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March 1, 2019

VIA: ELECTRONIC MAIL

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

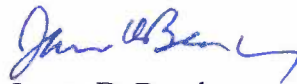
Re: Tampa Electric Company's Summary of 2018 DSM Program Accomplishments

Dear Mr. Shafer:

Enclosed for filing is Tampa Electric Company's Summary of 2018 Demand Side Management Program Accomplishments, including an Appendix A (DSM Energy Education and Awareness Activities of 2018).

Thank you for your assistance in connection with this matter.

Sincerely,



James D. Beasley

JDB/pp
Enclosure

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



TECO[®]
TAMPA ELECTRIC
AN EMERA COMPANY

2018

**DEMAND SIDE MANAGEMENT PROGRAM
ACCOMPLISHMENTS**

FILED: March 1, 2019

**TAMPA ELECTRIC COMPANY - SUMMARY OF 2018
 DEMAND SIDE MANAGEMENT PROGRAM ACCOMPLISHMENTS**

Tampa Electric received approval of its 2015-2024 Demand Side Management (“DSM”) goals in Docket No. 130201-EI, Order No. PSC-14-0696-FOF-EU, issued December 16, 2014. The company received approval of its 2015-2024 DSM Plan on August 11, 2015 in Docket No. 150081-EG, Order No. PSC-15-0323-PAA-EG. Tampa Electric transitioned to the DSM programs within the 2015-2024 DSM Plan on November 3, 2015 pursuant to receiving final approval of the supporting DSM standards on September 24, 2015.

For 2018, Tampa Electric achieved all the annual and cumulative residential, commercial/industrial (“Comm/Ind”) and combined DSM goals. The company achieved the following summer demand (“SkW”), winter demand (“WkW”) and annual energy (“AE”) reductions identified at the generator:

<u>2018 Residential Goals</u>		<u>Actual Residential DSM Achieved</u>	
SkW:	2.7 MW	SkW:	5.6 MW
WkW:	6.5 MW	WkW:	8.0 MW
AE:	6.1 GWh	AE:	17.1 GWh

<u>2018 Comm/Ind Goals</u>		<u>Actual Comm/Ind DSM Achieved</u>	
SkW:	3.3 MW	SkW:	15.0 MW
WkW:	1.7 MW	WkW:	13.0 MW
AE:	9.2 GWh	AE:	33.7 GWh

<u>2018 Combined Goals</u>		<u>Actual Combined DSM Achieved</u>	
SkW:	6.0 MW	SkW:	20.5 MW
WkW:	8.2 MW	WkW:	21.0 MW
AE:	15.3 GWh	AE:	50.8 GWh

In 2018, Tampa Electric also received approval for and initiated the new Street and Outdoor Lighting conversion program. During 2018, the company converted 31,936 street and outdoor lighting luminaires to Light Emitting Diode (“LED”) technology. 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 demand and annual energy savings at the generator:

SkW:	0.00 MW
WkW:	4.247 MW
AE:	18.395 GWh

In 2018, the company also continued to make progress with Research and Development (“R&D”) efforts with battery storage and finalized the commercial low-income weatherization analysis. In addition, Tampa Electric continued collaborating with the other FEECA utilities in the development of the Technical Potential which will be used as the basis for the next set of goals the company’s petitions the Commission for approval in 2019. A summary of 2018 energy education and awareness activities is

included as an appendix to this report. The R&D report for commercial low-income weatherization is also included as an appendix to this report.

For 2019, Tampa Electric remains committed to offering DSM programs that advance the policy objectives of FEECA, are directly monitorable and 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 achieved its annual residential, commercial and combined DSM goals as described in Rule 25-17, (4), Florida Administrative Code.

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL ALTERNATE AUDIT (aka Walk-Thru Audit or EA Free)
 Program Start Date: May 1981
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	628,392	8,400	6,000	1.0%	8,304	8,304	1.3%	2,304
2016	640,090	640,090	8,400	12,000	1.9%	6,902	15,206	2.4%	3,206
2017	651,770	651,770	7,800	18,000	2.8%	5,501	20,707	3.2%	2,707
2018	662,917	662,917	6,000	24,000	3.6%	7,667	28,374	4.3%	4,374
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.07	0.08	536.69	575.87
Winter kW Reduction	0.08	0.09	621.03	666.36
Annual kWh Reduction	395	417	3,028,465	3,198,059

Utility Cost per Installation (\$): 246
 Total Program Cost of the Utility (\$000): 1,888.2
 Net Benefits of Measures Installed During Reporting Period (\$000): (1,907.0)
 Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL CUSTOMER ASSISTED AUDITS
 Program Start Date: June 1996
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	628,392	1,390	500	0.1%	658	658	0.1%	158
2016	640,090	640,090	1,200	1,000	0.2%	1,017	1,675	0.3%	675
2017	651,770	651,770	500	1,500	0.2%	409	2,084	0.3%	584
2018	662,917	662,917	800	2,000	0.3%	27,734	29,818	4.5%	27818
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1		Participants 27,734	
		Program Total	
		@ Meter	@ Generator
Summer kW Reduction	0.05	0.06	1,469.90
Winter kW Reduction	0.06	0.07	1,691.77
Annual kWh Reduction	296	313	8,209,264
			8,668,983

Utility Cost per Installation (\$): 14
 Total Program Cost of the Utility (\$000): 398.0
 Net Benefits of Measures Installed During Reporting Period (\$000): 864.7
 Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL RCS AUDIT (Computer Assisted - Paid)
 Program Start Date: January 1981
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	628,392	0	1	0.0%	5	5	0.0%	4
2016	640,090	640,090	4	2	0.0%	9	14	0.0%	12
2017	651,770	651,770	10	3	0.0%	4	18	0.0%	15
2018	662,917	662,917	10	4	0.0%	2	20	0.0%	16
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Participants Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.07	0.08	0.14	0.15
Winter kW Reduction	0.08	0.09	0.16	0.17
Annual kWh Reduction	395	417	790	834

Utility Cost per Installation (\$): 824
 Total Program Cost of the Utility (\$000): 1.6
 Net Benefits of Measures Installed During Reporting Period (\$000): (5.0)
 Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL CEILING INSULATION
 Program Start Date: November 1982
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	494,802	7,200	1,000	0.2%	3,057	3,057	0.6%	2,057
2016	640,090	491,745	2,760	2,000	0.4%	1,293	4,350	0.9%	2,350
2017	651,770	490,452	1,255	3,000	0.6%	945	5,295	1.1%	2,295
2018	662,917	489,507	1,300	4,000	0.8%	594	5,889	1.2%	1,889
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants 594 Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	0.26	0.28	153.85
Winter kW Reduction	0.37	0.40	220.97	237.10
Annual kWh Reduction	848	895	503,712	531,920

Utility Cost per Installation (\$): 367
 Total Program Cost of the Utility (\$000): 217.9
 Net Benefits of Measures Installed During Reporting Period (\$000): 518.2

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL DUCT REPAIR
 Program Start Date: September 1992
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	480,750	1,680	750	1.9%	1,895	1,895	0.8%	1,145
2016	640,090	478,855	2,040	1,500	1.9%	1,293	3,188	0.8%	1,688
2017	651,770	477,562	1,530	2,250	1.9%	1,176	4,364	0.8%	2,114
2018	662,917	476,386	1,300	3,000	1.9%	1,997	6,361	0.8%	3,361
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.17	0.18	341.49	366.42
Winter kW Reduction	0.22	0.23	433.35	464.98
Annual kWh Reduction	298	315	595,106	628,432

Utility Cost per Installation (\$): 178
 Total Program Cost of the Utility (\$000): 356.2
 Net Benefits of Measures Installed During Reporting Period (\$000): 275.6

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Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL ELECTRONICALLY COMMUTATED MOTORS
 Program Start Date: November 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	628,392	0	5	0.0%	4	4	0.0%	(1)
2016	640,090	640,090	0	15	0.0%	0	4	0.0%	(11)
2017	651,770	651,770	0	35	0.0%	0	4	0.0%	(31)
2018	662,917	662,917	0	70	0.0%	0	4	0.0%	(66)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants	
			Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.15	0.16	0.00	0.00
Winter kW Reduction	0.14	0.15	0.00	0.00
Annual kWh Reduction	388	410	0	0

Utility Cost per Installation (\$): 0
 Total Program Cost of the Utility (\$000): 0.0
 Net Benefits of Measures Installed During Reporting Period (\$000): 0.1

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: ENERGY EDUCATION, AWARENESS AND AGENCY OUTREACH
 Program Start Date: May 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	628,392	2,000	500	0.1%	1,412	1,412	0.2%	912
2016	640,090	640,090	2,000	1,000	0.2%	461	1,873	0.3%	873
2017	651,770	651,770	500	1,500	0.2%	975	2,848	0.4%	1,348
2018	662,917	662,917	750	2,000	0.3%	806	3,654	0.6%	1,654
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants	
			806	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.03	0.03	21.76	23.35
Winter kW Reduction	0.05	0.05	39.49	42.38
Annual kWh Reduction	377	398	303,862	320,878

Utility Cost per Installation (\$): 153
 Total Program Cost of the Utility (\$000): 123.5
 Net Benefits of Measures Installed During Reporting Period (\$000): (95.0)

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: ENERGY STAR for NEW MULTI-FAMILY RESIDENCES
 Program Start Date: June 2017
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
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	600	10.1%	0	0	0.0%	(600)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	0.36	0.39	0.00
Winter kW Reduction	0.24	0.26	0.00	0.00
Annual kWh Reduction	1,239	1,308	0	0

Utility Cost per Installation (\$): 0
 Total Program Cost of the Utility (\$000): 1.2
 Net Benefits of Measures Installed During Reporting Period (\$000): 0.0

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: ENERGY STAR for NEW HOMES (formerly RESIDENTIAL NEW CONSTRUCTION)
 Program Start Date: Closed New Construction and opened ENERGY STAR November 2015
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	4,361	2,400	100	2.3%	2,494	2,494	57.2%	2,394
2016	640,090	3,870	1,200	300	7.8%	403	2,897	74.9%	2,597
2017	651,770	2,953	1,000	550	18.6%	640	3,537	119.8%	2,987
2018	662,917	9,544	1,000	800	8.4%	823	4,360	45.7%	3,560
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants	
			823	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.53	0.57	437.01	468.91
Winter kW Reduction	0.49	0.53	403.27	432.71
Annual kWh Reduction	2,489	2,628	2,048,447	2,163,160

Utility Cost per Installation (\$): 892
 Total Program Cost of the Utility (\$000): 734.4
 Net Benefits of Measures Installed During Reporting Period (\$000): 496.0

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL HEATING AND COOLING
 Program Start Date: July 2000
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	628,392	3,840	1,000	0.2%	5,214	5,214	1.0%	4,214
2016	640,090	640,090	3,480	2,000	0.3%	3,693	8,907	1.0%	6,907
2017	651,770	651,770	4,200	2,950	0.5%	3,341	12,248	1.0%	9,298
2018	662,917	662,917	4,000	3,850	0.6%	3,371	15,619	1.0%	11,769
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.10	0.11	343.84	368.94
Winter kW Reduction	0.33	0.36	1,122.54	1,204.49
Annual kWh Reduction	371	392	1,250,641	1,320,677

Utility Cost per Installation (\$): 162
 Total Program Cost of the Utility (\$000): 544.9
 Net Benefits of Measures Installed During Reporting Period (\$000): 1,298.2

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: NEIGHBORHOOD WEATHERIZATION
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	109,703	6,600	5,000	4.6%	7,912	7,912	7.2%	2,912
2016	640,090	111,745	7,250	10,750	9.6%	5,495	13,407	12.0%	2,657
2017	651,770	113,784	6,250	17,000	14.9%	6,550	19,957	17.5%	2,957
2018	662,917	115,730	7,000	23,750	20.5%	7,389	27,346	23.6%	3,596
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants	
			7,389	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.25	0.26	1,810.31	1,942.46
Winter kW Reduction	0.34	0.36	2,504.87	2,687.73
Annual kWh Reduction	1,255	1,325	9,273,195	9,792,494

Utility Cost per Installation (\$): 574
 Total Program Cost of the Utility (\$000): 4,237.9
 Net Benefits of Measures Installed During Reporting Period (\$000): (6,643.6)

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: ENERGY PLANNER
 Program Start Date: September 2007
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
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									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	2.01	2.16	1,502.96	1,612.68
Winter kW Reduction	3.13	3.36	2,341.10	2,512.00
Annual kWh Reduction	242	256	180,774	190,897

Utility Cost per Installation (\$) Note 1: 4,748
 Total Program Cost of the Utility (\$000): 3,546.9
 Net Benefits of Measures Installed During Reporting Period (\$000): 8,779.6
 Note 1: Utility costs based upon total program costs and total participation

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL WALL INSULATION
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	628,329	20	28	0.0%	122	122	0.0%	94
2016	640,090	639,905	12	56	0.0%	5	127	0.0%	71
2017	651,770	651,580	7	84	0.0%	5	132	0.0%	48
2018	662,917	662,722	10	112	0.0%	2	134	0.0%	22
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	0.10	0.11	0.21
Winter kW Reduction	0.23	0.24	0.45	0.48
Annual kWh Reduction	399	421	798	843

Utility Cost per Installation (\$): 156
 Total Program Cost of the Utility (\$000): 0.3
 Net Benefits of Measures Installed During Reporting Period (\$000): 1.2

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL WINDOW REPLACEMENT
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	619,895	1,608	500	0.1%	1,811	1,811	0.3%	1,311
2016	640,090	629,783	1,584	1,000	0.2%	1,417	3,228	0.5%	2,228
2017	651,770	640,046	1,800	1,500	0.2%	1,482	4,710	0.7%	3,210
2018	662,917	649,710	1,600	2,000	0.3%	1,817	6,527	1.0%	4,527
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants 1,817 Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	0.31	0.33	565.09
Winter kW Reduction	0.21	0.23	385.20	413.32
Annual kWh Reduction	1,121	1,184	2,036,857	2,150,921

Utility Cost per Installation (\$): 442
 Total Program Cost of the Utility (\$000): 803.5
 Net Benefits of Measures Installed During Reporting Period (\$000): 1,918.9

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL WINDOW FILM
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	625,431	324	1,200	0.2%	379	379	0.1%	(821)
2016				Program was retired on November 3, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants 0 Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL HVAC RE-COMMISSIONING
 Program Start Date: November 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	627,437	180	7,500	1.2%	138	138	0.0%	(7,362)
2016				Program was retired on November 3, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: FREE COMMERCIAL/INDUSTRIAL AUDIT
 Program Start Date: July 1983
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	888	700	0.9%	913	913	1.1%	213
2016	80,875	80,875	860	1,400	1.7%	764	1,677	2.1%	277
2017	81,532	81,532	870	2,150	2.6%	1,211	2,888	3.5%	738
2018	81,740	81,740	1,200	2,950	3.6%	797	3,685	4.5%	735
2019									
2020									
2021									
2022									
2023									
2024									

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	0.09	0.10	74.12
Winter kW Reduction	0.09	0.10	74.92	80.16
Annual kWh Reduction	817	859	651,149	685,009

Utility Cost per Installation (\$): 356
 Total Program Cost of the Utility (\$000): 283.6
 Net Benefits of Measures Installed During Reporting Period (\$000): (189.9)
 Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMPREHENSIVE COMMERCIAL/INDUSTRIAL AUDIT
 Program Start Date: May 1981
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	6	4	0.0%	1	1	0.0%	(3)
2016	80,875	80,875	10	8	0.0%	4	5	0.0%	(3)
2017	81,532	81,532	8	12	0.0%	0	5	0.0%	(7)
2018	81,740	81,740	4	16	0.0%	1	6	0.0%	(10)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	0.09	0.10	0.09
Winter kW Reduction	0.09	0.10	0.09	0.10
Annual kWh Reduction	817	859	817	859

Utility Cost per Installation (\$): 725
 Total Program Cost of the Utility (\$000): 0.7
 Net Benefits of Measures Installed During Reporting Period (\$000): (3.0)
 Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL CEILING INSULATION
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,026	57	50	0.1%	41	41	0.1%	(9)
2016	80,875	79,985	50	100	0.1%	14	55	0.1%	(45)
2017	81,532	79,971	15	150	0.2%	5	60	0.1%	(90)
2018	81,740	79,966	8	200	0.3%	8	68	0.1%	(132)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.28	0.30	2.26	2.42
Winter kW Reduction	0.01	0.01	0.06	0.06
Annual kWh Reduction	2,661	2,799	21,288	22,395

Participants 8

Utility Cost per Installation (\$): 1,110
 Total Program Cost of the Utility (\$000): 8.9
 Net Benefits of Measures Installed During Reporting Period (\$000): 50.7
 Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL CHILLERS
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	7,733	10	5	0.1%	7	7	0.1%	2
2016	80,875	8,851	10	10	0.1%	5	12	0.1%	2
2017	81,532	8,887	11	15	0.2%	7	19	0.2%	4
2018	81,740	9,023	8	20	0.2%	1	20	0.2%	0
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	8.54	9.13	8.54	9.13
Winter kW Reduction	6.40	6.85	6.40	6.85
Annual kWh Reduction	16,354	17,204	16,354	17,204

Utility Cost per Installation (\$): 1,487
 Total Program Cost of the Utility (\$000): 1.5
 Net Benefits of Measures Installed During Reporting Period (\$000): 49.0
 Note 1: Savings from measured data

22

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: CONSERVATION VALUE
 Program Start Date: April 1991
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	4	2	0.0%	4	4	0.0%	2
2016	80,875	80,875	4	4	0.0%	2	6	0.0%	2
2017	81,532	81,532	3	6	0.0%	0	6	0.0%	0
2018	81,740	81,740	2	8	0.0%	0	6	0.0%	(2)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Program 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

Utility Cost per Installation (\$): 0
 Total Program Cost of the Utility (\$000): 0.0
 Net Benefits of Measures Installed During Reporting Period (\$000): 199.5
 Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL COOL ROOF
 Program Start Date: May 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,128	35	20	0.0%	45	45	0.1%	25
2016	80,875	80,681	25	40	0.0%	25	70	0.1%	30
2017	81,532	81,313	25	60	0.1%	13	83	0.1%	23
2018	81,740	81,508	20	80	0.1%	21	104	0.1%	24
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1				Participants 21	
	Per Installation		Program Total		
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	13.18	14.10	276.80	296.18	
Winter kW Reduction	0.00	0.00	0.00	0.00	
Annual kWh Reduction	41,977	44,160	881,517	927,356	

Utility Cost per Installation (\$): 9,550
 Total Program Cost of the Utility (\$000): 200.5
 Net Benefits of Measures Installed During Reporting Period (\$000): 89.7
 Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL COOLING - DX
 Program Start Date: July 2000
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	127	100	0.1%	234	234	0.3%	134
2016	80,875	80,875	130	200	0.2%	9	243	0.3%	43
2017	81,532	81,532	16	300	0.4%	0	243	0.3%	(57)
2018	81,740	81,740	5	400	0.5%	25	268	0.3%	(132)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	3.34	3.57	83.48	89.32
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	6,107	6,425	152,675	160,614

Participants 25

Utility Cost per Installation (\$): 211
 Total Program Cost of the Utility (\$000): 5.3
 Net Benefits of Measures Installed During Reporting Period (\$000): 8.7
 Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL COOLING - PTAC
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	18	35	0.0%	0	0	0.0%	(35)
2016			This portion of Commercial Cooling was retired on November 3, 2015.						
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL DEMAND RESPONSE
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
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									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Participants Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	1,645.00	1,760.15	1,645.00
Winter kW Reduction	1,645.00	1,760.15	1,645.00	1,760.15
Annual kWh Reduction	123,375	129,791	123,375	129,791

Utility Cost per Installation (\$), Note 2: 39,716
 Total Program Cost of the Utility (\$000): 3,931.9
 Net Benefits of Measures Installed During Reporting Period (\$000): 1,191.3
 Note 1: Savings from measured data
 Note 2: Utility costs based upon total program costs and total participation

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL DUCT REPAIR
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	70,369	550	250	0.4%	257	257	0.4%	7
2016	80,875	70,112	300	500	0.7%	96	353	0.5%	(147)
2017	81,532	70,016	130	750	1.1%	3	356	0.5%	(394)
2018	81,740	70,013	25	1,000	1.4%	6	362	0.5%	(638)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	1.55	1.66	9.31
Winter kW Reduction	0.02	0.02	0.10	0.10
Annual kWh Reduction	6,862	7,219	41,172	43,313

Utility Cost per Installation (\$): 186
 Total Program Cost of the Utility (\$000): 1.1
 Net Benefits of Measures Installed During Reporting Period (\$000): 361.3
 Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL ELECTRONICALLY COMMUTATED MOTORS
 Program Start Date: November 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	10	5	0.0%	85	85	0.1%	80
2016	80,875	80,875	10	10	0.0%	1,225	1,310	1.6%	1,300
2017	81,532	81,532	20	15	0.0%	202	1,512	1.9%	1,497
2018	81,740	81,740	200	20	0.0%	0	1,512	1.8%	1,492
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.24	0.25	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	32	34	0	0

Utility Cost per Installation (\$): 0
 Total Program Cost of the Utility (\$000): 0.0
 Net Benefits of Measures Installed During Reporting Period (\$000): 378.0
 Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: INDUSTRIAL LOAD MANAGEMENT
 Program Start Date: September 1999
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	79,457	820	0	1	0.1%	1	1	0.1%	0
2016	80,875	848	0	2	0.2%	0	1	0.1%	(1)
2017	81,532	816	0	3	0.4%	0	1	0.1%	(2)
2018	81,740	954	0	4	0.4%	1	2	0.2%	(2)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Participants 1 Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	5,060.25	5,414.47	5,060.25
Winter kW Reduction	4,756.50	5,089.46	4,756.50	5,089.46
Annual kWh Reduction	1,184,085	1,245,657	1,184,085	1,245,657

Utility Cost per Installation (\$), Note 2: 517,539
 Total Program Cost of the Utility (\$000): 17,596.3
 Net Benefits of Measures Installed During Reporting Period (\$000): 1,779.0

Note 1: Savings from measured data
 Note 2: Utility costs based upon total program costs and total participation

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL LIGHTING - CONDITIONED SPACE
 Program Start Date: January 1991
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	6	25	0.0%	86	86	0.1%	61
2016	80,875	80,875	57	50	0.1%	159	245	0.3%	195
2017	81,532	81,532	75	75	0.1%	228	473	0.6%	398
2018	81,740	81,740	110	100	0.1%	193	666	0.8%	566
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	22.68	24.27	4,377.24
Winter kW Reduction	17.65	18.89	3,406.45	3,644.90
Annual kWh Reduction	103,027	108,384	19,884,211	20,918,190

Utility Cost per Installation (\$): 3,048
 Total Program Cost of the Utility (\$000): 588.2
 Net Benefits of Measures Installed During Reporting Period (\$000): 9,870.1
 Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL LIGHTING - UNCONDITIONED SPACE
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	2	5	0.0%	16	16	0.0%	11
2016	80,875	80,875	13	10	0.0%	60	76	0.1%	66
2017	81,532	81,532	50	15	0.0%	338	414	0.5%	399
2018	81,740	81,740	50	20	0.0%	246	660	0.8%	640
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	7.05	7.54	1,734.05	1,855.44
Winter kW Reduction	7.05	7.54	1,734.05	1,855.44
Annual kWh Reduction	36,922	38,842	9,082,812	9,555,118

Participants 246

Utility Cost per Installation (\$): 729
 Total Program Cost of the Utility (\$000): 179.4
 Net Benefits of Measures Installed During Reporting Period (\$000): 792.0
 Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL STREET AND OUTDOOR LIGHTING CONVERSION
 Program Start Date: February 2018
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
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	0	0	0	0	0.0%	0	0	0.0%	0
2018	209,821	209,821	42,115	42,115	20.1%	31,936	31,936	15.2%	(10,179)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.13	0.14	4,247.49	4,544.81
Annual kWh Reduction	576	606	18,395,136	19,351,683

Utility Cost per Installation (\$): 119
 Total Program Cost of the Utility (\$000): 3,795.5
 Net Benefits of Measures Installed During Reporting Period (\$000): 1,521.9
 Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL OCCUPANCY SENSORS
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	20	15	0.0%	2	2	0.0%	(13)
2016	80,875	80,875	15	30	0.0%	12	14	0.0%	(16)
2017	81,532	81,532	15	45	0.1%	4	18	0.0%	(27)
2018	81,740	81,740	12	60	0.1%	7	25	0.0%	(35)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1				Participants 7	
	Per Installation		Program Total		
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	37.60	40.23	263.21	281.64	
Winter kW Reduction	30.08	32.19	210.57	225.31	
Annual kWh Reduction	80,892	85,098	566,244	595,689	

Utility Cost per Installation (\$): 3,498
 Total Program Cost of the Utility (\$000): 24.5
 Net Benefits of Measures Installed During Reporting Period (\$000): 10.0
 Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL LOAD MANAGEMENT- EXTENDED
 Program Start Date: January 1988
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	0	1	0.0%	0	0	0.0%	(1)
2016	80,875	80,875	0	2	0.0%	0	0	0.0%	(2)
2017	81,532	81,532	0	3	0.0%	0	0	0.0%	(3)
2018	81,740	81,740	0	4	0.0%	0	0	0.0%	(4)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants	
			Program 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

Utility Cost per Installation (\$): 0
 Total Program Cost of the Utility (\$000): 0.0
 Net Benefits of Measures Installed During Reporting Period (\$000): 0.0

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL LOAD MANAGEMENT- CYCLIC
 Program Start Date: January 1988
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	0	1	0.0%	0	0	0.0%	(1)
2016	80,875	80,875	0	2	0.0%	0	0	0.0%	(2)
2017	81,532	81,532	0	3	0.0%	0	0	0.0%	(3)
2018	81,740	81,740	0	4	0.0%	0	0	0.0%	(4)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Program 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

Utility Cost per Installation (\$), Note 1: 1
 Total Program Cost of the Utility (\$000): 7.0
 Net Benefits of Measures Installed During Reporting Period (\$000): 0.0
 Note 1: Utility costs based upon total program costs and total participation

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL/INDUSTRIAL REFRIGERATION (ANTI-CONDENSATE)
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [[d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [[g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	8,028	2	1	0.0%	0	0	0.0%	(1)
2016	80,875	8,088	2	2	0.0%	0	0	0.0%	(2)
2017	81,532	8,153	2	4	0.0%	0	0	0.0%	(4)
2018	81,740	8,174	2	6	0.1%	0	0	0.0%	(6)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.80	0.86	0.00	0.00
Winter kW Reduction	1.32	1.41	0.00	0.00
Annual kWh Reduction	12,933	13,606	0	0

Utility Cost per Installation (\$): 0
 Total Program Cost of the Utility (\$000): 0.3
 Net Benefits of Measures Installed During Reporting Period (\$000): 0.0

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: STANDBY GENERATOR
 Program Start Date: January 1991
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	2,304	0	1	0.0%	4	4	0.2%	3
2016	80,875	2,449	1	2	0.1%	0	4	0.2%	2
2017	81,532	2,430	1	3	0.1%	6	10	0.4%	7
2018	81,740	2,486	1	4	0.2%	1	11	0.4%	7
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018, Note 1

	Per Installation		Participants 1 Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	429.00	459.03	429.00
Winter kW Reduction	429.00	459.03	429.00	459.03
Annual kWh Reduction	42,900	45,131	42,900	45,131

Utility Cost per Installation (\$), Note 2: 3,738,152
 Total Program Cost of the Utility (\$000): 3,738.2
 Net Benefits of Measures Installed During Reporting Period (\$000): 7,323.3

Note 1: Savings from measured data
 Note 2: Utility costs based upon total program costs and total participation

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: THERMAL ENERGY STORAGE
 Program Start Date: November 2015
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	7,733	1	1	0.0%	0	0	0.0%	(1)
2016	80,875	7,791	6	3	0.0%	0	0	0.0%	(3)
2017	81,532	7,845	3	6	0.1%	1	1	0.0%	(5)
2018	81,740	7,865	3	11	0.1%	1	2	0.0%	(9)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants 1 Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Summer kW Reduction	101.00	108.07	101.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	468	492	468	492

Utility Cost per Installation (\$): 56,500
 Total Program Cost of the Utility (\$000): 56.5
 Net Benefits of Measures Installed During Reporting Period (\$000): 85.1

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL WALL INSULATION
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	1	2	0.0%	0	0	0.0%	(2)
2016	80,875	80,875	1	4	0.0%	0	0	0.0%	(4)
2017	81,532	81,532	1	6	0.0%	0	0	0.0%	(6)
2018	81,740	81,740	1	8	0.0%	0	0	0.0%	(8)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants	
			Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.50	0.54	0.00	0.00
Winter kW Reduction	0.39	0.42	0.00	0.00
Annual kWh Reduction	682	717	0	0

Utility Cost per Installation (\$): 0
 Total Program Cost of the Utility (\$000): 0.0
 Net Benefits of Measures Installed During Reporting Period (\$000): 0.0

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL WATER HEATING
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	1	1	0.0%	0	0	0.0%	(1)
2016	80,875	80,875	1	2	0.0%	0	0	0.0%	(2)
2017	81,532	81,532	3	3	0.0%	0	0	0.0%	(3)
2018	81,740	81,740	3	4	0.0%	0	0	0.0%	(4)
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.63	0.68	0.00	0.00
Winter kW Reduction	0.33	0.35	0.00	0.00
Annual kWh Reduction	4,735	4,981	0	0

Utility Cost per Installation (\$): 0
 Total Program Cost of the Utility (\$000): 0.8
 Net Benefits of Measures Installed During Reporting Period (\$000): 0.0

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL WINDOW FILM
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	18	40	0.0%	18	18	0.0%	(22)
2016				Program was retired on November 3, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Participants	Participants	Participants	Participants
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL/INDUSTRIAL EFFICIENT MOTORS
 Program Start Date: March 2008
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	12,302	10	50	0.4%	0	0	0.0%	(50)
2016				Program was retired on November 3, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL LIGHTING - EXIT SIGNS.
 Program Start Date: May 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	72	540	0.7%	2	2	0.0%	(538)
2016				Program was retired on November 3, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants	
			Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL HVAC RE-COMMISSIONING
 Program Start Date: November 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	225	490	0.6%	250	250	0.3%	(240)
2016				Program was retired on November 3, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants	
			Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL ENERGY RECOVERY VENTILATION
 Program Start Date: May 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	5	44	0.1%	0	0	0.0%	(44)
2016				Program was retired on November 3, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants	
			Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: COMMERCIAL ROOF INSULATION
 Program Start Date: May 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	2	5	0.0%	2	2	0.0%	(3)
2016				Program was retired on November 3, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RESIDENTIAL PV
 Program Start Date: April 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	628,392	0	60	0.0%	53	53	0.0%	(7)
2016				Program was retired on December 31, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RENEWABLE - SOLAR WATER HEATING
 Program Start Date: April 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	628,392	0	15	0.0%	54	54	0.0%	39
2016				Program was retired on December 31, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RENEWABLE - LOW-INCOME WATER HEATING
 Program Start Date: April 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	628,392	125,678	0	5	0.0%	0	0	0.0%	(5)
2016				Program was retired on December 31, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Participants	
			Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: Commercial PV
 Program Start Date: April 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	80,277	80,277	0	5	0.0%	1	1	0.0%	(4)
2016				Program was retired on December 31, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	Participants	Participants	Participants	Participants
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RENEWABLE - PV FOR SCHOOLS
 Program Start Date: April 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	79,457	301	0	1	0.3%	1	1	0.3%	0
2016				Program was retired on December 31, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

Demand Side Management Annual Report

Utility: Tampa Electric Company
 Program Name: RENEWABLE - PV FOR SCHOOLS
 Program Start Date: April 2011
 Reporting Period: Annual 2018

a	b	c	d	e	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 % [(d/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(g/c)x100]	Actual Participation Over (Under) Projected Participants (g-d)
2015	79,457	301	0	1	0.3%	1	1	0.3%	0
2016				Program was retired on December 31, 2015.					
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									

Annual Demand and Energy Savings - 2018

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

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

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

Utility: TAMPA ELECTRIC COMPANY

Residential

Year	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
	Total Achieved	Commission Approved		Total Achieved	Commission Approved		Total Achieved	Commission Approved	
		Goal	% Variance		Goal	% Variance		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									
2020									
2021									
2022									
2023									
2024									

Commercial/Industrial

Year	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
	Total Achieved	Commission Approved		Total Achieved	Commission Approved		Total Achieved	Commission Approved	
		Goal	% Variance		Goal	% Variance		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									
2020									
2021									
2022									
2023									
2024									

Combined

Year	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
	Total Achieved	Commission Approved		Total Achieved	Commission Approved		Total Achieved	Commission Approved	
		Goal	% Variance		Goal	% Variance		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									
2020									
2021									
2022									
2023									
2024									

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

Utility: TAMPA ELECTRIC COMPANY

Residential									
Year	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved 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									
2020									
2021									
2022									
2023									
2024									
Commercial/Industrial									
Year	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved 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									
2020									
2021									
2022									
2023									
2024									
Combined									
Year	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved 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									
2020									
2021									
2022									
2023									
2024									

**TAMPA ELECTRIC COMPANY-SUMMARY OF 2018
DEMAND SIDE MANAGEMENT PROGRAM ACCOMPLISHMENTS**

Appendix A

DSM Energy Education and Awareness Activities of 2018

Tampa Electric Company participated in over 80 designated energy education and awareness events across the company's service area in 2018. These events do not include the daily interactions of energy education that Tampa Electric Team Members have with customers through email or phone calls, 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:

- Plant City MLK Festival
- MM Fitness
- Continuous Improvement Showcase
- Strawberry Ridge Vendor Fair
- Steam Night
- CPSA Family Fun Night
- Farm Night BBQ
- Fiesta Day
- GRCC Monthly Membership Meeting Luncheon
- Chester W. Taylor Jr. Elementary School
- Crime Free Multi Housing Class- Presentation
- Taste of Winter Haven
- Ruby Lake Annual HOA meeting
- Springhill Park Community Center
- Southshore Chamber 26th Annual Apollo Beach Manatee 3/10
- Go Green at the Amalie
- Forest Hill Park Community Center
- Lifestyles After 50 Fun Fest
- Kids Rock Science
- New Tampa Regional Library
- The Great American Teach-In
- The Greater Temple Terrace Chamber of Commerce Business Expo
- 2nd Annual Wimauma Heart of Hillsborough
- Solar Fair 2018
- Spring Trade Show
- Lawton Chiles Elementary
- MetLife Earth Day Fair
- Brandon Lions Club
- YMCA at Big Bend Rd
- YMCA at Valrico – Camp Family

- ECO Fest
- Grow Financial Earth Day
- Lifestyles After 50 Hurricane Preparedness
- Walk A Mile in Her Shoes
- Let's Beat Ovarian Cancer
- Clean Air Fair
- Traditions Clubhouse Vendor Fair
- TECO Energy Safety, Health & Emergency Preparedness
- Lawton Chiles Elementary Science Night
- 2018 Hillsborough County Neighborhoods Conference
- Lawton Chiles Elementary – Solar Car Race
- Summer Family Resource Fair
- College Hill Church of God in Christ
- Four Lakes Coffee Talk
- Kids with a Call, INC
- Richard's Father's Day Walk
- Coffee at Lake Ashton
- Valrico Lake Advantage Academy
- Manufactured Homes
- Swindle Medical Arts Center – Plant City
- Lennard High School – Ruskin
- Bowers Whitley Career Center – University
- Middleton High School – East Tampa
- Kids Day 2018
- Howard W. Blake High School – West Tampa
- Tampa Home Show 8/25
- City of Oldsmar 8/31
- Lifestyles After 50 Fun Fest
- Crop Mania – Joshua House
- Girl Scouts of West Central Florida
- South Tampa Chamber of Commerce
- Community Picnic – Health Fair
- Temple Terrace National Night Out
- Sun City Center Chamber of Commerce – Fall Business Expo
- Bloomingdale Medical Assoc.
- Birding & Nature Festival
- Cub Scouts
- Hillsborough Country Building
- How to Fix It
- Valencia Lakes Fraud Prevention Day
- Haunted Happenings
- Fall Festival
- 30th Annual Ruskin Seafood Festival
- Brandon Chamber Luncheon

- Wellness & Benefit Fair – DART
- A Walk for Life
- Great American Teach-In

Tampa Electric's Commercial Low-Income Weatherization Research & Development Project 2017 - 2018

Purpose:

Determine the potential summer and winter demand, annual energy savings, and feasibility of offering a commercial weatherization demand side management (“DSM”) program designed toward small to midsize commercial customers operating businesses in low-income areas within Tampa Electric’s service territory.

Table of Contents:

1. Background
2. Project scope
3. Instrumentation
4. Weather
5. Results
6. M & V Graphs

Background:

Tampa Electric has proven success with facilitating the residential Weatherization DSM program. In the beginning of 2017, Tampa Electric's Regulatory Staff requested the company's Commercial Energy Management Services Team to develop and implement a Research and Development ("R&D") project that would provide a series of energy conservation measures that would directly reduce the weather sensitive peak for small to midsize commercial customers that operated within low-income areas within Tampa Electric's service territory. This project would identify the summer and winter demand and associated annual energy savings to the installed energy conservation measures in addition to determining the feasibility of potentially offering a commercial low-income weatherization DSM program.

Project Scope:

Evaluate the energy and demand savings of an energy saving kit offering energy efficiency measures for small to midsize commercial customers in low-income areas.

Tampa Electric's Commercial Energy Management team initially identified 12 potential energy efficiency measures that could be utilized in a kit for small commercial business. This initial list was compiled based on the team's knowledge and experience gained from performing energy audits.

The initial energy efficiency measures that were identified were:

- Duct seal
- Insulation
- LED lighting
- Weather-stripping for conditioned to non-conditioned space doors
- Seal and caulk windows
- Programmable thermostats
- Insulation of air conditioner refrigerant lines
- Ceiling tile repair/replacement
- Occupancy sensor
- Hot water pipe insulation/wrap
- HVAC recommissioning
- Refrigerator gaskets and seals

The Commercial Energy Management team determined that further validation was required in order to establish what measures would effectively work as a kit in a potential DSM program offering. Because the types of small commercial businesses varies significantly, as well as having quite different demand and energy usage profiles, it was essential to refine the potential energy efficiency measures. To perform this refinement, the team determined that this would could be effectively accomplished by performing

energy audits to obtain information and data from a sampling of small commercial businesses.

The Commercial Energy Management team determined that to obtain an effective sample, the company would need to perform approximately 30 energy audits. Of these facilities that received an energy audit, the team decided that approximately 10 of these sites would be selected to receive the energy efficiency measures that would be identified as the final kit. The team utilized Florida Census Tract data to determine low-income target areas for the performance of the energy audits. The team then canvassed the target areas to create a pool of 30 businesses which would be used to establish the final R&D participants.

Each of the 30 business owners were contacted personally and received a detailed explanation of the energy audit and also potential participation in the R&D project. In the performance of the energy audit, the customers received the same comprehensive high-quality commercial walk-through energy audit, performed by a Tampa Electric commercial energy analyst, the company performs on a daily basis. The commercial energy analyst evaluated energy-consuming equipment at the customer's facility. Recommended low-cost/no-cost measures, as well as measures with short and longer paybacks. The commercial energy analyst followed up with a detailed report of energy saving opportunities along with billing history, energy usage graphs, energy usage and cost forecasting, as well as benchmarking and greenhouse gas emissions information. In the process of performing the audit, the commercial energy analyst also identified a list of measures that would reduce the weather sensitive peak to that specific customer.

After the performance of the energy audits, the specific energy efficiency measures identified that could potentially become part of the kit were evaluated. Each measure was examined to determine which ones would have the best opportunity for energy and demand savings, which of these measures were applicable to most or all of these businesses and finally which ones could effectively be part of a potential energy kit offering. From this evaluation, the following energy efficiency measures were chosen:

- Duct seal
- Ceiling and wall insulation
- LED lighting (screw in type)
- Weather-stripping for conditioned to non-conditioned space doors
- Programmable thermostats

Once this final list of measures was established for the kits, the Commercial Energy Management team met with Regulatory to present the findings and to receive approval to move forward with the installation of the energy efficiency measures identified. In this meeting and several additional follow-up meetings, the company selected 11 businesses that would receive the energy efficiency measures. The market segments of these businesses provided a good cross section for the R&D project. The market segments varied from grocery store, retail, photography, restaurant and office space. The company procured a weatherization contractor that would install the needed measures for that specific business. If the business already had one of the selected measures, the business would receive the remaining other measures.

Each customer that was selected was contacted, and an appointment was scheduled to install the applicable measures. At each installation, a Tampa Electric Commercial Energy Analyst was also at the business to monitor the installation of the measures.

Following the installation of the energy efficiency measures, the Commercial Energy Management team reviewed the monthly demand and energy usage three months after the measures were installed and again after six months. This data was used to validate the potential demand and energy savings. During this time, Tampa Electric's Commercial Energy Analysts conducted site visits to each site to verify any changes in the participating businesses. The analysts reported any changes and made recommendations that would aide the participating business.

The final measure and verification was completed in December 2018 and the findings are enclosed in this report. They were obtained utilizing the monthly electric meter data. Two of the initial participants had limited data because they relocated their business from the original site location.

While there were some favorable results, a majority of the participants demonstrated an increase in energy and/or demand use. Seven of the original 11 participants showed an increase and four participants showed a decrease in their energy usage. Base on the data collected and analyzed, it would indicate that a prescribed kit type program is not advantageous at this time. The factors found during the commissioning follow-up visits indicated:

- Poor use of thermostat equipment had the highest negative effect. The team found that customers would manually override the programmable thermostats and leave them on this inefficient setting.
- Incompatible equipment. The company found that some programmable thermostats do not communicate effectively with some existing HVAC equipment thus making the system inefficient.
- Damage to facility. In two cases, facility damage prevented the facility from receiving the full benefits of the energy efficiency measures.
- Volatility in the market for low-income area businesses. While it is evident that a program like this is advantageous, from offering it as a DSM program has concerns for reliable demand and sustained energy savings over time.
- It also appeared that with the energy efficiency measures installed, some customers took advantage of the higher energy efficiency of the overall site but changed temperature setpoints, causing more energy and demand to be consumed.

Instrumentation:

Electric meter data collected monthly and historical billing data.

Weather:

The weather climate during the monitoring period was similar and thus not a factor in the evaluation process. This was validated using degree day information at the National Climate Data Center (NCDC) at <http://www.ncdc.noaa.gov>.

Results:

Business Type	Current Trend	Increase or Decrease (kWh)	kWh Change	Increase or Decrease (SkW)	SkW Change	Increase or Decrease (WkW)	WkW Change
Apartment Clubhouse/Office	Upward	Increase	6,248	Increase	1.3	Increase WkW	2.2
Apartment Clubhouse/Office	Downward	Increase	3,893	Note 1		Note 1	
Auto tire Store	Upward	Increase	309	Note 1		Note 1	
Retail Consignment Shop	Upward	Increase	1,985	Decrease	-0.3	Decrease	-0.6
Maternity Photography	Downward	Decrease	-500	Note 1		Note 1	
Neighborhood Food Market	Stable	Decrease	-16,977	Decrease	-1.6	Decrease	-3.6
Historical Museum Office	Upward	Increase	3,403	Note 1		Note 1	
Retail Seafood	Downward	Decrease	-6,310	Note 1		Note 1	
Sushi Restaurant	Upward	Decrease	-6,549	Note 1		Note 1	
Computer Software	Upward	Increase	4,215	Note 1		Note 1	
Education Center	Upward	Increase	3,707	Increase	3.7	Decrease	-1.4

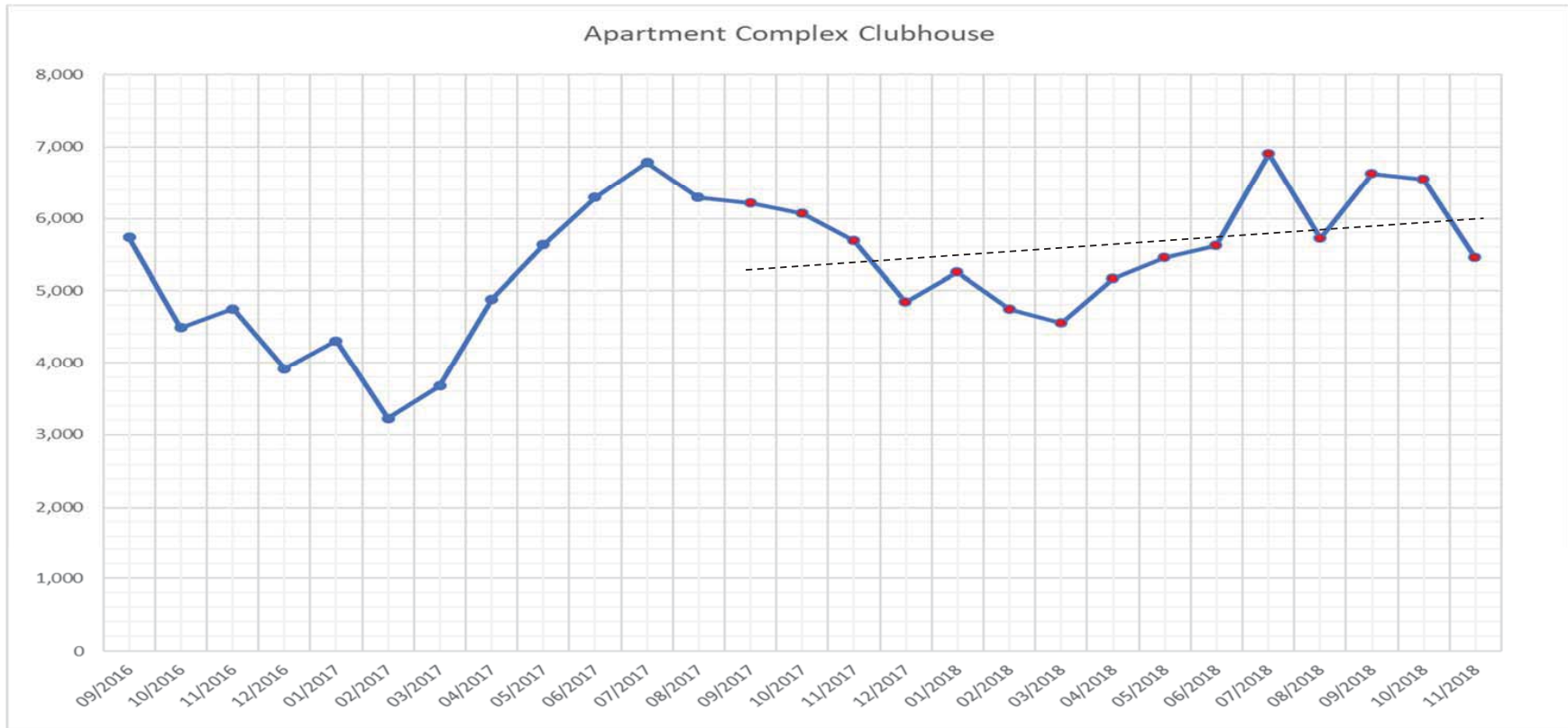
Note 1: Customer is General Service (non-demand)

Graphs:

Participant #1: 1,679 Sq. Ft. Apartment Clubhouse/Office

- Measures Installed: Added R19 insulation
- Installed (2) “Nest” Programmable Thermostat
- Sealed Air Duct Systems
- Installed 4 LED screwing lamps

Note: The thermostats installed at this location were not compatible with the customer’s air conditioning equipment. The customer eventually replaced the Nest thermostats with standard digital thermostats.



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Participant #2: 1,110 Sq. Ft. Apartment Clubhouse/Office

Measures Installed: Added R19 insulation
Installed (1) "Nest" Programmable Thermostat
Sealed Air Duct System
Installed 6 LED screwing lamps

Note: Initially the customer was still operating the thermostat manually and overriding the Nest thermostat. The customer received additional education during follow-up site visit from Tampa Electric's commercial energy management staff.

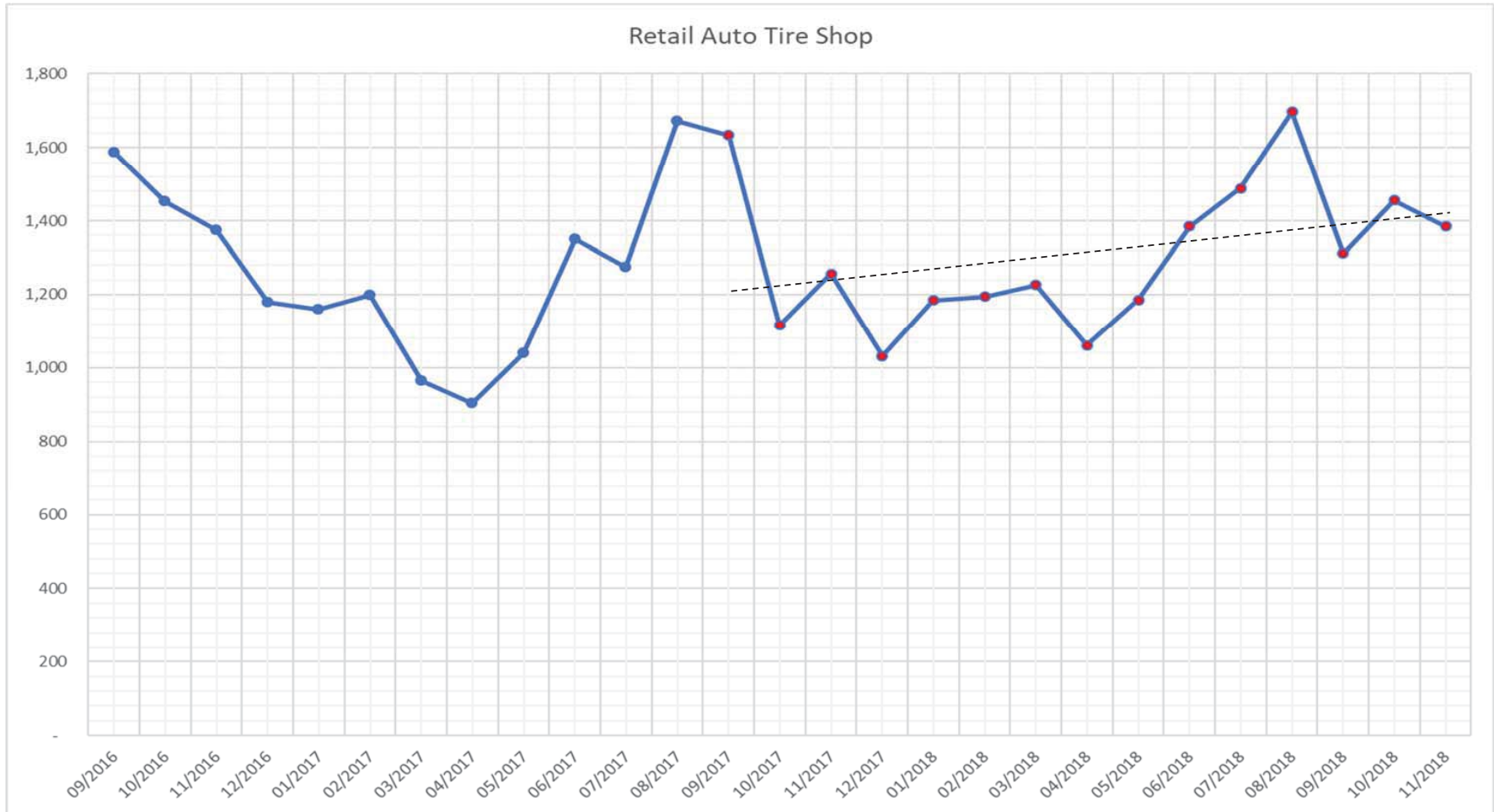


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Participant #3: 1,000 Sq. Ft. Auto Tire Store

Measures Installed: Added 600 Sq. Ft. of R19 batted wall insulation to one wall

Note: This was a small facility with a window air conditioning system. The majority of energy usage was attributed to automotive repair equipment. Thus, the wall insulation did not significantly affect the energy consumption.



GWh

Participant #4: 1,400 Sq. Ft. Retail Consignment Store

Measures Installed: Installed (1) “Honeywell” Programmable Thermostat
Installed Weather-stripping to front door

Note: During the follow-up site visit, it was discovered the Honeywell thermostat was not operating correctly, so it was not controlling the air conditioning systems efficiently. In addition, the damage to the front door was so severe that the weather-stripping had minimal impact on decreasing the electric usage.

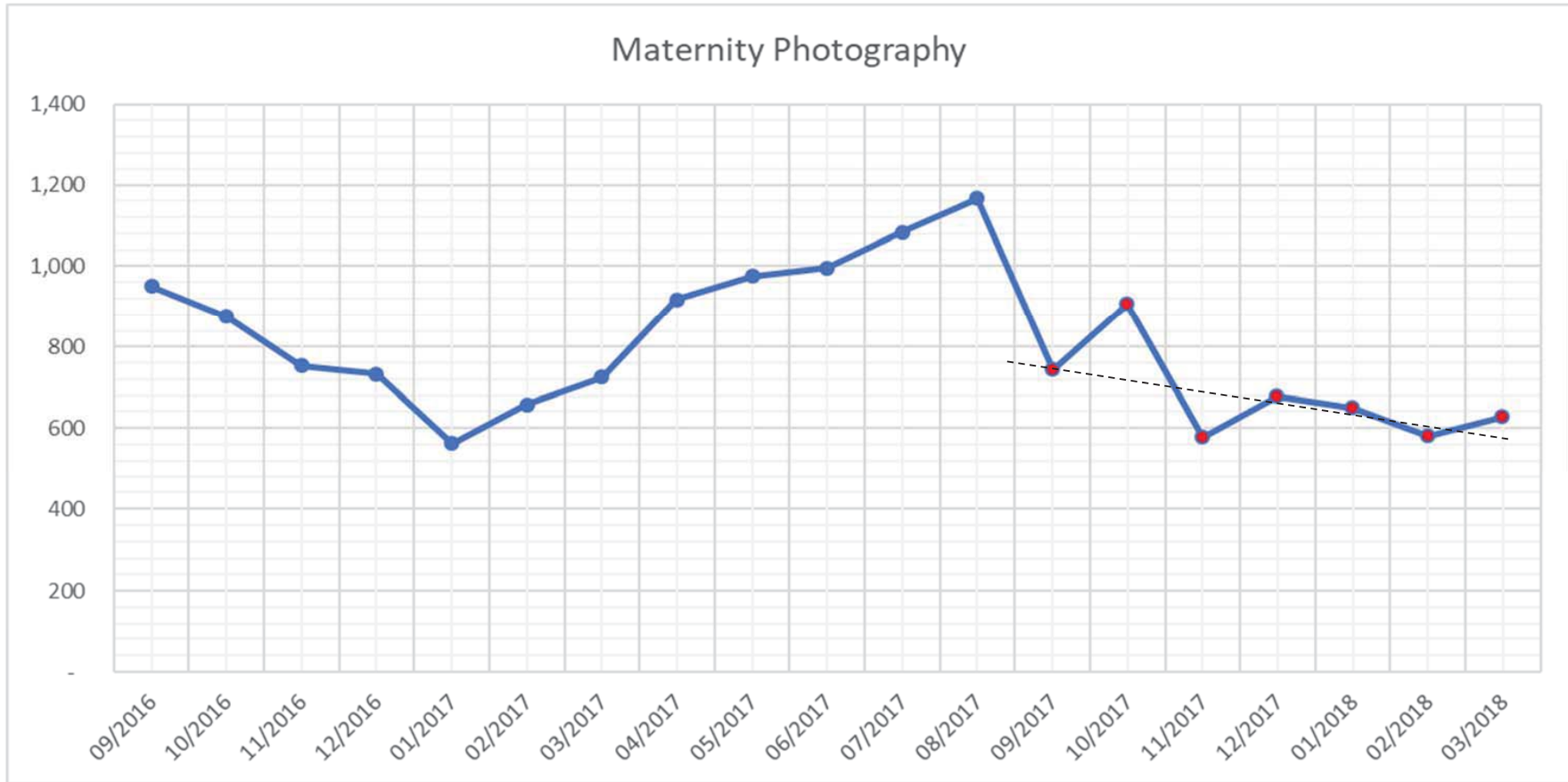


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Participant #5: 537 Sq. Ft. Maternity Photography

- Measures Installed: Installed (1) “Honeywell” Programmable Thermostat
- Installed R19 Ceiling Insulation
- Seal Air Duct System
- Installed 6 LED Screw-in lamps

Note: This facility showed a decrease in the energy consumption compared to the same time the previous year. Unfortunately, the business relocated seven months after the measures were installed so data is limited.

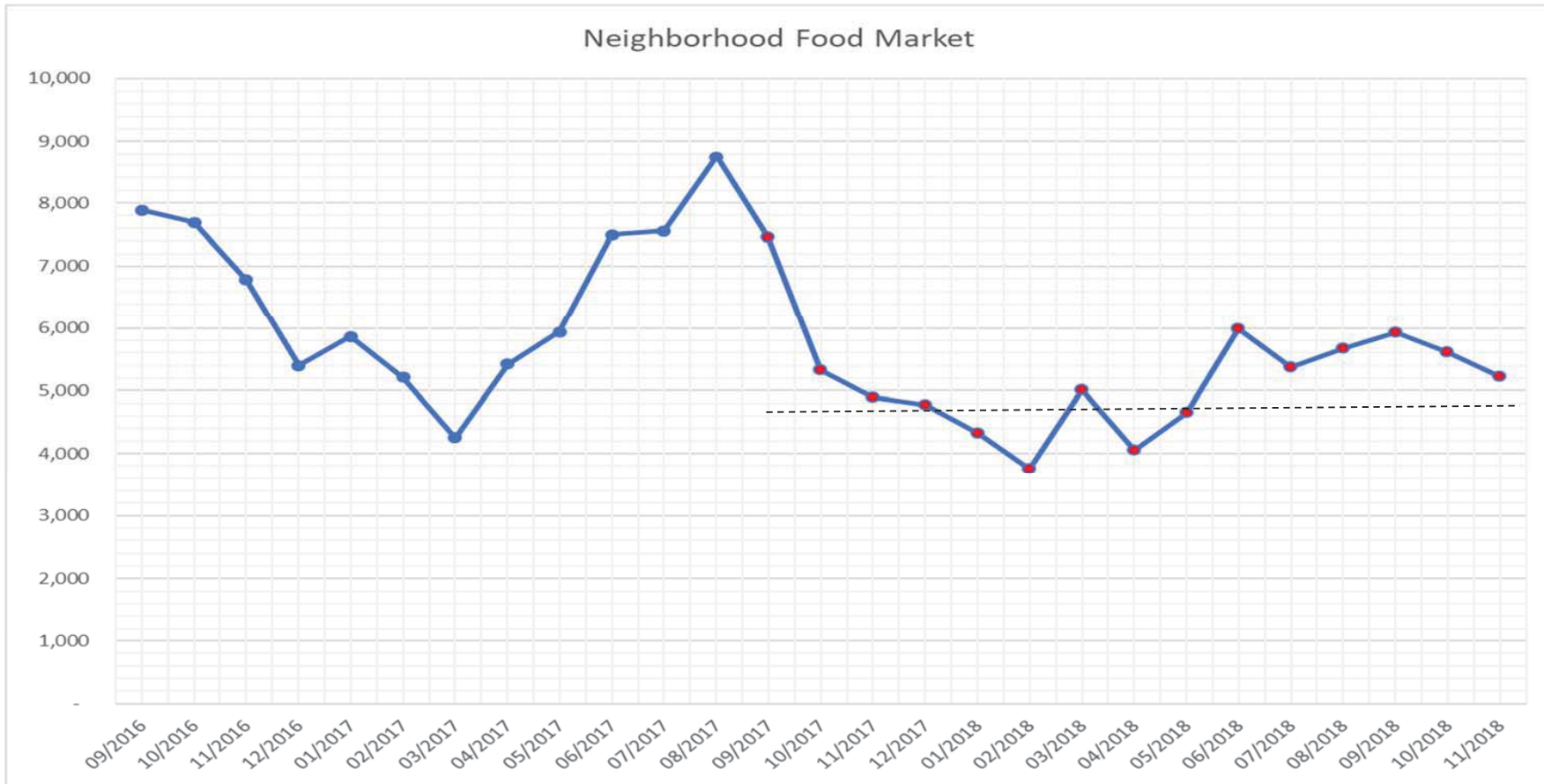


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Participant #6: 1,300 Sq. Ft. Neighborhood Food Market

Measures Installed: Installed (1) “Honeywell” Programmable Thermostat
Installed R19 Ceiling Insulation
Seal Air Duct System
Installed 6 LED Screw-in lamps

Note: This facility showed a decrease in both energy consumption and demand reduction compared to the same time the previous year.

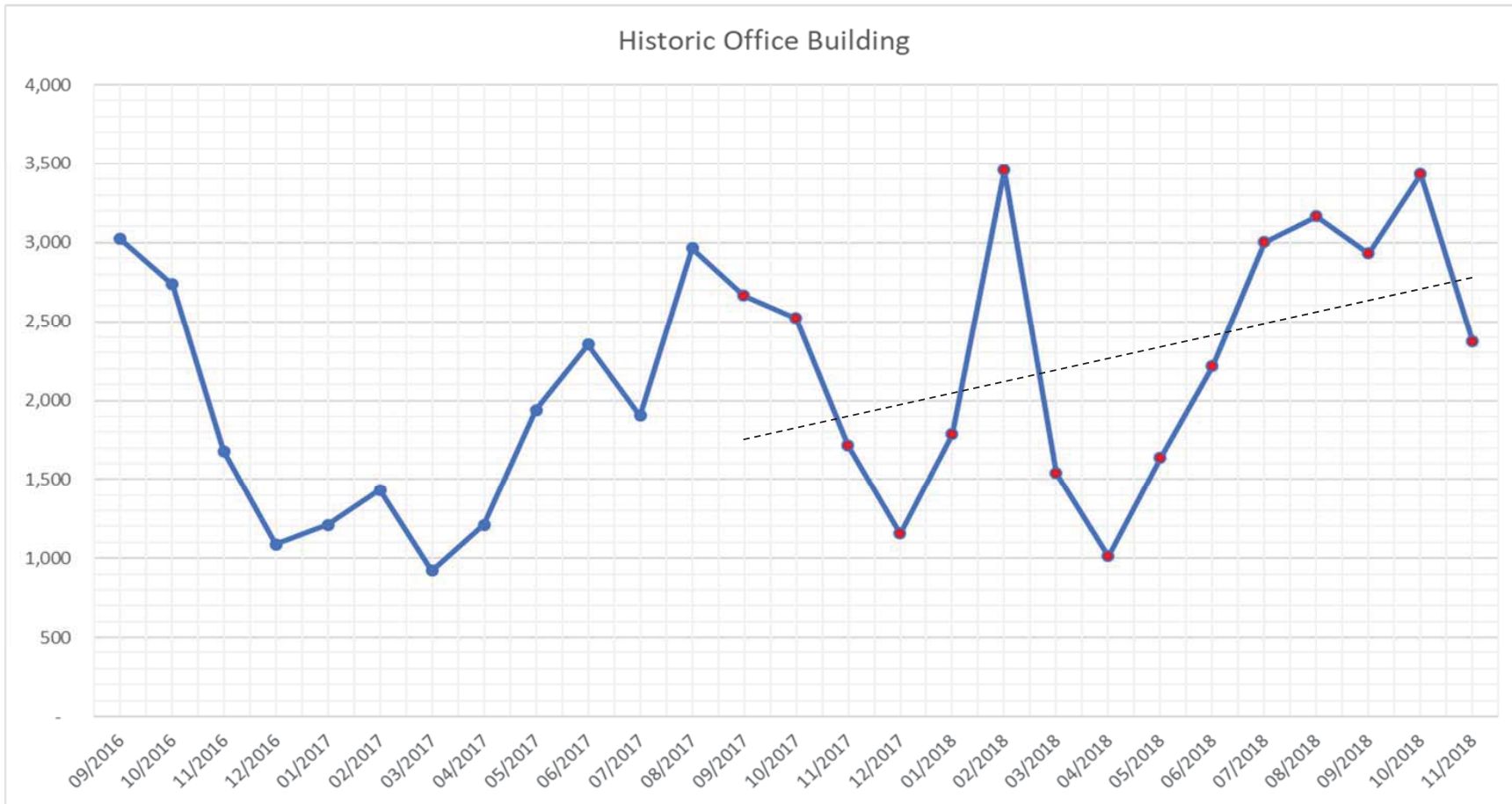


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Participant #7: 2,500 Sq. Ft. Historic Office Building

Measures Installed: Installed (3) "Honeywell" Programmable Thermostat
Installed R19 Ceiling Insulation
Installed 6 LED Screw-in lamps

Note: This facility showed an increase in energy consumption due to the customer manually overriding the programmable thermostat settings.



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Participant #8: 512 Sq. Ft. Seafood Store

Measures Installed: Installed (1) “Honeywell” Programmable Thermostat
Installed R19 Ceiling Insulation
Installed 6 LED Screw-in lamps

Note: This facility showed a decrease in the energy consumption compared to the same time the previous year. Unfortunately, the business relocated seven months after the measures were installed so data is limited.



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Participant #9: 1,300 Sq. Ft. Sushi Restaurant

Measures Installed: Installed (1) "Honeywell" Programmable Thermostat
Sealed Air Duct System

Note: This facility showed a decrease in the energy consumption compared to the same time the previous year.



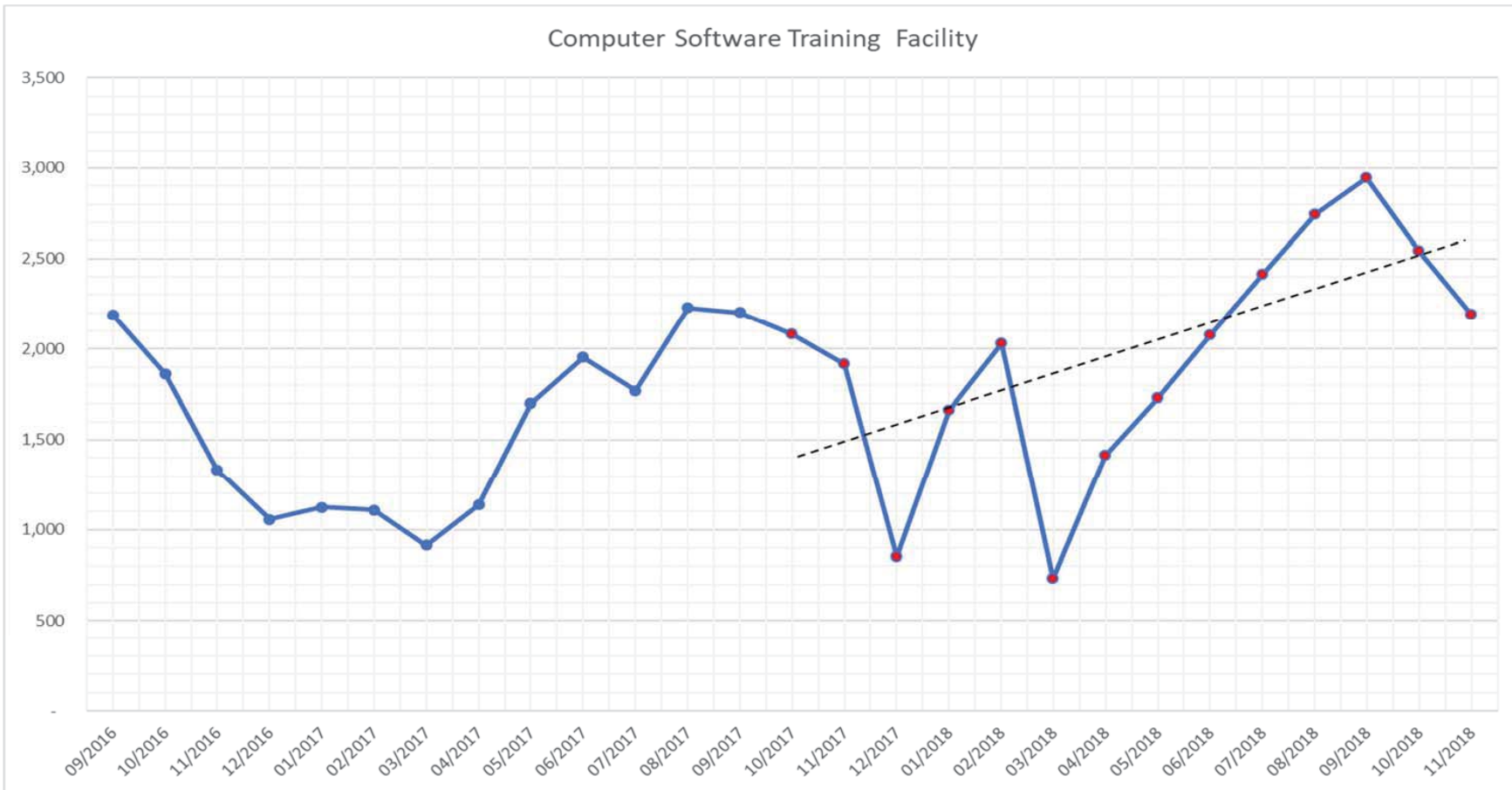
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Participant #10: 1,300 Sq. Ft. Computer Software Training Facility

Measures Installed: Added R19 Ceiling Insulation
Sealed Air Duct System

Note: This facility showed no decrease in the energy consumption compared to the same time the previous year. Customer manually overrides the existing programmable thermostat. In addition, the building was older frame construction and the building envelope was not sealed tight which allows for nonconditioned air infiltration.

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Participant #11: 3,000 Sq. Ft. Education Center with Residential Quarters

- Measures Installed: Added R19 Ceiling Insulation
- Sealed Air Duct System
- Installed (1) "Honeywell" Programmable Thermostat
- Installed (6) Screw-in LED lamps

Note: This facility showed no decrease in the energy consumption compared to the same time the previous year. Customer manually overrides the existing programmable thermostat. In addition, this is an older frame two story building and the building envelope was not sealed tight which allows for outside nonconditioned air infiltration.

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