. PSC-2020-0274-PAA-EG, issued on August 3, 2020, in Docket No. 20200053-EG. Tampa Electric transitioned to the DSM programs within the 2020-2029 DSM Plan on November 2, 2020, pursuant to receiving final approval of the supporting DSM standards on September 8, 2020.

For 2021, Tampa Electric achieved the annual and cumulative Residential Summer Demand and annual energy, all the annual and cumulative commercial/industrial ("Comm/Ind"), and combined Summer Demand and annual energy DSM goals. The company did not achieve the annual Residential Winter Demand DSM goal and achieved 92.3 percent of the combined Winter Demand DSM goal. On a cumulative basis, even with the continued impacts of COVID in 2021, the company is exceeding the prescribed combined DSM goals by a minimum of 231.6 percent. The company achieved the following summer demand ("SkW"), winter demand ("WkW") and annual energy ("AE") reductions identified at the generator:

2021 Residential G	Goals	Actual Residential	DSM Achieved
SkW:	3.3 MW	SkW:	6.4 MW
WkW:	8.0 MW	WkW:	4.5 MW
AE:	7.7 GWh	AE:	16.4 GWh
2021 Comm/Ind G	oals	Actual Comm/Ind E	<u> OSM Achieved</u>
SkW:	3.6 MW	SkW:	5.6 MW
WkW:	1.9 MW	WkW:	4.7 MW
AE:	10.4 GWh	AE:	20.4 GWh
2021 Combined G	oals	Actual Combined E	<u> SM Achieved</u>
SkW:	6.9 MW	SkW:	12.1 MW
WkW:	9.9 MW	WkW:	9.1 MW
AE:	18.1 GWh	AE:	36.8 GWh

The reason the company was unable to achieve the annual Residential and combined Winter Demand reduction goals was due to the COVID pandemic which prevented Tampa Electric from performing non-essential face-to-face (on-site) and in-home interactions for the safety of the company's customers, employees and contractors. Even though the COVID pandemic impacted participation in several of the company's DSM programs in 2021, Tampa Electric continued the many conservation related steps and efforts initiated in 2020 to mitigate the adverse COVID impacts to the company's Residential and Commercial/Industrial DSM programs and to provide customers special consideration during these challenging times. These additional steps and efforts are outlined in Appendix "A" of this report. Tampa Electric resumed normal operations on Monday, November 8, 2021. As reported in the company's 2020 DSM Annual Report that was filed on March 1, 2021, Tampa Electric reported the backlog of customers that

were awaiting in the affected DSM Programs. Included in Appendix "A" is the updated backlog lists when the company resumed normal operations on November 8, 2021, and the backlog lists at the end of the year.

In 2021, Tampa Electric converted an additional 69,231 street and outdoor lighting luminaires to Light Emitting Diode ("LED") technology within the Street and Outdoor Lighting conversion program. While this program does not supplement the company's conservation efforts toward achieving the Commission's annual demand and energy goals above, these luminaire replacements contributed the following additional annual and cumulative demand and energy savings at the generator:

2021 Achieven	nents	Cumulative F	Cumulative Program Achievements				
SkW:	0.000 MW	SkW:	0.000 MW				
WkW:	9.852 MW	WkW:	22.628 MW				
AE:	41.951 GWh	AE:	96.348 GWh				

In 2021, the company continued to make progress with Research and Development ("R&D") efforts with completing the Home Energy Management System R&D project and the company completed the installation of the Integrated Renewable Energy System Pilot program. The final report for the home energy management system R&D project and an update report on the lessons learned through the installation of the Integrated Renewable Energy System is included as Appendix "B" of this report.

In 2021, the electric vehicle ("EV") education portion of the Energy and Renewable Education, Awareness and Agency Outreach Program had 743 student drivers participate in the program that received the training and curriculum. As compared to 2020, the higher participation was due to students also participating during summer drivers' education sessions. Each student was afforded an opportunity in their class to drive the EV at least three times. A summary of 2021 energy education and awareness activities is included as Appendix "C" of this report.

Tampa Electric is also providing the additional detail of "audit information by type" for the Energy Audits performed by Tampa Electric in 2021, similar to last year's report. This information is included as Appendix "D" of this report

For 2022, Tampa Electric remains committed to offering DSM programs that advance the policy objectives of FEECA, are directly monitorable, yield measurable results and are cost-effective to deliver. The company will continue its advertising campaign of bill inserts, print media and television advertisements aimed at educating customers on opportunities to participate in programs to assist in meeting their energy efficiency requirements.

The attached pages present individual program participation levels and summaries that demonstrate the company achievements toward its annual residential, commercial, and combined DSM goals as described in Rule 25-17.0021(5), Florida Administrative Code.

	Demand Side Management Annual Report								
Utility:Tampa Electric CompanyProgram Name:RESIDENTIAL ALTERNATE AUDIT (aka Walk-Thru Audit or EA Free)Program Start Date:May 1981Reporting Period:Annual 2021									
а	b	С	d	е	f	g	h	i	j
Year 2015 2016 2017 2018 2019 2020 2021	Total Number of <u>Customers</u> 628,392 640,090 651,770 662,917 677,922 691,719 704,770	Total Number of Eligible Customers 628,392 640,090 651,770 662,917 677,922 691,719 704,770	Total Number of Projected Participants 8,400 7,800 6,000 6,500 5,000 3,700	Projected Cumulative Number of Program Participants 8,400 16,800 24,600 30,600 37,100 42,100 45,800	Projected Cumulative Penetration Level % [(e/c)x100] 1.3% 2.6% 3.8% 4.6% 5.5% 6.1% 6.5%	Actual Annual Number of Program Participants 8,304 6,902 5,501 7,667 6,786 1,514 1,035	Actual Cumulative Number of Program Participants 8,304 15,206 20,707 28,374 35,160 36,674 37,709	Actual Cumulative Penetration Level % [(h/c)x100] 1.3% 2.4% 3.2% 4.3% 5.2% 5.3% 5.4%	Actual Participation Over (Under) Projected Participants (h-e) (1,594) (3,893) (2,226) (1,940) (5,426) (8,091)
2022 2022 2023 2024	104,110	704,770	3,700	43,800	0.576	1,055	57,705	5.470	(0,091)

Annual Demand and Energy Savings - 20	20-2029 DSM	Plan	Participants	1,035	
	Per l	nstallation	Progra	m Total	
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	0.10	0.10	99.36	106.61	
Winter kW Reduction	0.13	0.14	131.45	141.04	
Annual kWh Reduction	625	660	646,875	683,100	
Annual Demand and Energy Savings, Not	te 1		Participants	1,035	
			Program Total		
			@ Meter	@ Generator	
Summer kW Reduction			99.36	106.61	
Winter kW Reduction			131.45	141.04	
Annual kWh Reduction			646,875	683,100	
Utility Cost per Installation (\$):			2,165		
Total Program Cost of the Utility (\$000):			2,240.3		
Net Benefits of Measures Installed During R	Reporting Perio	d (\$000):	(1,600.6)		
Note 1: Demand and energy savings not inc	cluded in achiev	vements			

	Demand Side Management Annual Report								
Utility: Program N Program Si Reporting F	tart Date:	Tampa Electri RESIDENTIAI June 1996 Annual 2021		ASSISTED AUD	ITS				
а	b	С	d	е	f	g	h	i	j
		Total	Total	Projected Cumulative	Projected Cumulative	Actual Annual	Actual Cumulative	Actual Cumulative	Actual Participation Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	628,392	1,390	1,390	0.2%	658	658	0.1%	(732)
2016	640,090	640,090	1,200	2,590	0.4%	1,017	1,675	0.3%	(915)
2017	651,770	651,770	500	3,090	0.5%	409	2,084	0.3%	(1,006)
2018	662,917	662,917	800	3,890	0.6%	27,734	29,818	4.5%	25,928
2019	677,922	677,922	35,000	38,890	5.7%	57,370	87,188	12.9%	48,298
2020	691,719	691,719	42,000	80,890	11.7%	59,766	146,954	21.2%	66,064
2021	704,770	704,770	60,000	140,890	20.0%	68,540	215,494	30.6%	74,604
2022									
2023									

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tal Generator		
Generator		
Jenerator		
5,295.13		
6,986.62		
3,945,395		
68,540		
Program Total		
Generator		
5,295.13		
6,986.62		
3,945,395		

			D	emand Side Man	agement Annual	Report			
Utility: Program Na Program St Reporting F	art Date:	Tampa Electri RESIDENTIAI January 1981 Annual 2021		Computer Assiste	ed - Paid)				
а	b	С	d	е	f	g	h	i	j
				Projected	Projected	Actual	Actual	Actual	Actual Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	628,392	0	0	0.0%	5	5	0.0%	5
2016	640,090	640,090	4	4	0.0%	9	14	0.0%	10
2017	651,770	651,770	10	14	0.0%	4	18	0.0%	4
2018	662,917	662,917	10	24	0.0%	2	20	0.0%	(4)
2019	677,922	677,922	1	25	0.0%	1	21	0.0%	(4)
2020	691,719	691,719	1	26	0.0%	0	21	0.0%	(5)
2021	704,770	704,770	1	27	0.0%	0	21	0.0%	(6)
2022									
2023									

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Annual Demand and Energy Savings - 20	20-2029 DSM	Plan	Participants	0	
		stallation	Program	n Total	
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	0.10	0.10	0.00	0.00	
Winter kW Reduction	0.13	0.14	0.00	0.00	
Annual kWh Reduction	625	660	0	0	
Annual Demand and Energy Savings, Not	te 1		Participants	0	
			Program Total		
			@ Meter	@ Generator	
Summer kW Reduction			0.00	0.00	
Winter kW Reduction			0.00	0.00	
Annual kWh Reduction			0	0	
Utility Cost per Installation (\$):			0		
Total Program Cost of the Utility (\$000):			0.0		
Net Benefits of Measures Installed During R			(1.6)		
Note 1: Demand and energy savings not inc	luded in achie	vements			

	Demand Side Management Annual Report								
Utility: Program Na Program St Reporting P	art Date:	Tampa Electri RESIDENTIA November 198 Annual 2021	L CEILING INSU	JLATION					
а	b	С	d	е	f	g	h	i	j
				Projected	Projected	Actual	Actual	Actual	Actual Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	494,802	7,200	7,200	1.5%	3,057	3,057	0.6%	(4,143)
2016	640,090	491,745	2,760	9,960	2.0%	1,293	4,350	0.9%	(5,610)
2017	651,770	490,452	1,255	11,215	2.3%	945	5,295	1.1%	(5,920)
2018	662,917	489,507	1,300	12,515	2.6%	594	5,889	1.2%	(6,626)
2019	677,922	488,913	550	13,065	2.7%	595	6,484	1.3%	(6,581)
2020	691,719	488,318	450	13,515	2.8%	265	6,749	1.4%	(6,766)
2021	704,770	488,053	400	13,915	2.9%	382	7,131	1.5%	(6,784)
2022									
2023									

Annual Demand and Energy Savings - 2	Participants	382		
	Progra	m Total		
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.32	0.35	123.004	131.98
Winter kW Reduction	0.42	0.45	161.968	173.79
Annual kWh Reduction	673	711	257,086	271,483

Annual Demand and Energy Savings	Participants	382 m Total
	@ Meter	@ Generator
Summer kW Reduction	123.00	131.98
Winter kW Reduction	161.97	173.79
Annual kWh Reduction	257,086	271,483
Utility Cost per Installation (\$):	438	
Total Program Cost of the Utility (\$000):	167.5	
Net Benefits of Measures Installed During Reporting Period (\$000):	61.2	

	Demand Side Management Annual Report								
Utility: Program N Program S Reporting	Start Date:	Tampa Electri RESIDENTIA September 19 Annual 2021	L DUCT RÉPAI	R					
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Över (Ünder)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	480,750	1,680	1,680	0.3%	1,895	1,895	0.4%	215
2016	640,090	478,855	2,040	3,720	0.8%	1,293	3,188	0.7%	(532)
2017	651,770	477,562	1,530	5,250	1.1%	1,176	4,364	0.9%	(886)
2018	662,917	476,386	1,300	6,550	1.4%	1,997	6,361	1.3%	(189)
2019	677,922	474,389	1,000	7,550	1.6%	1,078	7,439	1.6%	(111)
2020	691,719	473,311	500	8,050	1.7%	251	7,690	1.6%	(360)
2021	704,770	473,060	385	8,435	1.8%	267	7,957	1.7%	(478)
2022									
2023									

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Annual Demand and Energy Savings - 2	nual Demand and Energy Savings - 2020-2029 DSM Plan						
	Per I	nstallation	Progra	m Total			
	@ Meter	@ Generator	@ Meter	@ Generator			
Summer kW Reduction	0.20	0.21	53.13	57.01			
Winter kW Reduction	0.33	0.36	88.91	95.40			
Annual kWh Reduction	185,832	196,239					
Annual Demand and Energy Savings	Participants	267					
			Progra	m Total			
			@ Meter	@ Generator			
Summer kW Reduction			53.13	57.01			
Winter kW Reduction			88.91	95.40			
Annual kWh Reduction			185,832	196,239			
Utility Cost per Installation (\$):			200				
Total Program Cost of the Utility (\$000):			53.4				
Net Benefits of Measures Installed During	Reporting Perio	d (\$000):	30.2				

				Demand Side M	anagement Annua	I Report			
Utility: Program N Program S Reporting	Start Date:	Tampa Electri ENERGY ANI May 2011 Annual 2021		EDUCATION, A	AWARENESS ANI	D AGENCY OUTF	REACH		
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	628,392	2,000	2,000	0.3%	1,412	1,412	0.2%	(588)
2016	640,090	640,090	2,000	4,000	0.6%	461	1,873	0.3%	(2,127)
2017	651,770	651,770	500	4,500	0.7%	975	2,848	0.4%	(1,652)
2018	662,917	662,917	750	5,250	0.8%	806	3,654	0.6%	(1,596)
2019	677,922	677,922	700	5,950	0.9%	1,304	4,958	0.7%	(992)
2020	691,719	691,719	750	6,700	1.0%	445	5,403	0.8%	(1,297)
2021	704,770	704,770	1,400	8,100	1.1%	810	6,213	0.9%	(1,887)
2022									
2023									

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Annual Demand and Energy Savings	- 2020-2029 DSM	Plan	Participants	810		
	Per In	stallation	Progra	m Total		
	@ Meter @ Generator					
Summer kW Reduction	0.04	0.04	33.21	35.63		
Winter kW Reduction	0.05	0.05	40.50	43.46		
Annual kWh Reduction	366	386	296,460	313,062		
Annual Demand and Energy Savings		Participants	810			
			@ Meter	@ Generator		
Summer kW Reduction			33.21	35.63		
Winter kW Reduction			40.50	43.46		
Annual kWh Reduction			296,460	313,062		
Utility Cost per Installation (\$):			295			
Total Program Cost of the Utility (\$000)	:		238.8			
Net Benefits of Measures Installed Duri	na Reportina Perio	d (\$000):	(223.7)			

				Demand Side I	Management Annual	Report			
Utility: Program N Program S Reporting	Start Date:	Tampa Electr ENERGY ST/ June 2017 Annual 2021		ILTI-FAMILY RES	IDENCES				
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	0	0	0	0	0.0%	0	0	0.0%	0
2016	0	0	0	0	0.0%	0	0	0.0%	0
2017	201,074	3,820	600	600	15.7%	0	0	0.0%	(600)
2018	207,026	5,952	600	1,200	20.2%	0	0	0.0%	(1,200)
2019	210,907	3,881	250	1,450	37.4%	264	264	6.8%	(1,186)
2020	215,519	4,612	0	1,450	31.4%	0	264	5.7%	(1,186)
2021	236,621	6,025	0	1,450	24.1%	0	264	4.4%	(1,186)
2022									
2023									

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	Per	Installation	Program Total		
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	0.44	0.47	0.00	0.00	
Winter kW Reduction	0.30	0.32	0.00	0.00	
Annual kWh Reduction	1,460	1,542	0	0	

Annual Demand and Energy Savings	Participants	0
	Progra	am Total
	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	0	0
Utility Cost per Installation (\$):	0	
Total Program Cost of the Utility (\$000):	0.5	
Net Benefits of Measures Installed During Reporting Period (\$000):	1.6	

				Demand Side	Management Annual	Report			
Utility:Tampa Electric CompanyProgram Name:ENERGY STAR for NEW HOMES (formerly RESIDENTIAL NEW CONSTRUCTION)Program Start Date:Closed New Construction and opened ENERGY STAR November 2015Reporting Period:Annual 2021									
а	b	С	d	e	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	4,361	2,400	2,400	55.0%	2,494	2,494	57.2%	94
2016	640,090	3,870	1,200	3,600	93.0%	403	2,897	74.9%	(703)
2017	651,770	2,953	1,000	4,600	155.8%	640	3,537	119.8%	(1,063)
2018	662,917	9,544	1,000	5,600	58.7%	823	4,360	45.7%	(1,240)
2019	677,922	9,929	1,000	6,600	66.5%	849	5,209	52.5%	(1,391)
2020	691,719	9,798	1,000	7,600	77.6%	858	6,067	61.9%	(1,533)
2021	704,770	9,931	1,160	8,760	88.2%	1,006	7,073	71.2%	(1,687)
2022									

Annual Demand and Energy Savin	ngs - 2020-2029 DSM	Plan	Participants	1,006			
	Per I	nstallation	Progra	m Total			
	@ Meter	@ Generator	@ Meter	@ Generator			
Summer kW Reduction	1.98	2.12	1,991.88	2,137.29			
Winter kW Reduction	0.60	0.64	604.61	648.74			
Annual kWh Reduction	5,378	5,679	5,410,268	5,713,243			
Annual Demand and Energy Savi	nual Demand and Energy Savings						
			Progra	m Total			
			@ Meter	@ Generator			
Summer kW Reduction			1,991.88	2,137.29			
Winter kW Reduction			604.61	648.74			
Annual kWh Reduction			5,410,268	5,713,243			
Utility Cost per Installation (\$):			1,015				
Total Program Cost of the Utility (\$0	000):		1,021.0				
Net Benefits of Measures Installed [Durina Reportina Perio	od (\$000):	2,917.3				

tility: rogram N rogram S eporting F	tart Date:	Tampa Electric C ENERGY STAR November 2020 Annual 2021							
а	b	С	d	е	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participatior Over (Under Projected Participants (h-e)
2015 2016 2017 2018 2019 2020 2021 2022 2023 2023 2024	691,719 704,770	480,812 489,251	3 510	Program w 3 510	as started on Noverr 0.0% 0.1%	nber 2, 2020 10 628	10 628	0.0% 0.1%	7 118
ummer k\	mand and Ene W Reduction Reduction	rgy Savings - 202		n stallation <u>@ Generator</u> 1.84 0.00	Participants Progran @ Meter 1,078.90 0.00	628 n Total @ Generator 1,157.66 0.00			
	'h Reduction		3,162	3,339	0.00 1,985,736	2,096,937			
nnual De	emand and Ene	rgy Savings			Participants Progran @ Meter	628 n Total @ Generator			
	W Reduction Reduction h Reduction				1,078.90 0.00 1,985,736	<u>@ Generator</u> 1,157.66 0.00 2,096,937			

				Demand Side M	anagement Annual F	Report			
Jtility: Program N Program S Reporting F	tart Date:	Tampa Electric C ENERGY STAR November 2020 Annual 2021		5					
а	b	с	d	е	f	g	h	i	j
Year 2015	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participatior Over (Under Projected Participants (h-e)
2013 2016 2017 2018 2019 2020	691,719	691,719	5	Program w	as started on Novem 0.0%	nber 2, 2020 42	42	0.0%	37
2020 2021 2022 2023 2024	704,770	704,770	1,000	1,000	0.1%	950	950	0.1%	(50
	mand and Ene W Reduction	rgy Savings - 2020		n stallation @ Generator 0.25	Participants Program @ Meter 224.20	950 n Total @ Generator 240.57			
	Reduction		0.00	0.00	0.00	0.00			
			262	277	248,900	262,838			
	h Reduction								
Annual kW Annual De	mand and Ene	rgy Savings			Participants Program @ Meter	@ Generator			
Annual kW Annual De Summer k\		rgy Savings			Program	n Total			

50 47.5 29.5

Utility Cost per Installation (\$): Total Program Cost of the Utility (\$000): Net Benefits of Measures Installed During Reporting Period (\$000):

				Demand Sic	le Management Ar	nual Report			
Utility: Program N Program S Reporting I	tart Date:	Tampa Electri RESIDENTIAI July 2000 Annual 2021	ic Company L HEATING AN	D COOLING					
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	628,392	3,840	3,840	0.6%	5,214	5,214	0.8%	1,374
2016	640,090	640,090	3,480	7,320	1.1%	3,693	8,907	1.4%	1,587
2017	651,770	651,770	4,200	11,520	1.8%	3,341	12,248	1.9%	728
2018	662,917	662,917	4,000	15,520	2.3%	3,371	15,619	2.4%	99
2019	677,922	677,922	3,500	19,020	2.8%	3,638	19,257	2.8%	237
2020	691,719	691,719	3,400	22,420	3.2%	3,578	22,835	3.3%	415
2021	704,770	704,770	3,230	25,650	3.6%	2,839	25,674	3.6%	24
2022									

Annual Demand and Energy Savings - 20	nual Demand and Energy Savings - 2020-2029 DSM Plan							
	Per In	stallation	Progra	m Total				
	@ Meter	@ Generator	@ Meter	@ Generator				
Summer kW Reduction	0.20	0.21	553.61	594.02				
Winter kW Reduction	0.21	0.22	587.67	630.57				
Annual kWh Reduction	394	416	1,118,566	1,181,206				
Annual Demand and Energy Savings	Participants	2,839						
			Progra	m Total				
			@ Meter	@ Generator				
Summer kW Reduction			553.61	594.02				
Winter kW Reduction			587.67	630.57				
Annual kWh Reduction			1,118,566	1,181,206				
Utility Cost per Installation (\$):			157					
Total Program Cost of the Utility (\$000):			446.9					
Net Benefits of Measures Installed During F	Reporting Perio	d (\$000):	35.7					

	Demand Side Management Annual Report									
Utility: Program Na Program St Reporting F	tart Date:	•								
а	b	С	d	е	f	g	h	i	j Actual	
				Projected	Projected	Actual	Actual	Actual	Participation	
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)	
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected	
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants	
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)	
2015	628,392	109,703	6,600	6,600	6.0%	7,912	7,912	7.2%	1,312	
2016	640,090	111,745	7,250	13,850	12.4%	5,495	13,407	12.0%	(443)	
2017	651,770	113,784	6,250	20,100	17.7%	6,550	19,957	17.5%	(143)	
2018	662,917	115,730	7,000	27,100	23.4%	7,389	27,346	23.6%	246	
2019	677,922	118,350	7,000	34,100	28.8%	6,740	34,086	28.8%	(14)	
2020	691,719	120,758	6,500	40,600	33.6%	1,760	35,846	29.7%	(4,754)	
2021	704,770	123,037	6,050	46,650	37.9%	2,923	38,769	31.5%	(7,881)	
2022										

Annual Demand and Energy Savings	- 2020-2029 DSM	Plan	Participants	2,923
	Per In	stallation	Prograi	m Total
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.53	0.57	1,560.88	1,674.83
Winter kW Reduction	0.64	0.69	1,879.49	2,016.69
Annual kWh Reduction	1,932	2,040	5,647,236	5,963,481
Annual Demand and Energy Savings		Participants	2,923	
			Progra	m Total
			@ Meter	@ Generator
Summer kW Reduction			1,560.88	1,674.83
Winter kW Reduction			1,879.49	2,016.69
Annual kWh Reduction			5,647,236	5,963,481
Utility Cost per Installation (\$):			270	
Total Program Cost of the Utility (\$000)):		790.1	
Net Benefits of Measures Installed Dur	(9,155.7)			

			ſ	Demand Side M	Demand Side Management Annual Report									
Utility: Program N Program S Reporting I	Start Date:	Tampa Electri ENERGY PLA September 20 Annual 2021	ANNER											
а	b	с	d	е	f	g	h	i	j Actual					
				Projected	Projected	Actual	Actual	Actual	Participation					
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)					
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected					
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants					
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)					
2015	628,392	628,392	1,000	1,000	0.2%	1,088	1,088	0.2%	88					
2016	640,090	640,090	1,000	2,000	0.3%	910	1,998	0.3%	(2)					
2017	651,770	651,770	1,000	3,000	0.5%	574	2,572	0.4%	(428)					
2018	662,917	662,917	1,000	4,000	0.6%	747	3,319	0.5%	(681)					
2019	677,922	677,922	1,250	5,250	0.8%	897	4,216	0.6%	(1,034)					
2020	691,719	691,719	750	6,000	0.9%	138	4,354	0.6%	(1,646)					
2021	704,770	704,770	900	6,900	1.0%	98	4,452	0.6%	(2,448)					
2022														
2023														

Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 98								
	Per In	stallation	Progra	m Total				
	@ Meter	@ Generator	@ Meter	@ Generator				
Summer kW Reduction	2.01	2.15	196.69	211.04				
Winter kW Reduction	3.13	3.36	307.13	329.55				
Annual kWh Reduction	1,156	1,221	113,288	119,632				
Annual Demand and Energy Savings, No	Participants	98						
			Progra	m Total				
			@ Meter	@ Generator				
Summer kW Reduction			196.69	211.04				
Winter kW Reduction			307.13	329.55				
Annual kWh Reduction			113,288	119,632				
Utility Cost per Installation (\$) Note 1:			442					
Total Program Cost of the Utility (\$000):			1,971.0					
Net Benefits of Measures Installed During I Note 1: Utility costs based upon total progra	(·)	3,416.7						

	Demand Side Management Annual Report										
Utility: Program Na Program St Reporting F	tart Date:	RESIDENTIA	Tampa Electric Company RESIDENTIAL PRIME TIME PLUS (Residential Load Management) November 2020 Annual 2021								
а	b	С	d	е	f	g	h	i	j Actual		
				Projected	Projected	Actual	Actual	Actual	Participation		
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)		
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected		
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants		
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)		
2015											
2016											
2017											
2018 2019				Drogrom w	on started on Nov	ombor 2, 2020					
2019				Filogram	as started on Nov	ember 2, 2020					
2020		Company is	waiting on the f	ull deployment o	f the Advanced M	letering Infrastruct	ure System to in	vitate program			
2021		Company is	waiting on the i				ure bystern to in	inate program			
2022											
2024											

Annual Demand and Energy Savings - 2	Demand and Energy Savings - 2020-2029 DSM Plan					
	Per In	stallation	Progra	m Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	1.93	2.07	0.00	0.00		
Winter kW Reduction	1.89	2.03	0.00	0.00		
Annual kWh Reduction	0	0	0	0		
Annual Demand and Energy Savings, N	ote 1		Participants	0		
	Progra	m Total				
			@ Meter	@ Generator		
Summer kW Reduction			0.00	0.00		
Winter kW Reduction			0.00	0.00		
Annual kWh Reduction			0	0		
Utility Cost per Installation (\$) Note 1:			0			
Total Program Cost of the Utility (\$000):			0.5			
Net Benefits of Measures Installed During	Reporting Peric	od (\$000):	0.0			
Note 1: Utility costs based upon total prog	ram costs and to	otal participation				

	Demand Side Management Annual Report									
Utility: Program N Program S Reporting	Start Date:	Tampa Electri RESIDENTIA March 2008 Annual 2021	c Company L WINDOW RE	PLACEMENT						
а	b	с	d	е	f	g	h	i	j Actual	
		Total	Total	Projected Cumulative	Projected Cumulative	Actual Annual	Actual Cumulative	Actual Cumulative	Participation Over (Under)	
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected	
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants	
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)	
2015	628,392	619,895	1,608	1,608	0.3%	1,811	1,811	0.3%	203	
2016	640,090	629,783	1,584	3,192	0.5%	1,417	3,228	0.5%	36	
2017	651,770	640,046	1,800	4,992	0.8%	1,482	4,710	0.7%	(282)	
2018	662,917	649,710	1,600	6,592	1.0%	1,817	6,527	1.0%	(65)	
2019	677,922	662,898	1,800	8,392	1.3%	1,878	8,405	1.3%	13	
2020	691,719	674,817	1,775	10,167	1.5%	1,875	10,280	1.5%	113	
2021	704,770	685,993	1,400	11,567	1.7%	1,176	11,456	1.7%	(111)	
2022										
2023										

Annual Demand and Energy Savings - 2	nual Demand and Energy Savings - 2020-2029 DSM Plan					
	Per In	stallation	Program Total			
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	0.13	0.14	157.58	169.09		
Winter kW Reduction	0.41	0.44	486.86	522.41		
Annual kWh Reduction	235	248	276,360	291,836		
Annual Demand and Energy Savings			Participants	1,176		
			Progra	m Total		

	Program Total			
	@ Meter	@ Generator		
Summer kW Reduction	157.58	169.09		
Winter kW Reduction	486.86	522.41		
Annual kWh Reduction	276,360	291,836		
Utility Cost per Installation (\$):	222			
Total Program Cost of the Utility (\$000):	261.0			
Net Benefits of Measures Installed During Reporting Period (\$000):	63.6			

Demand Side Management Annual Report									
ame: art Date: Period:	•		TRIAL AUDIT						
b	С	d	е	f	g	h	i	j	
	Total	Total	Projected Cumulative	Projected Cumulative	Actual Annual	Actual Cumulative	Actual Cumulative	Actual Participation Over (Under)	
Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected	
Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants	
Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)	
80,277	80,277	888	888	1.1%	913	913	1.1%	25	
80,875	80,875	860	1,748	2.2%	764	1,677	2.1%	(71)	
81,532	81,532	870	2,618	3.2%	1,211	2,888	3.5%	270	
81,740	81,740	1,200	3,818	4.7%	797	3,685	4.5%	(133)	
82,359	82,359	800	4,618	5.6%	866	4,551	5.5%	(67)	
83,332	83,332	500	5,118	6.1%	238	4,789	5.7%	(329)	
84,093	84,093	400	5,518	6.6%	101	4,890	5.8%	(628)	
	art Date: Period: b Total Number of <u>Customers</u> 80,277 80,875 81,532 81,540 82,359 83,332	ame: FREE COMM art Date: July 1983 Period: Annual 2021 b c Total Number of Customers 80,277 80,875 81,532 81,532 81,740 82,359 83,332 83,332	Tampa Electric Company FREE COMMERCIAL/INDUS art Date:art Date:July 1983 Period:bcbcdTotal Number of EligibleNumber of 0,0277Number of 80,27780,27780,277 80,87580,875 81,53280,875 81,74081,740 83,33281,332 83,332	ame: art Date: Period: Total Total Number of Customers 80,277	Tampa Electric Company Tampa Electric Company FREE COMMERCIAL/INDUSTRIAL AUDIT art Date: July 1983 Period:FREE COMMERCIAL/INDUSTRIAL AUDIT art Date: July 1983 Annual 2021bcdefbcdefTotal Number of Customers 80,277Total 80,277Total 80,277Projected Number of Projected ParticipantsProjected Cumulative Participants ParticipantsProjected Cumulative Penetration Level % [(e/c)x100]80,875 80,87580,875 80,875860 81,5321,748 81,5322.2% 81,53281,740 81,74081,740 81,7401,200 1,2003,818 8184.7% 82,35983,33283,3325005,1186.1%	Tampa Electric Company FREE COMMERCIAL/INDUSTRIAL AUDIT art Date: July 1983 Period:FREE COMMERCIAL/INDUSTRIAL AUDIT art Date: July 1983 Period:bcdefgbcdefgTotalTotal Number of EligibleTotal Projected ProjectedProjected Cumulative Program Penetration Icevel %Actual Annual Number of Program Participants80,27780,277 80,277888 888888 1.11%1.11% 913 913 3.22%Participants 764 1.200Participants 3.8181.1% 4.7%Participants 797 797 82,359800 83,3324.618 5.6%5.6% 866	Tampa Electric Company FREE COMMERCIAL/INDUSTRIAL AUDIT art Date: July 1983 Period:FREE COMMERCIAL/INDUSTRIAL AUDIT and 2021bcdefghDeriod:Annual 2021Projected CumulativeProjected ProjectedActual AnnualActual Cumulative Number of ProjectedActual Cumulative PenetrationActual Annual Number of ProgramActual Cumulative ProgramActual Cumulative PenetrationActual Annual Number of ProgramActual Cumulative PenetrationActual Annual Number of ProgramActual Cumulative PenetrationActual Annual Number of ProgramActual Projected ProgramActual Cumulative PenetrationActual Annual Number of ProgramActual Cumulative Penetration ProgramActual Penetration ProgramActual Program Program80,27780,8758601,7482.2%7641,67781,53281,5328702,6183.2%1,2112,88881,74081,7401,2003,8184.7%7973,68582,35982,3598004,6185.6%8664,55183,33283,3325005,1186.1%2384,789	Tampa Electric Company ame: art Date: July 1983 Period:Tampa Electric Company Amme: FREE COMMERCIAL/INDUSTRIAL AUDIT art Date: July 1983 Period:Tampa Electric Company FREE COMMERCIAL/INDUSTRIAL AUDIT art Date: July 1983 Period:Tampa Electric Company FREE COMMERCIAL/INDUSTRIAL AUDIT art Date: July 1983 Period:FREE COMMERCIAL/INDUSTRIAL AUDIT at Date: July 1983 Period:Annual 2021bcdefghiTotal Number of EligibleTotal Number of Projected ProjectedProjected Cumulative Number of Program [(e/c)x100]Actual Annual Number of Program [(e/c)x100]Actual Cumulative Penetration Level % [(e/c)x100]Actual Cumulative Penetration Program ParticipantsActual Cumulative Penetration Level % [(h/c)x100]Actual Cumulative Penetration Program ParticipantsActual Cumulative Penetration Level % [(h/c)x100]Actual Cumulative Penetration Level % [(h/c)x100]Actual Cumulative Penetration Level % [(h/c)x100]Actual Cumulative Penetration Level % [(h/c)x100]Actual Cumulative Penetration Level % [(h/c)x100]Actual Cumulative Penetration Level % [(h/c)x100]80,27780,875 80,875 81,532860 81,7401,748 2.2% 7641,677 2.1%2.1% 80,87581,532 81,74081,740 81,7401,200 3,818 81,7403,885 4,6184,7% 5,6% 866 866 4,5513,5% 5,5% 83,3	

Annual Demand and Energy Savings - 20	ual Demand and Energy Savings - 2020-2029 DSM Plan						
	Per Ins	stallation	Progra	m Total			
	@ Meter	@ Generator	@ Meter	@ Generator			
Summer kW Reduction	0.09	0.10	9.39	10.05			
Winter kW Reduction	0.09	0.10	9.49	10.16			
Annual kWh Reduction	817	859	82,517	86,808			
Annual Demand and Energy Savings, No	Participants	101					
			Progra	m Total			
			@ Meter	@ Generator			
Summer kW Reduction			9.39	10.05			
Winter kW Reduction			9.49	10.16			
Annual kWh Reduction			82,517	86,808			
Utility Cost per Installation (\$):			2,504				
Total Program Cost of the Utility (\$000):			252.9				
Net Benefits of Measures Installed During F Note 1: Demand and energy savings not in	(138.9)						

	Demand Side Management Annual Report									
Utility:Tampa Electric CompanyProgram Name:COMPREHENSIVE COMMERCIAL/INDUSTRIAL AUDITProgram Start Date:May 1981Reporting Period:Annual 2021										
а	b	С	d	е	f	g	h	i	j Actual	
				Projected	Projected	Actual	Actual	Actual	Participation	
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)	
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected	
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants	
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)	
2015	80,277	80,277	6	6	0.0%	1	1	0.0%	(5)	
2016	80,875	80,875	10	16	0.0%	4	5	0.0%	(11)	
2017	81,532	81,532	8	24	0.0%	0	5	0.0%	(19)	
2018	81,740	81,740	4	28	0.0%	1	6	0.0%	(22)	
2019	82,359	82,359	2	30	0.0%	1	7	0.0%	(23)	
2020	83,332	83,332	1	31	0.0%	0	7	0.0%	(24)	
2021	84,093	84,093	1	32	0.0%	0	7	0.0%	(25)	
2022										
2023										
2024										

Annual Demand and Energy Savings - 20	020-2029 DSM	Plan	Participants	0	
	Per Ins	stallation	Progra	m Total	
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	0.09	0.10	0.00	0.00	
Winter kW Reduction	0.09	0.10	0.00	0.00	
Annual kWh Reduction	859	0	0		
Annual Demand and Energy Savings, No		Participants	0		
			Progra	m Total	
			@ Meter	@ Generator	
Summer kW Reduction			0.00	0.00	
Winter kW Reduction			0.00	0.00	
Annual kWh Reduction			0	0	
Utility Cost per Installation (\$):			0		
Total Program Cost of the Utility (\$000):					
Net Benefits of Measures Installed During	Reporting Perio	d (\$000):	(2.0)		

Net Benefits of Measures Installed During Reporting Period (\$000): Note 1: Demand and energy savings not included in achievements

				Demand Side Ma	anagement Annua	I Report			
Utility: Program Na Program Sta Reporting P	art Date:	Tampa Electri COMMERCIA March 2008 Annual 2021							
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	7,733	10	10	0.1%	7	7	0.1%	(3)
2016	80,875	8,851	10	20	0.2%	5	12	0.1%	(8)
2017	81,532	8,887	11	31	0.3%	7	19	0.2%	(12)
2018	81,740	9,023	8	39	0.4%	1	20	0.2%	(19)
2019	82,359	9,119	9	48	0.5%	5	25	0.3%	(23)
2020	83,332	9,089	2	50	0.6%	1	26	0.3%	(24)
2021	84,093	9,174	1	51	0.6%	0	26	0.3%	(25)
2022									
2023									

Note 1: Savings from measured data

Annual Demand and Energy Sav	ings - 2020-2029 DSM	Plan	Participants	0		
	Per In	stallation	Program	n Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	6.16	6.59	0.00	0.00		
Winter kW Reduction	2.48	2.65	0.00	0.00		
Annual kWh Reduction	17,863	18,792	0	0		
Annual Demand and Energy Sav	Participants	0				
			Program	n Total		
			@ Meter	@ Generator		
Summer kW Reduction			0.00	0.00		
Winter kW Reduction			0.00	0.00		
Annual kWh Reduction	0	0				
Utility Cost per Installation (\$):			0			
Total Program Cost of the Utility (\$		0.2				
Net Benefits of Measures Installed	Net Benefits of Measures Installed During Reporting Period (\$000):					

				Demand Side M	anagement Annua	I Report			
Utility: Program Na Program St Reporting F	art Date:	Tampa Electri CONSERVAT April 1991 Annual 2021							
а	b	с	d	е	f	g	h	i	j Actual
		Total	Total	Projected Cumulative	Projected Cumulative	Actual Annual	Actual Cumulative	Actual Cumulative	Participation Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	4	4	0.0%	4	4	0.0%	0
2016	80,875	80,875	4	8	0.0%	2	6	0.0%	(2)
2017	81,532	81,532	3	11	0.0%	0	6	0.0%	(5)
2018	81,740	81,740	2	13	0.0%	0	6	0.0%	(7)
2019	82,359	82,359	1	14	0.0%	0	6	0.0%	(8)
2020	83,332	83,332	1	15	0.0%	0	6	0.0%	(9)
2021	84,093	84,093	0	15	0.0%	0	6	0.0%	(9)
2022									
2023									

Annual Demand and Energy Savings - 2	020-2029 DSM	Plan	Participants 0				
	Per In	stallation	Progra	m Total			
	@ Meter	@ Generator	@ Meter	@ Generator			
Summer kW Reduction	185.40	198.38	0.00	0.00			
Winter kW Reduction	0.00	0.00	0.00	0.00			
Annual kWh Reduction	19,244	20,245	0	0			
Annual Demand and Energy Savings, N		Participants	0				
			Progra	m Total			
			@ Meter	@ Generator			
Summer kW Reduction			0.00	0.00			
Winter kW Reduction			0.00	0.00			
Annual kWh Reduction			0	0			
Utility Cost per Installation (\$):			0				
Total Program Cost of the Utility (\$000):	y 1 (0)						
Net Benefits of Measures Installed During Note 1: Savings from measured data	0.5						

			L	Demand Side Ma	8				
tility: rogram Na rogram St eporting F	tart Date:	Tampa Electri COMMERCIA May 2011 Annual 2021	ic Company L COOL ROOF						
а	b	с	d	е	f	g	h	i	j
									Actual
		T . (.)	T . (.)	Projected	Projected	Actual	Actual	Actual	Participatio
	Total	Total Number of	Total	Cumulative Number of	Cumulative	Annual Number of	Cumulative Number of	Cumulative	Over (Unde
			Number of		Penetration			Penetration	Projected
Voor	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participant
Year 2015	Customers	Customers 80,128	Participants 35	Participants 35	[(e/c)x100] 0.0%	Participants 45	Participants	[(h/c)x100]	(h-e)
2015	80,277 80,875	80,128 80,681	35 25	35 60	0.0%	45 25	45 70	0.1% 0.1%	1) 1)
2016	80,875	81,313	25 25	85	0.1%	25 13	83	0.1%	(1
2017	,	,	25 20	85 105	0.1%	21	83 104	0.1%	,
2018	81,740 82,359	81,508 82,106	20 15	105	0.1%	∠⊺ 15	104	0.1%	(
2019	83,332	83,064	15	135	0.1%	22	141	0.1%	(
2020	84,093	83,803	0	135	0.2%	4	141	0.2%	1
2021	,	,	-		o COVID, allowed		-		
-	FI								021
2023									
2023 2024									
2024	mand and Ener	gy Savings - 2	015-2024 DSM	Plan	Participants	4			
2024	mand and Ener	gy Savings - 2		Plan stallation		4 Program Total			
2024 nnual De		gy Savings - 2	Per In: @ Meter	stallation @ Generator	@ Meter	Program Total @ Generator			
2024 nnual Der ummer kV	V Reduction	gy Savings - 2	Per In: @ Meter 14.51	stallation @ Generator 15.53	@ Meter 58.04	Program Total @ Generator 62.11			
2024 nnual De ummer kV /inter kW	V Reduction Reduction	gy Savings - 2	Per In: @ Meter 14.51 0.00	stallation @ Generator 15.53 0.00	@ Meter 58.04 0.00	Program Total @ Generator 62.11 0.00			
2024 nnual De ummer kV inter kW	V Reduction	gy Savings - 2	Per In: @ Meter 14.51	stallation @ Generator 15.53	@ Meter 58.04	Program Total @ Generator 62.11			
2024 nnual De ummer kV inter kW	V Reduction Reduction	rgy Savings - 2	Per In: @ Meter 14.51 0.00	stallation @ Generator 15.53 0.00	@ Meter 58.04 0.00	Program Total @ Generator 62.11 0.00			
2024 nnual Der ummer kV /inter kW nnual kWI	V Reduction Reduction h Reduction		Per In @ Meter 14.51 0.00 46,923	stallation @ Generator 15.53 0.00	@ Meter 58.04 0.00 187,692	Program Total @ Generator 62.11 0.00 197,452			
2024 nnual Der ummer kV (inter kW nnual kWI	V Reduction Reduction		Per In @ Meter 14.51 0.00 46,923	stallation @ Generator 15.53 0.00	@ Meter 58.04 0.00 187,692 Participants Program	Program Total @ Generator 62.11 0.00 197,452 4 Total			
2024 nnual Der ummer kV /inter kW nnual kWI	V Reduction Reduction h Reduction mand and Ener		Per In @ Meter 14.51 0.00 46,923	stallation @ Generator 15.53 0.00	@ Meter 58.04 0.00 187,692 Participants Program @ Meter	Program Total @ Generator 62.11 0.00 197,452 4 Total @ Generator			
2024 nnual Der ummer kV /inter kW nnual kWi nnual Der ummer kV	V Reduction Reduction h Reduction mand and Ener V Reduction		Per In @ Meter 14.51 0.00 46,923	stallation @ Generator 15.53 0.00	@ Meter 58.04 0.00 187,692 Participants Program @ Meter 58.04	Program Total @ Generator 62.11 0.00 197,452 4 Total @ Generator 62.11			
2024 nnual Der ummer kW inter kW nnual kWi nnual Der ummer kW	V Reduction Reduction h Reduction mand and Ener V Reduction Reduction		Per In @ Meter 14.51 0.00 46,923	stallation @ Generator 15.53 0.00	@ Meter 58.04 0.00 187,692 Participants Program @ Meter 58.04 0.00	Program Total @ Generator 62.11 0.00 197,452 4 <u>4</u> Total @ Generator 62.11 0.00			
2024 nnual Der ummer kV /inter kW nnual kWi nnual Der ummer kV /inter kW	V Reduction Reduction h Reduction mand and Ener V Reduction		Per In @ Meter 14.51 0.00 46,923	stallation @ Generator 15.53 0.00	@ Meter 58.04 0.00 187,692 Participants Program @ Meter 58.04	Program Total @ Generator 62.11 0.00 197,452 4 Total @ Generator 62.11			
2024 nnual Dei ummer kW inter kW nnual kWi nnual Dei ummer kW inter kW	V Reduction Reduction h Reduction mand and Ener V Reduction Reduction h Reduction	gy Savings, No	Per In @ Meter 14.51 0.00 46,923	stallation @ Generator 15.53 0.00	@ Meter 58.04 0.00 187,692 Participants Program @ Meter 58.04 0.00 187,692	Program Total @ Generator 62.11 0.00 197,452 4 <u>4</u> Total @ Generator 62.11 0.00			
2024 nnual Dei ummer kW /inter kW nnual kWl ummer kV /inter kW nnual kWl tility Cost	V Reduction Reduction h Reduction mand and Ener V Reduction Reduction h Reduction per Installation	gy Savings, No	Per In @ Meter 14.51 0.00 46,923	stallation @ Generator 15.53 0.00	@ Meter 58.04 0.00 187,692 Participants Program @ Meter 58.04 0.00 187,692 24,996	Program Total @ Generator 62.11 0.00 197,452 4 <u>4</u> Total @ Generator 62.11 0.00			
2024 nnual Dei ummer kW /inter kW nnual kWl ummer kW /inter kW nnual kWl tility Cost otal Progra	V Reduction Reduction h Reduction mand and Ener V Reduction Reduction h Reduction	'gy Savings, No (\$): Jtility (\$000):	Per In: @ Meter 14.51 0.00 46,923	stallation @ Generator 15.53 0.00 49,363	@ Meter 58.04 0.00 187,692 Participants Program @ Meter 58.04 0.00 187,692	Program Total @ Generator 62.11 0.00 197,452 4 <u>4</u> Total @ Generator 62.11 0.00			

				Demand Side M	lanagement Annua	al Report			
Utility: Program N Program S Reporting I	Start Date:	Tampa Electri COMMERCIA July 2000 Annual 2021	ic Company AL COOLING - D	νX					
а	b	С	d	е	f	g	h	i	j
		Total	Total	Projected Cumulative	Projected Cumulative	Actual Annual	Actual Cumulative	Actual Cumulative	Actual Participation Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	127	127	0.2%	234	234	0.3%	107
2016	80,875	80,875	130	257	0.3%	9	243	0.3%	(14)
2017	81,532	81,532	16	273	0.3%	0	243	0.3%	(30)
2018	81,740	81,740	5	278	0.3%	25	268	0.3%	(10)
2019	82,359	82,359	5	283	0.3%	15	283	0.3%	0
2020	83,332	83,332	15	298	0.4%	14	297	0.4%	(1)
2021	84,093	84,093	15	313	0.4%	44	341	0.4%	28
2022									
2023									

Annual Demand and Energy Savings - 2	nual Demand and Energy Savings - 2020-2029 DSM Plan					
	Per In:	stallation	Progra	m Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	1.66	1.78	73.17	78.29		
Winter kW Reduction	0.00	0.00	0.00	0.00		
Annual kWh Reduction	4,023	4,232	177,012	186,217		
Annual Demand and Energy Savings, No	Participants	44				
			Program Total			
			@ Meter	@ Generator		
Summer kW Reduction			73.17	78.29		
Winter kW Reduction			0.00	0.00		
Annual kWh Reduction			177,012	186,217		
Utility Cost per Installation (\$):			304			
Total Program Cost of the Utility (\$000):	13.4					
Net Benefits of Measures Installed During Note 1: Savings from measured data	0.7					

	Demand Side Management Annual Report									
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electri COMMERCIA March 2008 Annual 2021	c Company L DEMAND RE	SPONSE						
а	b	С	d	е	f	g	h	i	j Actual	
				Projected	Projected	Actual	Actual	Actual	Participation	
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)	
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected	
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants	
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)	
2015	80,277	12,302	1	1	0.0%	4	4	0.0%	3	
2016	80,875	12,937	1	2	0.0%	0	4	0.0%	2	
2017	81,532	13,383	1	3	0.0%	0	4	0.0%	1	
2018	81,740	13,730	1	4	0.0%	1	5	0.0%	1	
2019	82,359	13,804	1	5	0.0%	0	5	0.0%	0	
2020	83,332	14,079	1	6	0.0%	0	5	0.0%	(1)	
2021	84,093	14,561	1	7	0.0%	0	5	0.0%	(2)	
2022 2023										

Per Ins	stallation				
@ Meter @ Generator		Program	Total		
2 Meter	@ Generator	@ Meter	@ Generator		
404.04	432.32	0.00	0.00		
404.04	432.32	0.00	0.00		
nnual kWh Reduction 30,298 31,873					
nnual Demand and Energy Savings, Note 1					
		@ Meter	@ Generator		
		0.00	0.00		
		0.00	0.00		
		0	0		
		30,575			
		2,812.9			
oorting Perio	d (\$000):	358.6			
costs and to	tal participation				
	404.04 404.04 30,298 1 Doorting Period	404.04 432.32 404.04 432.32 30,298 31,873	404.04 432.32 0.00 404.04 432.32 0.00 30,298 31,873 0 1 Participants Program @ Meter 0.00 0.00 0.00 0 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0 0.00 0.00 0 0.00 0.00 0 0.00 0.00 0 0.00 0.00 0 0.00 0.00 0 0.00 0.00 0 30,575 2,812.9 358.6 358.6		

				Demand Side M	anagement Annua	al Report			
Utility: Program N Program S Reporting I	start Date:	Tampa Electri FACILITY EN November 20 Annual 2021	ERGY MANAGE	EMENT SYSTEN	1				
а	b	с	d	e	f	g	h	i	j Actual
	Total Number of	Total Number of Eligible	Total Number of Projected	Projected Cumulative Number of Program	Projected Cumulative Penetration Level %	Actual Annual Number of Program	Actual Cumulative Number of Program	Actual Cumulative Penetration Level %	Participation Over (Under) Projected Participants
Year 2015 2016 2017 2018	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	_[(h/c)x100]	<u>(h-e)</u>
2019				0	as started on Nove	ember 2, 2020			
2020	83,332	83,332	2	2	0.0%	0	0	0.0%	(2)
2021 2022 2023 2024	84,093	84,093	2	2	0.0%	2	2	200.0%	0

Annual Demand and Energy Savings	- 2020-2029 DSM	Plan	Participants	2	
	Per In	stallation	Progra	m Total	
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	97.20	104.00	194.39	208.00	
Winter kW Reduction	8.36	8.95	16.72	17.89	
Annual kWh Reduction	372,572	391,946	745,144	783,892	
Annual Demand and Energy Savings,	Participants 2				
			Program Total		
			@ Meter	@ Generator	
Summer kW Reduction			194.39	208.00	
Winter kW Reduction			16.72	17.89	
Annual kWh Reduction			745,144	783,892	
Utility Cost per Installation (\$):			0		
Total Program Cost of the Utility (\$000):	36.7				
Net Benefits of Measures Installed Durin Note 1: Savings from measured data	5.8				

				Demand Side M	anagement Annual	Report			
Utility: Program N Program S Reporting I	tart Date:	Tampa Electri INDUSTRIAL September 19 Annual 2021	LOAD MANAGE	EMENT					
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
#REF!	79,457	820	0	0	0.0%	0	0	0.0%	0
2016	80,875	848	0	0	0.0%	0	0	0.0%	0
2017	81,532	816	0	0	0.0%	0	0	0.0%	0
2018	81,740	954	0	0	0.0%	1	1	0.1%	1
2019	82,359	981	0	0	0.0%	1	2	0.2%	2
2020	83,332	840	1	1	0.1%	1	3	0.4%	2
2021	84,093	850	0	1	0.1%	0	3	0.4%	2
2022									
2023									

Annual Demand and Energy Savings -	2020-2029 DSM	Plan	Participants	0		
	Per In	stallation	Program	n Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	5,060.00	5,414.20	0.00	0.00		
Winter kW Reduction	4,757.00	5,089.99	0.00	0.00		
Annual kWh Reduction	1,184,085	1,245,657	0	0		
Annual Demand and Energy Savings,	nnual Demand and Energy Savings, Note 1					
			@ Meter	@ Generator		
Summer kW Reduction			0.00	0.00		
Winter kW Reduction			0.00	0.00		
Annual kWh Reduction			0	0		
Utility Cost per Installation (\$), Note 2:			647,711			
Total Program Cost of the Utility (\$000):			20,079.1			
Net Benefits of Measures Installed Durin Note 1: Savings from measured data	1,524.9					
Note 2: Utility costs based upon total pro	gram costs and to	tal participation				

				Demand Side M	anagement Annua	I Report			
Utility:Tampa Electric CompanyProgram Name:COMMERCIAL STREET AND OUTDOOR LIGHTING CONVERSIONProgram Start Date:February 2018Reporting Period:Annual 2021									
а	b	С	d	е	f	g	h	i	j
Year 2015 2016	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2017				Program	was started in Fel	oruary 2018			
2018	209,821	209,821	42,115	42,115	20.1%	31,936	31,936	15.2%	(10,179)
2019	209,821	177,885	40,000	82,115	46.2%	32,366	64,302	36.1%	(17,813)
2020	209,821	145,519	40,000	122,115	83.9%	25,469	89,771	61.7%	(32,344)
2021 2022 2023	209,821	120,050	24,000	146,115	121.7%	69,231	159,002	132.4%	12,887

Annual Demand and Energy Savings - 20	020-2029 DSM	Plan	Participants	69,231
	Per In:	stallation	Progra	m Total
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.13	0.14	9,207.72	9,852.26
Annual kWh Reduction	576	606	39,877,056	41,950,663
Annual Demand and Energy Savings, No		Participants	69,231	
			Progra	m Total
			@ Meter	@ Generator
Summer kW Reduction			0.00	0.00
Winter kW Reduction			9,207.72	9,852.26
Annual kWh Reduction			39,877,056	41,950,663
Utility Cost per Installation (\$):			134	
Total Program Cost of the Utility (\$000):			9,287.7	
Net Benefits of Measures Installed During I Note 1: Demand and energy savings not in	(· /	12,666.5		

				Demand Side M	lanagement Annua	I Report			
Utility:Tampa Electric CompanyProgram Name:COMMERCIAL LIGHTING - CONDITIONED SPACEProgram Start Date:January 1991Reporting Period:Annual 2021									
а	b	С	d	е	f	g	h	i	j Actual
		Total	Total	Projected Cumulative	Projected Cumulative	Actual Annual	Actual Cumulative	Actual Cumulative	Participation Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	6	6	0.0%	86	86	0.1%	80
2016	80,875	80,875	57	63	0.1%	159	245	0.3%	182
2017	81,532	81,532	75	138	0.2%	228	473	0.6%	335
2018	81,740	81,740	110	248	0.3%	193	666	0.8%	418
2019	82,359	82,359	475	723	0.9%	421	1,087	1.3%	364
2020	83,332	83,332	200	923	1.1%	186	1,273	1.5%	350
2021	84,093	84,093	150	1,073	1.3%	143	1,416	1.7%	343
2022									
2023									

Annual Demand and Energy Savings - 2	al Demand and Energy Savings - 2020-2029 DSM Plan							
	Per Ins	stallation	Program	n Total				
	@ Meter	@ Generator	@ Meter	@ Generator				
Summer kW Reduction	18.52	19.82	2,648.36	2,833.75				
Winter kW Reduction	14.42	15.43	2,062.06	2,206.40				
Annual kWh Reduction	88,599	93,206	12,669,657	13,328,479				
Annual Demand and Energy Savings, N		Participants	143					
			Program	n Total				
			@ Meter	@ Generator				
Summer kW Reduction			2,648.36	2,833.75				
Winter kW Reduction			2,062.06	2,206.40				
Annual kWh Reduction			12,669,657	13,328,479				
Utility Cost per Installation (\$):			3,407					
Total Program Cost of the Utility (\$000):			487.3					
Net Benefits of Measures Installed During Note 1: Savings from measured data	5,855.6							

				Demand Side M	anagement Annua	l Report			
Utility:Tampa Electric CompanyProgram Name:COMMERCIAL LIGHTING - UNCONDITIONED SPACEProgram Start Date:March 2008Reporting Period:Annual 2021									
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	2	2	0.0%	16	16	0.0%	14
2016	80,875	80,875	13	15	0.0%	60	76	0.1%	61
2017	81,532	81,532	50	65	0.1%	338	414	0.5%	349
2018	81,740	81,740	50	115	0.1%	246	660	0.8%	545
2019	82,359	82,359	200	315	0.4%	132	792	1.0%	477
2020	83,332	83,332	70	385	0.5%	93	885	1.1%	500
2021	84,093	84,093	115	500	0.6%	101	986	1.2%	486
2022									
2023									

Annual Demand and Energy Savings	- 2020-2029 DSM	Plan	Participants	101
	Per In:	stallation	Progra	m Total
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	10.63	11.38	1,074.03	1,149.22
Winter kW Reduction	10.63	11.38	1,074.03	1,149.22
Annual kWh Reduction	51,051	53,706	5,156,151	5,424,271
Annual Demand and Energy Savings		Participants 101		
			Progra	m Total
			@ Meter	@ Generator
Summer kW Reduction			1,074.03	1,149.22
Winter kW Reduction			1,074.03	1,149.22
Annual kWh Reduction			5,156,151	5,424,271
Utility Cost per Installation (\$):			1,812	
Total Program Cost of the Utility (\$000)):		183.0	
Net Benefits of Measures Installed Dur Note 1: Savings from measured data	5,118.4			

				Demand Side M	anagement Annua	al Report			
Utility: Program Na Program St Reporting F	art Date:	Tampa Electri COMMERCIA March 2008 Annual 2021	c Company L OCCUPANC [\]	Y SENSORS					
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	20	20	0.0%	2	2	0.0%	(18)
2016	80,875	80,875	15	35	0.0%	12	14	0.0%	(21)
2017	81,532	81,532	15	50	0.1%	4	18	0.0%	(32)
2018	81,740	81,740	12	62	0.1%	7	25	0.0%	(37)
2019	82,359	82,359	5	67	0.1%	3	28	0.0%	(39)
2020	83,332	83,332	6	73	0.1%	4	32	0.0%	(41)
2021	84,093	84,093	7	80	0.1%	4	36	0.0%	(44)
2022									
2023									

Annual Demand and Energy Savings - 20	ual Demand and Energy Savings - 2020-2029 DSM Plan					
	Per In:	stallation	Progra	am Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	5.09	5.44	20.35	21.78		
Winter kW Reduction	4.07	4.36	16.28	17.42		
Annual kWh Reduction	12,139	12,770	48,556	51,081		
Annual Demand and Energy Savings, No	Participants 4					
			Progra	am Total		
			@ Meter	@ Generator		
Summer kW Reduction			20.35	21.78		
Winter kW Reduction			16.28	17.42		
Annual kWh Reduction			48,556	51,081		
Utility Cost per Installation (\$):			3,638			
Total Program Cost of the Utility (\$000):						
Net Benefits of Measures Installed During F Note 1: Savings from measured data	24.0					

Demand Side Management Annual Report									
Utility:Tampa Electric CompanyProgram Name:COMMERCIAL LOAD MANAGEMENT- CYCLICProgram Start Date:January 1988Reporting Period:Annual 2021									
а	b	С	d	е	f	g	h	i	j A stual
				Projected	Projected	Actual	Actual	Actual	Actual Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	0	0	0.0%	0	0	0.0%	0
2016	80,875	80,875	0	0	0.0%	0	0	0.0%	0
2017	81,532	81,532	0	0	0.0%	0	0	0.0%	0
2018	81,740	81,740	0	0	0.0%	0	0	0.0%	0
2019	82,359	82,359	0	0	0.0%	0	0	0.0%	0
2020	83,332	83,332	0	0	0.0%	0	0	0.0%	0
2021	84,093	84,093	0	0	0.0%	0	0	0.0%	0
2022									
2023									
2024									

Annual Demand and Energy Savings - 2	ual Demand and Energy Savings - 2020-2029 DSM Plan						
	Per In:	stallation	Progra	m Total			
	@ Meter	@ Generator	@ Meter	@ Generator			
Summer kW Reduction	13.20	14.12	0.00	0.00			
Winter kW Reduction	0.00	0.00	0.00	0.00			
Annual kWh Reduction	0	0	0	0			
Annual Demand and Energy Savings, No		Participants	0				
			Progra	m Total			
			@ Meter	@ Generator			
Summer kW Reduction			0.00	0.00			
Winter kW Reduction			0.00	0.00			
Annual kWh Reduction			0	0			
Utility Cost per Installation (\$), Note 1:			1,633				
Total Program Cost of the Utility (\$000):	6.5						
Net Benefits of Measures Installed During	let Benefits of Measures Installed During Reporting Period (\$000):						
Note 1: Utility costs based upon total progr	ram costs and to	tal participation					

			De	mand Side Mar	agement Annua	al Report			
Utility: Program N Program S Reporting	tart Date:	Tampa Electri COMMERCIA January 1988 Annual 2021	L LOAD MANA	GEMENT- EXTE	ENDED				
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	0	0	0.0%	0	0	0.0%	0
2016	80,875	80,875	0	0	0.0%	0	0	0.0%	0
2017	81,532	81,532	0	0	0.0%	0	0	0.0%	0
2018	81,740	81,740	0	0	0.0%	0	0	0.0%	0
2019	82,359	82,359	0	0	0.0%	0	0	0.0%	0
2020	83,332	83,332	0	0	0.0%	0	0	0.0%	0
2021	84,093	84,093	0	0	0.0%	0	0	0.0%	0
2022									
2023									
2020									

Annual Demand and Energy Savings - 2	2020-2029 DSM	Plan	Participants	0
	Per In:	stallation	Progra	m Total
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	92.00	98.44	0.00	0.00
Winter kW Reduction	60.00	64.20	0.00	0.00
Annual kWh Reduction	0	0	0	0
Annual Demand and Energy Savings			Participants	0
			Progra	m Total
			@ Meter	@ Generator
Summer kW Reduction			0.00	0.00
Winter kW Reduction			0.00	0.00
Annual kWh Reduction			0	0
Utility Cost per Installation (\$):			0	
Total Program Cost of the Utility (\$000):			0.0	
Net Benefits of Measures Installed During	Reporting Period	d (\$000):	0.0	

			De	mand Side Man	lagement Annua	al Report			
Utility: Program Na Program Si Reporting F	tart Date:	Tampa Electri COMMERCIA November 20 Annual 2021	L SMART THEF	RMOSTATS					
а	b	С	d	е	f	g	h	i	j
Year 2015	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2016 2017 2018 2019				Program was	started on Nov	ember 2, 2020			
2020	83,332	83,332	5	5	0.0%	0	0	0.0%	(5)
2021 2022 2023 2024	84,093	84,093	50	50	0.1%	2	2	0.0%	(48)
Annual De	mand and Ener	rgy Savings - 2		stallation	Participants Program	2 m Total			
		rgy Savings - 2	Per In: @ Meter	stallation @ Generator	Prograi @ Meter	m Total @ Generator			
Summer k\	N Reduction	rgy Savings - 2	Per In: @ Meter 3.90	stallation @ Generator 4.17	Program @ Meter 7.79	m Total @ Generator 8.34			
Summer k\ Winter kW	N Reduction	rgy Savings - 2	Per In: @ Meter	stallation @ Generator	Prograi @ Meter	m Total @ Generator			
Summer k\ Winter kW Annual kW	N Reduction Reduction		Per In: @ Meter 3.90 1.42	stallation @ Generator 4.17 1.52	Program @ Meter 7.79 2.84	m Total @ Generator 8.34 3.04			
Summer k\ Winter kW Annual kW	N Reduction Reduction h Reduction		Per In: @ Meter 3.90 1.42	stallation @ Generator 4.17 1.52	Program @ Meter 7.79 2.84 1,810 Participants Program	m Total @ Generator 8.34 3.04 1,904 2 m Total			
Summer k\ Winter kW Annual kW Annual De	W Reduction Reduction h Reduction mand and Ene l		Per In: @ Meter 3.90 1.42	stallation @ Generator 4.17 1.52	Program @ Meter 7.79 2.84 1,810 Participants Program @ Meter	m Total @ Generator 8.34 3.04 1,904 2 m Total @ Generator		For DSM Fore	
Summer kV Winter kW Annual kW Annual De Summer kV	W Reduction Reduction h Reduction mand and Ene W Reduction		Per In: @ Meter 3.90 1.42	stallation @ Generator 4.17 1.52	Program @ Meter 7.79 2.84 1,810 Participants Program @ Meter 7.79	m Total @ Generator 8.34 3.04 1,904 2 m Total @ Generator 8.34		3.896	
Summer kV Winter kW Annual kW Annual De Summer kV Winter kW	W Reduction Reduction h Reduction mand and Ene W Reduction		Per In: @ Meter 3.90 1.42	stallation @ Generator 4.17 1.52	Program @ Meter 7.79 2.84 1,810 Participants Program @ Meter	m Total @ Generator 8.34 3.04 1,904 2 m Total @ Generator			
Summer kV Winter kW Annual kW Annual De Summer kV Winter kW Annual kW	W Reduction Reduction h Reduction mand and Ene W Reduction Reduction	rgy Savings	Per In: @ Meter 3.90 1.42	stallation @ Generator 4.17 1.52	Program @ Meter 7.79 2.84 1,810 Participants Program @ Meter 7.79 2.84	m Total @ Generator 8.34 3.04 1,904 2 m Total @ Generator 8.34 3.04		3.896 1.420	1
Summer kV Winter kW Annual kW Annual De Summer kV Winter kW Annual kW Utility Cost	W Reduction Reduction h Reduction mand and Ener W Reduction Reduction h Reduction	rgy Savings (\$):	Per In: @ Meter 3.90 1.42	stallation @ Generator 4.17 1.52	Program @ Meter 7.79 2.84 1,810 Participants Program @ Meter 7.79 2.84 1,810	m Total @ Generator 8.34 3.04 1,904 2 m Total @ Generator 8.34 3.04		3.896 1.420	

				Demand Side M	anagement Annu	ual Report			
Utility: Program N Program S Reporting	start Date:	Tampa Electri STANDBY GE January 1991 Annual 2021	ENERATOR						
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	2,304	0	0	0.0%	4	4	0.2%	4
2016	80,875	2,449	1	1	0.0%	0	4	0.2%	3
2017	81,532	2,430	1	2	0.1%	6	10	0.4%	8
2018	81,740	2,486	1	3	0.1%	1	11	0.4%	8
2019	82,359	2,608	7	10	0.4%	9	20	0.8%	10
2020	83,332	2,490	6	16	0.6%	14	34	1.4%	18
2021 2022 2023	84,093	2,515	5	21	0.8%	6	40	1.6%	19

	Plan	Participants	6	
Per In	stallation	Progra	m Total	
@ Meter	@ Generator	@ Meter	@ Generator	
197.00	210.79	1,182.00	1,264.74	
197.00	210.79	1,182.00	1,264.74	
19,700	20,724	118,200	124,346	
Note 1		Participants	6	
		Progra	m Total	
		@ Meter	@ Generator	For DSM For
		1,182.00	1,264.74	197.000
		1,182.00	1,264.74	197.000
		118,200	124,346	19,700
		33,358		
		3,769.4		
ng Reporting Perio	d (\$000):	5,394.3		
S . S		,		
ogram costs and to	otal participation			
	@ Meter 197.00 197.00 19,700 , Note 1	@ Meter @ Generator 197.00 210.79 197.00 210.79 197.00 20,724	@ Meter @ Generator @ Meter 197.00 210.79 1,182.00 197.00 20,724 118,200 19,700 20,724 118,200 Note 1 Participants @ Meter 1,182.00 118,200 118,200 33,358 3,769.4	@ Meter @ Generator 197.00 210.79 197.00 210.79 197.00 210.79 197.00 210.79 197.00 20,724 118,200 1,264.74 19,700 20,724 118,200 124,346 Participants 6 Program Total @ Meter @ Generator 1,182.00 1,264.74 1,182.00 124,346

Utility: Program N Program S		Tampa Electri VARIABLE FF November 202	REQUENCY DR	mand Side Man	-				
Reporting		Annual 2021							
а	b	с	d	е	f	g	h	i	j
Year 2015	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participatior Over (Under Projected Participants (h-e)
2013 2016 2017 2018 2019				Program was	started on Nov	ember 2, 2020			
2020	83,332	83,332	2	2	0.0%	0	0	0.0%	(2
2021 2022 2023 2024	84,093	84,093	2	2	0.0%	1	1	0.0%	(1
Summer k Vinter kW	emand and Ene W Reduction Reduction /h Reduction	rgy Savings - 2		Plan stallation @ Generator 18.85 18.85 296,500	Participants Program @ Meter 17.62 17.62 281,844	1 <u>@ Generator</u> 18.85 18.85 296,500			
Summer k Winter kW Annual kW	W Reduction		Per In @ Meter 17.62 17.62 281,844	stallation @ Generator 18.85 18.85	Program @ Meter 17.62 17.62 281,844 Participants Program	m Total @ Generator 18.85 18.85 296,500 1 m Total			
Summer k Winter kW Annual kW Annual De	W Reduction Reduction /h Reduction		Per In @ Meter 17.62 17.62 281,844	stallation @ Generator 18.85 18.85	Program @ Meter 17.62 17.62 281,844 Participants	m Total @ Generator 18.85 18.85 296,500 1			
Summer k Winter kW Annual kW Annual De Summer k Winter kW	W Reduction Reduction /h Reduction emand and Ene		Per In @ Meter 17.62 17.62 281,844	stallation @ Generator 18.85 18.85	Program @ Meter 17.62 17.62 281,844 Participants Program @ Meter	m Total @ Generator 18.85 18.85 296,500 1 m Total @ Generator			
Summer k Winter kW Annual kW Annual De Summer k Winter kW Annual kW Jtility Cost	W Reduction Reduction /h Reduction emand and Ene W Reduction	rgy Savings, No (\$):	Per In @ Meter 17.62 17.62 281,844	stallation @ Generator 18.85 18.85	Program @ Meter 17.62 17.62 281,844 Participants Program @ Meter 17.62 17.62	m Total @ Generator 18.85 18.85 296,500 1 m Total @ Generator 18.85 18.85 18.85			

			De	mand Side Man	agement Annua	al Report			
Jtility: ^D rogram Na Program St Reporting F	art Date:	Tampa Electri COMMERCIA March 2008 Annual 2020	c Company L WATER HEA	TING					
a Year 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	b Total Number of <u>Customers</u> 80,277 80,875 81,532 81,740 82,359 83,332 84,093	c Total Number of Eligible Customers 80,277 80,875 81,532 81,740 82,359 83,332 84,093	d Total Number of Projected Participants 1 1 3 3 1 0 0	e Projected Cumulative Number of Program Participants 1 2 5 8 9 9 9 9	f Projected Cumulative Penetration Level % [(e/c)x100] 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	g Actual Annual Number of Program Participants 0 0 0 0 0 0 0 0 0 0	h Actual Cumulative Number of Program Participants 0 0 0 0 0 0 0 0 0 0	i Actual Cumulative Penetration Level % [(h/c)x100] 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	j Actual Participation Over (Under Projected Participants (h-e) (1 (2 (5) (5) (5) (5) (5) (5)
Summer kV Ninter kW	mand and Ener V Reduction Reduction h Reduction	rgy Savings - 2		Plan stallation @ Generator 0.93 0.62 5,395	Participants Program @ Meter 0.00 0.00 0	0 <u>m Total</u> @ Generator 0.00 0.00 0			
Summer kV Vinter kW	mand and Ener V Reduction Reduction h Reduction	rgy Savings - C	ombined		Participants Program @ Meter 0.00 0.00 0	0 <u>m Total</u> <u>@ Generator</u> 0.00 0.00 0			
Jtility Cost Fotal Progr	per Installation am Cost of the s of Measures I	Utility (\$000):	Reporting Perio	d (\$000):	0 (0.0) 0.0				

TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: FEBRUARY 14, 2022 REVISED: APRIL 14, 2022

Comparison of Annual Achieved kW and kWh Reductions with Public Service Commission Established Goals Savings at the Generator

Utility: TAMPA ELECTRIC COMPANY

2023 2024

2023 2024

				Resid	lential					
	Win	ter Peak MW Red	duction	Sumr	Summer Peak MW Reduction			GWh Energy Reduction		
	Commission				Commission			Commission		
	Total	Approved	%	Total	Approved	%	Total	Approved	%	
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance	
2015	12.3	2.6	473.1%	10.8	1.1	981.8%	21.2	1.8	1,177.8%	
2016	7.7	4.1	187.8%	5.1	1.6	318.8%	13.2	3.5	377.1%	
2017	6.9	5.2	132.7%	4.7	2.2	213.6%	14.9	4.8	310.4%	
2018	8.0	6.5	123.0%	5.6	2.7	205.7%	17.1	6.1	280.3%	
2019	8.3	7.6	108.8%	5.7	3.1	184.5%	16.8	6.9	243.2%	
2020	3.5	7.6	45.5%	2.6	3.3	78.2%	8.9	7.4	120.3%	
2021	4.5	8.0	55.8%	6.4	3.3	194.2%	16.4	7.7	213.1%	
2022										

				Commerci	al/Industrial					
	Winter Peak MW Reduction				Summer Peak MW Reduction			GWh Energy Reduction		
	Commission				Commission			Commission		
	Total	Approved	%	Total	Approved	%	Total	Approved	%	
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance	
2015	8.1	1.2	675.0%	11.7	1.7	688.2%	12.5	3.9	320.5%	
2016	2.9	1.3	223.1%	4.4	2.5	176.0%	17.8	6.0	296.7%	
2017	9.2	1.6	575.0%	10.4	2.7	385.2%	30.2	8.0	377.5%	
2018	13.0	1.7	767.1%	15.0	3.3	453.6%	33.7	9.2	365.9%	
2019	22.4	1.6	1401.9%	29.2	3.3	885.9%	74.6	9.9	753.4%	
2020	10.4	1.7	612.5%	11.8	3.5	336.0%	26.1	10.3	253.3%	
2021	4.7	1.9	246.2%	5.6	3.6	156.8%	20.4	10.4	196.1%	
2022										

				Com	bined				
	Win	ter Peak MW Red	duction	Sumi	mer Peak MW Re	eduction	GW	h Energy Reduc	tion
		Commission			Commission		Commission		
	Total	Approved	%	Total	Approved	%	Total	Approved	%
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance
2015	20.4	3.8	536.8%	22.5	2.8	803.6%	33.7	5.7	591.2%
2016	10.6	5.4	196.3%	9.5	4.1	231.7%	31.0	9.5	326.3%
2017	16.1	6.8	236.8%	15.1	4.9	308.2%	45.1	12.8	352.3%
2018	21.0	8.2	256.5%	20.5	6.0	342.1%	50.8	15.3	331.8%
2019	30.7	9.2	333.7%	35.0	6.4	546.2%	91.4	16.8	543.9%
2020	13.9	9.3	149.1%	14.3	6.8	210.9%	35.0	17.7	197.7%
2021	9.1	9.9	92.3%	12.1	6.9	174.7%	36.8	18.1	203.3%
2022									
2023									
2024									

TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: FEBRUARY 14, 2022

Comparison of Cumulative Achieved kW and kWh Reductions with Public Service Commission Established Goals Savings at the Generator

Utility: TAMPA ELECTRIC COMPANY

2024

2023 2024

				Resid	dential					
	Winter Peak MW Reduction			Sumr	Summer Peak MW Reduction			GWh Energy Reduction		
	Commission				Commission			Commission		
	Total	Approved	%	Total	Approved	%	Total	Approved	%	
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance	
2015	12.3	2.6	473.1%	10.8	1.1	981.8%	21.2	1.8	1,177.8%	
2016	20.0	6.7	298.5%	15.9	2.7	588.9%	34.4	5.3	649.1%	
2017	26.9	11.9	226.1%	20.6	4.9	420.4%	49.3	10.1	488.1%	
2018	34.9	18.4	189.6%	26.2	7.6	344.1%	66.4	16.2	409.9%	
2019	43.2	26.0	166.0%	31.9	10.7	297.9%	83.2	23.1	360.1%	
2020	46.6	33.6	138.7%	34.5	14.0	246.1%	92.1	30.5	301.9%	
2021	51.1	41.6	122.8%	40.9	17.3	236.2%	108.5	38.2	284.0%	
2022										
2023										

				Commerci	al/Industrial					
	Win	ter Peak MW Red	duction	Sum	mer Peak MW Re	eduction	GV	Vh Energy Reduc	tion	
	Commission				Commission			Commission		
	Total	Approved	%	Total	Approved	%	Total	Approved	%	
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance	
2015	8.1	1.2	675.0%	11.7	1.7	688.2%	12.5	3.9	320.5%	
2016	11.0	2.5	440.0%	16.1	4.2	383.3%	30.3	9.9	306.1%	
2017	20.2	4.1	492.7%	26.5	6.9	384.1%	60.5	17.9	338.0%	
2018	33.2	5.8	573.1%	41.5	10.2	406.6%	94.2	27.1	347.5%	
2019	55.7	7.4	752.3%	70.7	13.5	523.7%	168.7	37.0	456.1%	
2020	66.1	9.1	726.2%	82.5	17.0	485.1%	194.8	47.3	411.9%	
2021	70.8	11.0	643.3%	88.1	20.6	427.7%	215.2	57.7	373.0%	
2022										

	Win	ter Peak MW Red	duction	Sumr	ner Peak MW Re	eduction	GW	ion	
		Commission		Commission			Commission		
	Total	Approved	%	Total	Approved	%	Total	Approved	%
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance
2015	20.4	3.8	536.8%	22.5	2.8	803.6%	33.7	5.7	591.2%
2016	31.0	9.2	337.0%	32.0	6.9	463.8%	64.7	15.2	425.7%
2017	47.1	16.0	294.4%	47.1	11.8	399.2%	109.8	28.0	392.1%
2018	68.1	24.2	281.6%	67.6	17.8	379.9%	160.6	43.3	370.8%
2019	98.8	33.4	295.9%	102.6	24.2	423.9%	251.9	60.1	419.2%
2020	112.7	42.7	263.9%	116.9	31.0	377.2%	286.9	77.8	368.8%
2021	121.8	52.6	231.6%	129.0	37.9	340.3%	323.7	95.9	337.6%
2022									
2023									
2024									

TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: FEBRUARY 14, 2022

Appendix "A"

Tampa Electric's 2021 Conservation related efforts toward the COVID Pandemic

Tampa Electric suspended non-essential operations with customers that require face-toface interactions (on-site) from January 1, 2021, to November 8, 2021. Tampa Electric, as in the majority of 2020, continued the many steps and efforts to mitigate the impacts to the company's Residential and Commercial/Industrial DSM programs and to provide customers special consideration during these challenging times. These steps and efforts are provided below:

Communication: Tampa Electric has proactively communicated with customers since the suspension of non-essential conservation operations which initially started on March 16, 2020. These communications include communicating to those customers wanting to participate in one or more of the company's DSM programs that have been affected by providing them specific information. These communications have also been targeted to the company's general body of customers by posting COVID messages and continuing to closely monitor and provide updates to customers. Below is an example of the pop-up message that was added to the company's website:

COVID-19 Update
For the safety of our customers, employees and contractors, we have temporarily stopped non-essential face-to-face and in-home interactions until further notice. This includes duct seal and ceiling insulation work performed by our approved contractors. You may still submit rebate requests. We will update this message as we continue to monitor COVID-19.
If you would like to be placed on our waiting list to receive energy-efficiency services when we return to normal operations, please call us at (813) 275-3909 on weekdays from 8 a.m. to 5 p.m. Thank you for your patience and providing us the opportunity to serve your energy needs.
Close

Tampa Electric continued to promote non-customer contact programs via paid advertising channels including television, radio and online. The company also leveraged social owned channels including social media platforms, bill communications, website, direct mail and email to promote the company's DSM programs during these challenging times.

Tampa Electric's Energy Management Services ("EMS") staff and contractors were kept informed of specific process changes that allowed for continued participation in some of

the company's COVID impacted DSM programs. This included continuing to allow extensions of insulation certificates and duct repair letters and also allowing customers to provide pictures of their qualifying energy efficient equipment install as an upload to their online rebate application.

Waiting Lists: Tampa Electric continued placing customers on wait lists, for customers wanting to participate in one or more of the company's DSM programs that was either fully suspended or had the on-site visit portion of the DSM program suspended. All customers awaiting a residential or commercial energy audit continued to be offered or have had an initial phone or virtual energy audit performed. The numbers below provide the number of customers that were on the applicable waitlist for the affected DSM Program as of November 7, 2021:

- Attic Inspections: 126
- Residential Energy Audits: 1,807
- Neighborhood Weatherization: 1,989
- Energy Planner:
 - Program equipment/removals: 178
 - Trouble maintenance: 342
 - New program installs: 1,077
- Commercial Energy Audits: 292

Waiting List Follow-up: Since resuming normal field operations on November 8, 2021, Tampa Electric initiated contacting all the customers on the wait lists to schedule the field portion of the DSM Program. The numbers below provide the number of customers that remain on the applicable waitlist for the affected DSM Program as of December 31, 2021:

- Attic Inspections: 89
- Residential Energy Audits: 299
- Neighborhood Weatherization: 1,222
- Energy Planner:
 - Program equipment/removals: 3
 - Trouble maintenance: 225
 - New program installs: 1,132
- Commercial Energy Audits: 126

DSM Program Facilitation: Tampa Electric continued to provide additional levels of assistance to customers during the pandemic, the company continued the emphasis on the Phone, Online and Virtual audit offerings for residential customers and Phone audit offerings for Commercial/Industrial customers.

Tampa Electric continued the messaging promoting the Online Energy Audit through the company's customer experience portal which promotes the DSM program. When customers enter the portal and login, a popup message appears asking if they are interested in completing an Online Energy Audit which allows them to select and perform the energy audit.

The company has continued to receive and process applications for DSM programs not requiring customer interaction in which these DSM programs have not experienced any measurable impact from COVID pandemic. The company continued to provide flexibility with normal application deadlines, while adhering to all the current Commission approved DSM Standards, to accommodate customers unable to utilize the original verification process or to allow for project extensions on the rebate process due to hardship, COVID restrictions or financial burdens. Tampa Electric's EMS Team members will review the project(s) and will extend the approval certificate date where applicable.

Tampa Electric continued to allow for a different facilitation process to achieve verifications by allowing customers to provide "after installed" pictures of the install as an upload to their online rebate application.

Tampa Electric's Weatherization program continued mailing the comprehensive energyefficiency kits to participating customers advising them to install what they were comfortable with installing and the remaining items would be installed by Tampa Electric when normal business operations resume. This continued to afford customers to start taking advantage of some energy savings now until the remaining portion of the kit is installed, and the other program measures can be performed (Walk-through energy audit, insulation and duct repair if needed).

Tampa Electric's CEMT continued to offer an online electronic signature tool which allows for customers to sign the necessary legally binding documentation to participate in one of the company's load management and demand response DSM programs.

Appendix "B"

Tampa Electric's 2021 Research and Development and Pilot Program Update

Home Energy Management System – Final Report:

Summary:

Tampa Electric conducted the "Home Energy Monitoring System" ("HEM") from May 2019 through November 2021. For the two-year period, participants showed an overall reduction in energy usage of 2.5 percent for a typical home. For the participants in the study, this 2.5 percent results in an annual energy reduction of 641 kWh, a summer demand reduction of 0.08 kW and a winter demand reduction of 0.10 kW. Utilizing these values, results in the following cost-effectiveness test scores:

Rate Impact Measure:	0.93
Total Resource Cost Test:	0.30
Participants Cost Test:	-53

At this time, Tampa Electric is not intending to petition for this R&D project to become a formal DSM program. The company will continue to monitor this technology and will include this technology in the next Residential Measure List in preparations for the 2025 – 2034 DSM Goal Setting.

Project Detail:

Tampa Electric initiated the Residential R&D project "Home Energy Monitoring System" ("HEM") in 2019 to determine the potential energy and demand savings available, including capturing any other benefits or concerns customers would experience from this type of technology. Based upon the literature of the vendors the company was exploring to utilize, the project was also geared to provide a more accurate understanding of the home energy monitor space, specifically how providing customers with real time disaggregated load data would impact their energy usage decisions. In addition, this technology was of particular interest due to the most recent technical potential study that was conducted to support the most recent DSM Goals development did not include this technology in the residential customer measures list.

To facilitate this project, the company chose to utilize internal employees that would volunteer to have the equipment installed in their breaker panels and then utilize the technology and software over the two-year study period. The vendor chosen uses a device that contains current and voltage transformers that are installed on certain dedicated circuits within in a customer's circuit breaker panel. The device measures split phase voltage, total current, and the current of the circuits selected. These devices communicate the energy usage data to a customer's wireless router and stored on the vendor's servers. The data is obtained for viewing by a customer by logging into the vendor's provided web-based portal, as well as via a mobile app if desired. Since the technology required having equipment installed in a customer's breaker panel, this installation requires an electrical inspection by local municipal inspection offices.

To gain the participating internal employees for this project, in May 2019, a message was sent to all internal team members specifying certain technical requirements and asked if they were interested in participating to contact the Energy Management Services ("EMS") Department. From this messaging, 35 team members responded that they were interested in being part of the project. To screen these participants to ensure they would be able to participate, the company developed a survey to outline the required expectations and provided the complete list of technical requirements for participation for the project. Of the initial 35 team members, 26 team members met the requirements to proceed.

The company in July 2019, met with county and municipal inspection offices to present the home energy monitor solution selected to determine the complete permitting and inspection requirements in each locality that the devices would be installed.

To ensure that the 26 team members would be able to participate, in September 2019, each of their homes were verified (breaker panel and wireless communication ability) with an electrical contractor that would determine eligibility for the home energy monitor solutions. 24 of the 26 inspected team members homes were determined to be eligible to proceed with permitting and installation. The company developed internal participation agreements to ensure that the required expectations and outcomes from this project would be met and were distributed to participants who were cleared to proceed.

The company began installations of the technology in November 2019 with the final installation being installed and February 2020.

The study period for participants ran until November 2021, after this time the company gathered feedback from all participants and device removals were scheduled. In addition, the company's internal Load Forecasting Department was notified that the project had concluded, and they could extract the meter data for each of the participants homes to perform the energy and measurement verification analysis.

Project Findings:

- 1. Of the HEM project participants surveyed, 33 percent responded that the HEM influenced their usage of energy or appliances in their home. Additionally, 14 percent of participants responded that the HEM data influenced their decision to purchase or replace appliances, as well as 14 percent indicating that it influenced their decision to purchase other smart home products. Only 5 percent of the participants responded that the HEM data influenced their decision to purchase or consider the purchase of energy saving home improvements.
- 2. When evaluating HEM pilot project participants against a control group over the pilot project time period of April 2020 to September 2021, both groups used more electricity than the prior period of April 2018 to September 2019. There were two major contributors to the increase in usage. The pilot time period included more

heating and cooling degree days than the prior usage period. Additionally, the pilot occurred during the COVID pandemic when more people were working from home than during the prior period.

- 3. Comparing the consumption during the previous usage period to the HEM pilot period, the project participants' consumption change was greater than that of the control group. The participant group had a mean annual usage increase of 13.42 percent when compared to the control group increase of 5.61 percent, which would show no energy savings from the HEM. However, when eliminating several participants that had unusual usage patterns, the remaining project participants' usage changed by less than the control group with participants having a mean annual usage increase of 2.26 percent as compared to the control group's 4.73 percent using the same parameters, showing an energy savings from the HEM project.
- 4. One of the strengths of the HEM is that the installation is contained at the breaker panel. This meant that the participants didn't require additional equipment at individual appliances throughout the residence, and installation could be performed with minimal need for participant interaction. The installation required that the participant keep a broadband internet connection to transmit the usage data, and the ability to connect the HEM device either directly or via a Wi-Fi connection. Keeping the device connected was a challenge for some participants and limited their ability to collect and review their usage data. Regular efforts were made to help these participants keep their devices connected to maximize their experience with the HEM.
- 5. Several commercial off the shelf home energy monitor solutions were evaluated before selecting the final vendor. The vendor selected records 1 second interval usage data and retains that data for 30 days. After 30 days, the data reverts to 1 minute interval data, and to daily interval data after 6 months. Participants surveyed indicated that 14 percent would like to see 6 months of detailed usage data, 52 percent indicated they would like 1 year of detailed usage data, and 33 percent indicated they would like more than one year of detailed usage data. When surveyed about the value of the history feature in its implemented state, it received a rating of 2.71 out of a possible 5.
- 6. The centralized installation approach also had some draw backs that limited participation. The vendor chosen has an ingress protection rating of IPX0, meaning that it is not rated for any environment in which there is moisture present. This prevented the solution from being deployed at residences where the electrical panel was located outdoors. Additionally, the HEM was not able to support residential installations with multiple electrical breaker panels if they are not in close proximity with a pass through. This excluded some large residences or residences with constructed additions that utilize multiple breaker panels that could not be directly measured. One of the project participants was forced to drop out

of the project due to the installation of solar panels that fed into a separate panel that could not be measured by the HEM.

7. One of the biggest weaknesses observed of the HEM pilot project was the inability to disaggregate and display appliance usage data. Many of the participant comments focused on the systems inability to discover large load sources within the home, with 67 percent of participants responding that the HEM was unable to identify appliances correctly in the home. The largest load sources, such as HVAC systems, were configured at installation to be measured directly with current transformers and were presented accurately to participants. Other load sources not directly measured required the systems disaggregation algorithm to discover these appliances and were found to be far less accurate. Large load sources such as water heaters, washers, dryers, and dishwashers were often reported as missing, or reporting incorrectly. The presentment of this data in the mobile app and in the web-portal scored marginally with participants rating the value of the graphs with an average score of 3.19 out of 5. Participants also rated how the usage data correlated with their bill and 62 percent found that the estimated spending feature in the HEM did not track closely with their billing data and rated the value of the feature at 2.29 out of a possible 5. However, 86 percent of participants responded that they would be interested in another HEM product, with 38 percent specifically commenting that more detailed usage information would better tailor the experience to them.

Integrated Renewable Energy System – Pilot Program – Update:

The Integrated Renewable Energy System – Pilot Program has been constructed at Tampa Electric's Eastern Service Area and is currently being commissioned to ensure it is fully operational. The final system consists of 862 kW photovoltaic system located on five carports, five commercial-sized powerpack batteries capable of storing 1,160 kWh of energy, six dual headed level "2" electric vehicle charging systems, and 10 industrial truck battery charging stations. This pilot program has three main purposes: the first is to evaluate the ability to maximize the demand side management benefits from this integrated system, second is to determine the ideal operating parameters that a commercial or industrial customer would operate this type of system, and third, 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.

Lessons Learned during construction and commissioning:

Tampa Electric has gained valuable information regarding the integrated renewable energy system, here are many of the lessons learned for installing this type of system:

- 1. Facility engineers and anyone assigned to the system, needs to be involved from the beginning
- 2. Facility engineers and those on the project team should understand the organizations business to elevate issues ahead of time and also provides for a knowledge basis for issue resolution
- 3. Facility engineers and those on the project team should be involved in the development of how the system will operate, including how will the system operate during various conditions (such as what is backed up by batteries, how the batteries are charged, what is the source of power for the electrical vehicle/industrial truck charging)
- 4. Before selecting or sizing any components, identify subsurface ground conditions that will support the integrated renewable system installation/foundation
- 5. Understand the impact and additional cost of foundations to support the integrated renewable system structure
- 6. Understanding the water table, the site is constructed on, and other unforeseen conditions
- 7. Understand the placement of the system to minimize any shading may require the removal of other structures or trees. In addition, understand tree removal ordinances or requirements that may require prior approval along with requirements to plant replacement trees and/or vegetation
- 8. Understand that additional costs may be required to repave, replant after the site installation and disruption
- 9. Ensure that commissioning of the integrated system should be budgeted for as the systems need to operate as a single system versus separate parts
- 10. Prior to vendor selection, obtain the vendors safety protocols for each part of the integrated renewable energy system
- 11. Understand the requirements for interconnection with the organizations electrical system and any requirements by the local utility
- 12. Understand how the integrated renewable system will be protected from either internal or external system faults or other adverse impacts.
- 13. Understand the system should have automated protection devices including a manual disconnect switch and associated processes
- 14. Document and communicate any disconnect or emergency procedures prior to the initial energization of the integrated renewable system
- 15. Consider how electrical systems attached to the integrated renewable system as electrically fed. For example for a car parking canopy, under canopy lighting should be powered from the batteries if grid power is lost
- 16. Understand the organizations IT cyber security protocols and the cyber security protocols of all control systems utilized in the integrated renewable systems
- 17. Utilize a risk analysis method to rank vendors prior to selection on what aspects of their renewable system do they retain control on, or transfer control of to the organization
- 18. Understand what additional communication control systems, or subsystems maybe required to control portions of the integrated renewables system
- 19. Have the system evaluated for its communications architecture in order to develop the proper integration design.

Appendix "C"

DSM Energy Education and Awareness Activities of 2021

Tampa Electric participated in over eight (8) designated energy education and awareness events across the company's service area in 2021. These events do not include the daily interactions of energy education that Tampa Electric Team Members have with customers through email, phone calls, or one-on-one discussions nor with customers that are participating in one of Tampa Electric's Commission approved DSM programs. These events cover educating all ages, income classes and rate classes of customers on energy education and awareness. Several highlighted events include:

 Tampa Housing Authority 	2/23/2021
 Tampa Housing Authority 	3/23/2021
 Tampa Housing Authority 	4/27/2021
 Tampa Housing Authority 	5/23/2021
 Tampa Housing Authority 	6/29/2021
 Tampa Housing Authority 	7/27/2021
Great American Teach In	11/16/2021
 Tampa Bay Buccaneers Christmas Celebration 	12/20/2021

Appendix "D"

Tampa Electric's 2021 Energy Audits Performed by Energy Audit Type

The table below provides the additional detail of "audit information by type" for the Energy Audits performed by Tampa Electric in 2021.

Tampa Electric's 2021 Energy Audits Performed by Energy Audit Type								
	Walk-Through, BERS, and Computer AssistedOnlinePhoneTotal							
Residential	1,035	68,540	819	70,394				
Walk-Through and Comprehensive								
Commercial	101	N/A	105	206				