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March 1, 2023

VIA: ELECTRONIC MAIL

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

Re: Tampa Electric Company's Summary of 2022 DSM Program Accomplishments

Dear Ms. Harlow,

Enclosed for filing is Tampa Electric Company's Summary of 2022 Demand Side Management Program Accomplishments.

Thank you for your assistance in connection with this matter.

Sincerely,

Mililan n. Means

Malcolm N. Means

MNM/bml Enclosure

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

TAMPA ELECTRIC'S 2022

Demand Side Management Program Accomplishments Report





Executive Summary

Executive Summary:

In 2022, Tampa Electric achieved all of the annual and cumulative Residential and Commercial/Industrial ("Comm/Ind") and combined Demand and Annual Energy ("AE") DSM goals.

2022 Residential G	oals	Actual Residential I	<u> DSM Achieved</u>
SkW:	3.0 MW	SkW:	11.1 MW
WkW:	7.4 MW	WkW:	9.5 MW
AE:	6.9 GWh	AE:	30.4 GWh
2022 Comm/Ind Go	als	Actual Comm/Ind D	SM Achieved
SkW:	3.3 MW	SkW:	12.3 MW
WkW:	1.9 MW	WkW:	7.1 MW
AE:	10.2 GWh	AE:	26.6 GWh
2022 Combined Go	als	Actual Combined D	SM Achieved
SkW:	6.3 MW	SkW:	23.4 MW
WkW:	9.3 MW	WkW:	16.6 MW
AE:	17.1 GWh	AE:	57.1 GWh

This 2022 DSM Annual Report provides the required DSM reporting information as required by the Commission, including providing updates on historical program accomplishments, challenges and highlights that occurred.

2022 DSM Summary Highlights:

- Tampa Electric's team members that facilitate the conservation related activities experienced zero injuries during 2022.
- The company performed 13,469 Walk-Through Energy Audits for Residential customers, including 4,310 as part of the Residential Walk-Through and Computer Assisted Energy Audit programs and 9,159 as a component of the company's Neighborhood Weatherization program.
- 109,802 of the company's customers took advantage of the Residential Customer Assisted Energy Audit (online) in 2022.
- The company installed weatherization on 9,159 homes as part of the Neighborhood Weatherization program. This participation rate brings the overall penetration level of this program to approximately 38 percent for all qualifying customers.
- The company's Program Support Team processed nearly 100 percent of the 8,293 energy efficiency rebates paid to customers within ten business days of receiving all the required documents for verification.

- Tampa Electric completed the first full year of operational testing of the Integrated Renewable Energy System ("IRES"). A summary detail report is included within this report.
- The company continued to perform research on potential small to mid-size commercial batteries that could be used as a specific Research and Development (R&D) project. A summary of this research is included within this report. The company plans to purchase and install batteries to be studied at customer facilities during 2023.
- Tampa Electric is close to completion of the Light Emitting Diode Street and Outdoor Lighting conversion program. The company estimates that the total conversion of 209,821 luminaires will be complete during the first part of 2023.
- Since the inception of offering Commission approved DSM programs through May 2022, the amount of customer funded dollars collected through the Energy Conservation Cost Recovery Clause on a cumulative basis exceeded one (1) Billion dollars.
- In 2022, the company began collaborating with the other FEECA utilities to begin developing the Technical Potential Study that will serve as the basis for the DSM Goals that will be proposed for the 2025-2034 period.
- The Residential Prime Time Plus program installed the equipment on its first customer in December 2022. This innovative DSM Program will leverage the company's Advanced Metering Infrastructure system to facilitate a direct control load management program through a smart thermostat and appliance relay switches. Below is a picture of the smart thermostat that customers will be provided that will facilitate the load control of the air conditioning equipment:



Challenges:

The largest challenge the company encountered in 2022 was the suspension of non-essential operations with customers that require face-to-face interactions (onsite) from Monday, January 3, 2022, through Sunday, January 30, 2022, due to the high infection rates that were seen in Florida from the Omicron Variant. During this time of suspension, Tampa Electric, as in the majority of 2020 and 2021, continued the many steps and efforts to mitigate the impacts to the company's Residential and Commercial/Industrial DSM programs and to provide customers special consideration during these challenging times. The company resumed normal operations once the severity of the Omicron variant was determined to be much less severe than previous variants of COVID-19.

For 2023:

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

2022 Annual Report on DSM Program Accomplishments

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Historical Participation, Achievements, and Expenditures

Historical Participation, Achievements and Expenditures:

Tampa Electric has been offering cost-effective energy efficiency programs since September 1978, when the company started its first residential walk-through energy audit program, known as the Residential Conservation Service. Following the enactment of the Florida Energy Efficiency and Conservation Act ("FEECA"), the company began expanding its offering of Demand Side Management ("DSM") programs to include other energy efficiency and load management programs such as Heating and Air Conditioning, Storage Water Heating, Commercial Energy Audits, Efficiency Buildings, Residential Load Management, Commercial/Industrial Interruptible and Co-Generation. These programs were all designed to achieve the objectives of FEECA, including:

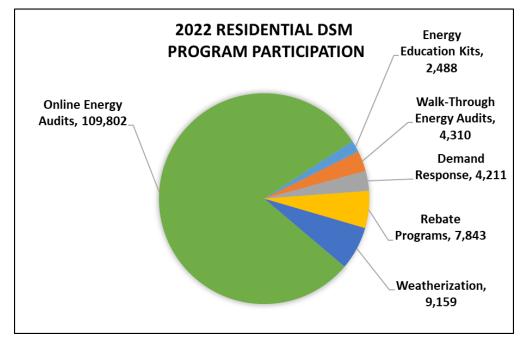
- 1. Reducing the growth rates of weather-sensitive peak demand and electricity usage.
- 2. Increasing the efficiency of the production and use of electricity and natural gas.
- 3. Encouraging demand-side renewable energy systems
- 4. Conserving expensive resources, particularly petroleum fuels

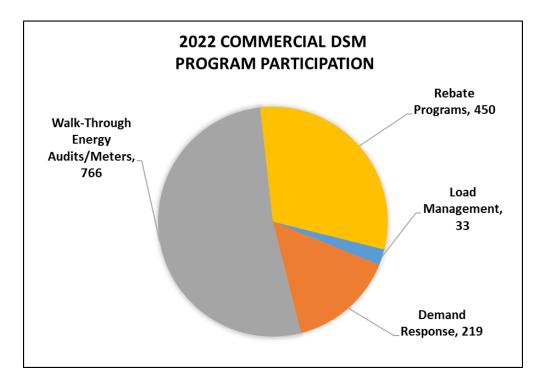
In 2022, Tampa Electric continued to provide the largest portfolio of residential and commercial/industrial energy and demand savings programs in the state of Florida through its Commission approved 2020-2029 DSM Plan. This comprehensive energy efficiency portfolio provides programs in which all customers can participate in and helps customers save energy, demand, money, and benefits all of the company's customers by reducing the company's need to purchase, produce, and deliver additional energy, in addition to reducing emissions to the environment.

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

Customer Participation:

In 2022, Tampa Electric facilitated the participation of 137,813 residential and 1,468 commercial/industrial customers in the company's DSM programs. The charts below provide the breakdown of how these customers participated in the company's DSM programs for the January through December 2022 period:





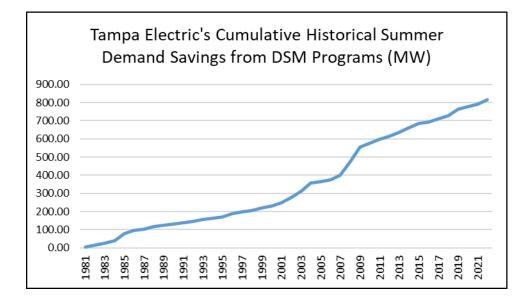
On an historical basis, as of the end of 2022, Tampa Electric has conducted 371,150 Residential and Commercial Walk-Through energy audits, provided 457,354 online, phone or mail in energy audits, paid 512,232 rebates for energy efficient upgrades, and has performed weatherization on 70,752 homes.

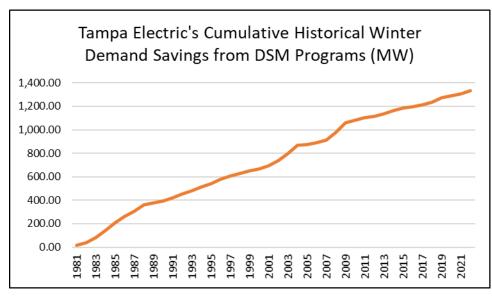
DSM Achievements:

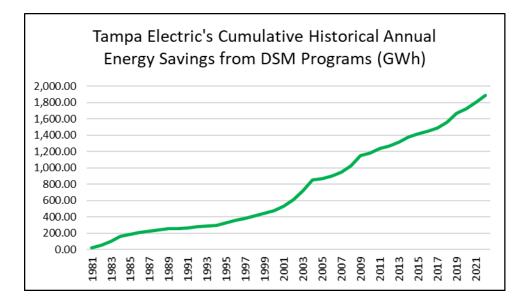
Since the establishment of FEECA and the end of 2022, the company's DSM program have achieved the following cumulative demand and energy savings:

Summer Demand Savings:	815.02 MW
Winter Demand Savings:	1,331.03 MW
Annual Energy Savings:	1,886.72 GWh

It is important to note that the annual energy savings documented for achievement includes only one year of energy savings from the participation in a given DSM program. These energy savings also do not include naturally occurring energy efficiency or savings that would occur from updated building codes or savings that would come from training events. The savings do include demand and energy savings that do not contribute toward the achievement of the annual DSM goals set forth by the Commission (such as behavioral savings quantified or savings from programs such as the LED Streetlight conversion program). These continued Demand Savings achievements have eliminated the need for over seven 180 MW power plants. The charts below show the cumulative demand and energy savings the company has achieved since 1981:

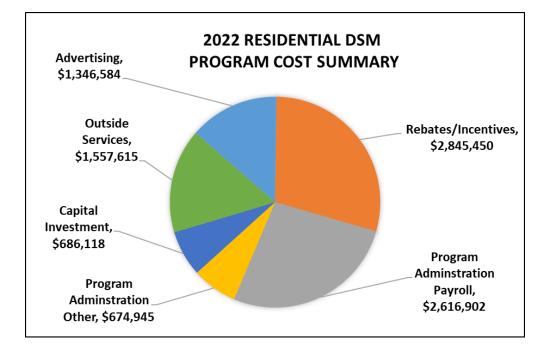


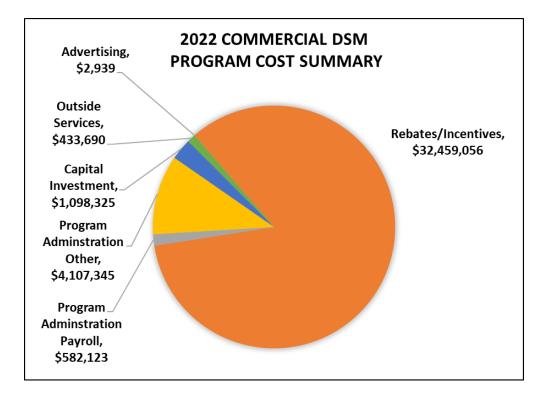




Expenditures:

In 2022, Tampa Electric facilitated the participation of 137,813 residential and 1,468 commercial/industrial customers in the company's DSM programs. The charts below provide the breakdown of the initial true-up costs that were incurred to fund their participation in the company's DSM programs for the January through December 2022 period:





Energy Audits

Energy Audits:

Residential Energy Audits:

Tampa Electric facilitates four types of energy audits for residential customers. A walkthrough energy audit, an online energy audit, a comprehensive energy audit, and a Building Energy-Efficiency Ratings Systems ("BERS") energy audit. The walk-through and online energy audit are free to take advantage of, while the comprehensive and BERS audit have a nominal additional fee to have these performed.



(Tampa Electric Residential Analyst explaining the operation and settings of a water heater)

All of Tampa Electric's Residential Energy Analysts that conduct energy audits are required to achieve and maintain a professional certification in energy auditing or energy management.



(Tampa Electric Residential Energy Analyst taking ceiling insulation depth measurements)



(Tampa Electric Residential Energy Analysts being trained on manufactured home construction)

Commercial Energy Audits:

Tampa Electric facilitates two types of energy audits for commercial/industrial customers. A walk-through energy audit and a comprehensive energy audit. The walk-through energy audit is free to take advantage of, while the comprehensive energy audit has a nominal additional fee to have it performed.

All of Tampa Electric's Commercial/Industrial Energy Analysts that conduct energy audits are required to achieve and maintain the Certified Energy Manager ("CEM") professional certification.



(Tampa Electric Commercial/Industrial Energy Analyst taking notes during their walk-through)

(Conducting a post installation lighting verification, facility was the Triple E Award nomination in the last quarter of 2022)





(Energy audit including the performance of thermal imaging to identify missing insulation above the ceiling)



(Energy audit of a commercial site with a thermal energy storage system)

The table below provides the summary detail of "audit information by type" for the Energy Audits performed by Tampa Electric in 2022.

Tampa Electric's 2022 Energy Audits Performed by Energy Audit Type							
	Walk-Through, BERS, and Computer Assisted Online Phone Total						
Residential	4,310	109,802	0	114,112			
	Walk-Through and Comprehensive	Online	Phone	Total			
Commercial	766	N/A	0	766			

On an historical basis, as of the end of 2022, Tampa Electric has conducted 371,150 Residential and Commercial Walk-Through energy audits and provided 457,354 online, phone or mail in energy audits.

Energy Education and Weatherization Activities

Energy Education and Weatherization Activities:

Energy Education:

Tampa Electric's Energy and Renewable Education, Awareness and Agency Outreach program is comprised of three distinct initiatives:

- 1) Public energy and renewable education
- 2) Energy awareness
- 3) Agency outreach

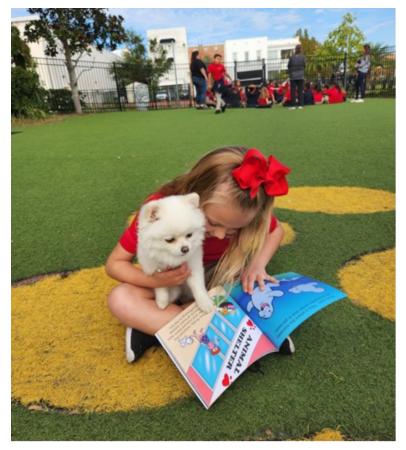
This portion of the program is designed to establish opportunities for engaging groups of customers and students in energy-efficiency and renewable energy related discussions in an organized setting. Tampa Electric recognizes the importance of educating students and motivating customers through participation in its energy audits and raising awareness of energy conservation, energy efficiency and renewable energy efficiency. This program provides the opportunity to accomplish these initiatives for large groups in one setting.



Energy Education at Excelsior Prep Charter

In 2022, Tampa Electric participated in over 17 designated energy education and awareness events across the company's service area. These events do not include the daily opportunities for energy education that Tampa Electric Team Members have with customers through email, phone calls, or one-on-one discussions nor the education customers receive when they participate in one of Tampa Electric's Commission approved DSM programs. These events cover educating all ages, income classes and rate classes of customers on energy education and awareness. Several highlighted events include:

- Tampa Neighborhood Coffee Talk North Tampa
- City of Tampa Parks Recreation Barksdale
- New Homeowners Dare to Dream
- Tampa Neighborhood Coffee Talk Lake Ashton
- Strawberry Ridge Homeowners Association ("HOA")
- Waterview Rocky Point Community HOA
- Tampa and Brandon Lunch and Learn
- Great American Teach-In (several Elementary Schools)
- Lakeshore Villas HOA Lunch and Learn



Energy Education at Elementary School, with Lollipop, and the book Authored by Kristy Bright, "How to Reduce Your Carbon Paw Print"



Energy education with customer at Tampa Bay Buccaneers Training facility

Tampa Electric commits to continue partnering with neighborhood service centers to ensure customers who need assistance in reducing their energy usage and associated cost will receive the appropriate energy education and guidance. Participants will be provided with an energy efficiency kit containing the following energy saving devices and supporting information appropriate for the audience.

- Four LED lamps
- HVAC filter whistle
- Two low flow faucet aerators
- Wall plate thermometer
- Water heating temperature check card for adjustment of the water heater
- Energy savings education handout

In 2022, Tampa Electric provided 2,488 of these energy efficiency kits to qualifying customers.

Additionally, as part of energy education and awareness, the program continues to focus on providing opportunities to encourage the conservation of energy and for the promotion of energy efficiency through local school systems by partnering with high schools' driver's education classes. This portion of the program will provide energy efficiency and electric vehicle ("EV") training curriculum and educational materials. In 2022, 556 student drivers participated in the EV education portion of this program and received the training and curriculum. Each student was

afforded an opportunity in their class to drive the EV at least three times. As compared to 2021, the slightly lower participation in 2022 was due to the school district looking at potentially redesigning their drivers' education program.

Tampa Electric continued to work on developing an effective platform that will provide quality information on Renewable Energy. The company has partnered with a vendor that provides a one-stop shop for customers that are considering solar energy and projects the addition of this education material to be available to customers during 2023.

Agency Outreach:

Tampa Electric is involved on many fronts with different agencies that provide assistance or guidance to ensure that low-income / vulnerable customers have an equitable access to the company's DSM programs. In 2022, these activities included partnerships with:

American Council for an Energy Efficient Economy ("ACEEE"). From 2019 through the beginning of 2022, the company participated in an energy equity committee through the ACEEE to assist in the development of city, state, and utility scorecards for measuring and benchmarking energy equity. In addition, annually the company provides a variety information regarding the company's DSM Programs to the ACEEE through several surveys throughout the year.

Consortium for Energy Efficiency ("CEE"). In 2022, the company started its participation in a three-year study for Energy Equity through the CEE. The purpose of this study is to convene broad participation from behavior professionals within the energy efficiency industry to build consensus on characterizing and defining hard to reach audiences, and to ensure that program administrators are equitably serving all their customers, including audiences such as income eligible, low-English proficient, rural residential, and small/medium sized businesses. Through this study, the company collaborates with other trusted and respected US and Canadian program administrators with both equity and behavior responsibilities. The study also provides member sponsors with the opportunity to learn successful approaches to engaging precisely defined underserved customers in both the electric and natural gas sectors.

Distributed Energy Financial Group's Executive Advisory Panel of the Equity in the Clean Energy Economy ("ECEE"). In 2022, the company began sponsoring the Collaborative which examines the impacts of distributed and renewable energy on the grid, the traditional utility business model, and customers, especially around affordability and access with particular attention provided to ensure that at-risk customers

share the benefits of the transition to a clean energy economy. This sponsorship focuses on improving customer options, experience, and service to low-income customers through the low-Income Energy Issues Forum (LIEIF).

Center of Economic Development Organization. In 2022, the company joined in a new partnership early with The Center of Economic Development Organization to create awareness and provide education to veterans, disabled customers, seniors, and low-income homeowners. This partnership allows the company to be in several communities working with other community volunteers to deliver energy education and installation of the weatherization program. Through this partnership for 2022, we were able to educate 300 customers in addition to weatherizing their homes with energy efficiency measures including duct seal and insulation. Some examples of the focused projects that support this partnership were the participation in the FIX MY BLOCK and Community Revitalization initiatives.

Tampa Housing Authority. In 2022, the company coordinated efforts with Tampa Housing Authority to for the delivery of Energy Education and Neighborhood Weatherization measures to 11 different communities reaching 1,200 customers.

Weatherization:

Tampa Electric's Neighborhood Weatherization program offers a comprehensive energy efficiency kit and increased energy education, with the addition of the walk-through energy audit that was added in the most recent DSM Plan, to assist low-income residential customers in becoming more energy efficient. The comprehensive energy efficiency kit includes the following 12 energy savings measures, in addition to ceiling insulation and/or duct sealing depending on the needs of the home:

- Six light emitting diode ("LED") lamps
- HVAC filter whistle
- Installation of up to three low flow faucet aerators
- Installation of up to two low flow shower heads
- Installation of a wall plate thermometer
- A water heating temperature check card for adjustment of the water heater
- Installation of hot water pipe insulation, if necessary
- Installation of weather stripping, if necessary
- Installation of caulking to seal windows, if necessary
- Installation of sealing foam to seal air infiltration issues, if necessary
- Refrigerator coil cleaning brush

- Installation of ceiling insulation, if needed
- Repair of duct seal, if needed
- Walk-Through Energy Audit
- Energy savings education handout

In 2022, Tampa Electric provided 9,159 customers with the weatherization of their homes. It is important to note that homes can be single family, manufactured, mobile or multi-family homes. For qualification, the company uses Florida Census Tract data to determine eligibility and the customer does not need to own the home. On a historical basis, Tampa Electric has performed weatherization on 70,752 homes.

Pilot Programs and Research and Development Updates

LED Street Light Conversion Program, five year program - update:

Tampa Electric is nearing the completion of the Light Emitting Diode ("LED") Street and Outdoor Lighting conversion program. In 2022, the company converted 41,992 street and outdoor lighting luminaires to LED technology as part of this program.

2023. 8.827 For there are remaining luminaires to be converted to complete replacement of all 209,821 luminaires. The company projects that the



remaining luminaires will be converted by April 2023. The company will inform Commission Staff when the program is complete. While this program does not supplement the company's conservation efforts toward achieving the Commission's annual demand and energy goals above, these luminaire replacements contributed the following additional annual and cumulative demand and energy savings at the generator:

2022 Achieveme	ents	Cumulative F	Imulative Program Achievements			
SkW:	0.000 MW	SkW:	0.000 MW			
WkW:	5.976 MW	WkW:	28.603 MW			
AE:	25.445 GWh	AE:	121.793 GWh			

Integrated Renewable Energy System, five year pilot program – update:

The Integrated Renewable Energy System ("IRES") – Pilot Program completed its first full year of operation following its commissioning in 2021. The system consists of 862 kW photovoltaic system located on five carports, five commercial-sized powerpack batteries capable of storing 1,160 kWh of energy, six dual headed level "2" electric vehicle charging systems, and 10 industrial



truck battery charging stations. This pilot program has three main purposes: the first is to evaluate the ability to maximize the demand side management benefits from this integrated system, second is to determine the ideal operating parameters that a commercial or industrial customer would operate this type of system, and third, to use the installation and its associated operational information as an education platform for commercial and industrial customers seeking information on this type of system and its benefits, concerns, and capabilities.



(North end of IRES carport solar array, with commercial batteries)

The following details the lessons learned throughout the first full year of operation:

Fully commission the system, which includes meetings prior to the completed design of the system that include the designer of the system, the prime vendor installing the system, and the company purchasing the system. Tampa Electric discovered that these systems are more flexible in the design phase versus testing ideas post-installation. If the stakeholders had met earlier and determined all of the different capabilities of the system, a complete commissioning test plan could have been developed to test and stress the system with the scheduled scenarios. The company also believes that it would have been easier to accommodate any identified scenarios as part of the initial design. Because this was not completely done, the company had to conduct its own validation and commissioning of the system with the vendor. This process required frequent shutdowns and scheduling changes were not fully

known upfront and would have been much more efficient if it was included as part of the initial design and commissioning.

- Electric vehicle ("EV") charging station fobs brand and type need to be specified with the initial contract. Tampa Electric anticipated being able to utilize the same fobs with the EV chargers that were being installed due to having fobs for this brand previously. The company discovered that the EV chargers that were installed, although the identical brand as others, require different brands of fobs than what were provided.
- Set strict communication guidelines, expectations, and documented procedures with third party vendors beforehand in the written contract. The company has found that third party vendors after the installation are less likely to follow communication procedures that are not included in the written purchase contracts. This may affect the operation of the system including impacting potential changes, updating schedules, testing, etc. In addition, early on all communication should include the prime contractor or O&M provider as applicable.
- Schedule regular inspections of the system. The company experienced fuses blowing frequently on a control circuit and inspected the system. The issue was found to be caused by a loose connection and an improperly sized fuse.
- Be aware of system communications and any internal IT requirements that may conflict. Most solar equipment requires two-way communication, including the batteries and inverters. This two-way communication is required for data acquisition, scheduling, reconfiguration, firmware upgrades, remote servicing, system alerts, etc. to support the integrated renewable system to perform effectively. Tampa Electric identified a significant obstacle with the inability to access the equipment from outside the company's internal communication system due to the company's Cyber Security Protocols. The company recommends that a stakeholder from the company's IT department be involved with this type of project from the inception to develop solutions for this communication.
- Be aware of where the system is being interrogated for communication. The company found that when the installation vendor was on-site, downstream of firewall security, they could see the inverters online just fine. However, when offsite and going through the internet or one of the other equipment vendors website portals, the ability to view the equipment operation is temporary or intermittent. Tampa Electric facilitated several meetings with the stakeholders to solve and correct this situation which came down to two issues. The first issue was identified as an internal firewall issue and the second was an incorrect algorithm with one of the equipment vendors website portals.

- Understand how scheduling changes of the battery will be implemented and which party will perform those changed. This is an important component of this pilot program to evaluate the ability to maximize the demand side management benefits. The company has learned that the battery vendor that was selected is the only entity that can change the battery charge/discharge schedule for this system. Tampa Electric identified a variety of scenarios to be conducted over the five-year pilot program to determine these benefits. The company met with the battery vendor to cover these scenarios and to identify how these schedule changes would be done. The vendor proposed using their autonomous site control software as an alternative to manually asking them to make the changes in order for the system to have the best discharge timings. Since the battery vendor lacks a single point of contact, such as a program manager, reaching out to the vendors is very time consuming. As a result, the company chose to move forward with the autonomous site control software. In advance of the system being operational, it would have been ideal to have clarity on the benefits of the company installing their own Modbus/SCADA system to interface with the batteries, allowing Tampa Electric to control the scheduling of the system.
- Understand what is included in the maintenance contract. Tampa Electric learned that services not related to equipment are not included in the equipment warranty. While the contract does include testing once or twice a year as needed, it does not include situations that involve the weather. Two of the solar panels were damaged due to Hurricane Ian. The company chose to leave these two panels off to see how the system would perform and have the panels reinstalled during the next annual maintenance to save on costs.
- Safety should be paramount. Tampa Electric placed safety precaution signage on every one of the system cabinets with the procedures to avoid any potential back feeding of the electrical system. This signage makes all team members and vendors who use the system aware of the potential safety hazards during proper system disconnection. Since this is a carport solar array, recognize that due to the construction of the array has required some asphalt to be replaced due to deterioration.

Commercial Battery Storage, Research and Development - Update:

In the last quarter of 2016, Tampa Electric partnered with the University of South Florida ("USF") College of Engineering to assist in the performance of this Conservation Research and Development ("CRD") project to evaluate the feasibility of potentially offering a battery storage DSM program for

commercial/industrial customers. This CRD project will evaluate these small to mid-size commercial battery storage installations through research and field study with at least one battery being installed at a commercial/industrial customer's facility. Tampa Electric specified the size of battery for this CRD project to be between 10 kW and 150 kW with the project from inception to completion lasting approximately three-years. The original timeline was to afford enough time to study these batteries and potentially justify a DSM program within the company's 2020-2029 DSM Plan if the results were positive. The original R&D project was projected to cost approximately \$250,000 to achieve the following objectives:

- Evaluate the potential for battery storage for the use of load shifting on demand savings.
- Evaluate the efficiency of load shifting from a battery storage system and the associated control and monitoring system.
- Evaluate the impact on the total energy consumption of the battery and facility when used in a load shifting capacity (versus reliability).
- Evaluate and compare batteries based on performance and cycling tolerance when used in Florida's climate.
- Examine the associated costs from cradle to disposition of battery.
- Evaluate the load profile impact on power vs. capacity tradeoffs.

To achieve these objectives, the small to mid-size Commercial Battery Storage project was broken down into the following four main phases:

- 1. Battery selection
- 2. Identify commercial facilities
- 3. Battery vendor selection
- 4. Installation of storage system

Phase 1 was completed by USF in 2017. Tampa Electric included a copy of the battery research study in the company's annual DSM report that was filed with the Commission on March 1, 2018. In 2017, after completion of the initial portion of the CRD project, the company sought product availability and costs and found that the prices were greater than the allocation of funds allowed as an R&D program and placed the pursuit of this CRD project on hold until the prices of the batteries dropped to an acceptable level. The company's Commercial Energy Management Team ("CEMT") has continued to keep a pulse on the market and monitors the prices of the batteries to continue the CRD project. In addition to monitoring the prices of the batteries to continue the CRD project, Tampa Electric also filed for an increase in the allowable funds to be used for CRD in the company's most recently filed and Commission approved 2020-2029 DSM Plan. In the 2020-2029 DSM Plan, the program costs were increased on an annual basis from \$200,000 per year to \$400,000 per year and increased the five-year period total allowable costs from \$1,000,000 to \$2,000,000.

For 2022, the company has been monitoring the costs of applicable battery systems and believes the cost of these systems will enable the company to install

two systems, at separate customer locations, in 2023. Below are the specific items the company completed in 2022 in preparation of completing the three final phases of this CRD project.

- Tampa Electric continued to conduct interviews with battery storage vendors in 2022 to assess the state and cost of the technology. The CEMT contacted twelve suppliers. It was challenging to find the vendor with the right products and services, providing a turnkey solution with supportive analytic software.
- The company has learned much more about battery technology to be used in commercial applications. Specifically, about lithium iron phosphate batteries (LiFePO4 or LFP), which have several advantages over other lithium batteries. Benefits include a longer lifespan, lower maintenance, exceptional safety, and light weight, as well as increased discharge and charge efficiency. One drawback of LiFePO4 batteries is they are not the most affordable on the market, although they do appear to have better lifespans and reduced ongoing maintenance costs.
- The limitations of the supply chain had an impact on battery storage, for example. The root reasons of the problems are well known, and they include COVID-19-related logistical constraints and escalating lithium battery raw material prices. Due to a lack of raw materials and inventory being shipped from outside the United States, most vendors currently have an availability window of nine months to a year.
- The costs of batteries still tend to vary greatly, including variation for batteries from outside the United States as compared to those vendors who have stock in the United States.
- A benefit of the ongoing monitoring of potential sites and batteries over the past couple of years is seeing the load changes at potential customer facilities. All of the potential customer sites the company has been monitoring have had substantial shifts in their load from pre-COVID to now post-COVID operations, which required the company to add more customer facilities to be examined for potential eligibility in this project.
- The company has identified that the warranties offered by battery vendors vary quite greatly in what they cover in respect to the equipment as well as performance.
- The company is seeing that customer facilities that install larger kW rated system, due to either capacity or voltage requirements, require the transformer supplying power to the facility/battery to be changed to a larger rating. In addition, due to the larger size, may require the battery to be housed outside in

the elements or in containers which could be a benefit or a drawback depending on availability of space.

Heat Pump Water Heater, Research and Development - Update:

Tampa Electric continues to have this CRD on hold due to the Energy Planner team members focusing on getting the new Prime Time Plus program implemented. This CRD was initially designed to evaluate the inclusion of residential heat pump water heaters/hybrid water heaters into the Energy Planner Program as an electric thermal storage device. In addition, with the company currently working on the development of the technical potential study that will support the 2025-2034 DSM goals for the company, this CRD project may be chosen to change direction or to abandon based upon the outcome of the study.

2022 DSM Program Achievements

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

Demand Side Management Annual Report									
Utility:Tampa Electric CompanyProgram Name:RESIDENTIAL ALTERNATE AUDIT (aka Walk-Thru Audit or EA Free)Program Start Date:May 1981Reporting Period:Annual 2022									
а	b	С	d	е	f	g	h	i	j
	Total Number of	Total Number of Eligible	Total Number of Projected	Projected Cumulative Number of Program	Projected Cumulative Penetration Level %	Actual Annual Number of Program	Actual Cumulative Number of Program	Actual Cumulative Penetration Level %	Actual Participation Over (Under) Projected Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	628,392	8,400	8,400	1.3%	8,304	8,304	1.3%	(96)
2016	640,090	640,090	8,400	16,800	2.6%	6,902	15,206	2.4%	(1,594)
2017	651,770	651,770	7,800	24,600	3.8%	5,501	20,707	3.2%	(3,893)
2018	662,917	662,917	6,000	30,600	4.6%	7,667	28,374	4.3%	(2,226)
2019	677,922	677,922	6,500	37,100	5.5%	6,786	35,160	5.2%	(1,940)
2020	691,719	691,719	5,000	42,100	6.1%	1,514	36,674	5.3%	(5,426)
2021	704,770	704,770	3,700	45,800	6.5%	1,035	37,709	5.4%	(8,091)
2022 2023 2024	721,172	721,172	4,400	50,200	7.0%	4,308	42,017	5.8%	(8,183)

Annual Demand and Energy Savings	Participants	4,308			
	Per I	nstallation	Progra	m Total	
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	0.10	0.10	413.57	443.76	
Winter kW Reduction	0.13	0.14	547.12	587.06	
Annual kWh Reduction	625	660	2,692,500	2,843,280	
Annual Demand and Energy Saving		Participants	4,308		
			Program Total		
			@ Meter	@ Generator	
Summer kW Reduction			413.57	443.76	
Winter kW Reduction			547.12	587.06	
Annual kWh Reduction			2,692,500	2,843,280	
Utility Cost per Installation (\$):			523		
Total Program Cost of the Utility (\$000	2,254.7				
Net Benefits of Measures Installed Du	(1,613.7)				
Note 1: Demand and energy savings r	not included in achie	vements			

Demand Side Management Annual Report									
Utility:		Tampa Electri	c Company						
Program N Program S Reporting	start Date:	RESIDENTIAI June 1996 Annual 2022	CUSTOMER	ASSISTED AUD	ITS				
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	628,392	1,390	1,390	0.2%	658	658	0.1%	(732)
2016	640,090	640,090	1,200	2,590	0.4%	1,017	1,675	0.3%	(915)
2017	651,770	651,770	500	3,090	0.5%	409	2,084	0.3%	(1,006)
2018	662,917	662,917	800	3,890	0.6%	27,734	29,818	4.5%	25,928
2019	677,922	677,922	35,000	38,890	5.7%	57,370	87,188	12.9%	48,298
2020	691,719	691,719	42,000	80,890	11.7%	59,766	146,954	21.2%	66,064
2021	704,770	704,770	60,000	140,890	20.0%	68,540	215,494	30.6%	74,604
2022 2023 2024	721,172	721,172	75,000	215,890	29.9%	109,802	325,296	45.1%	109,406

2024

Annual Demand and Energy Savings - 20	Plan	Participants	109,802		
	Per Installation				
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	0.07	0.08	7,905.74	8,482.86	
Winter kW Reduction	0.10	0.10	10,431.19	11,192.67	
Annual kWh Reduction	469	495	51,497,138	54,380,978	
Annual Demand and Energy Savings, Not		Participants	109,802		
	Program Total				
			@ Meter	@ Generator	
Summer kW Reduction			7,905.74	8,482.86	
Winter kW Reduction			10,431.19	11,192.67	
Annual kWh Reduction			51,497,138	54,380,978	
Utility Cost per Installation (\$):			3		
Total Program Cost of the Utility (\$000):	370.3				
Net Benefits of Measures Installed During R	204.0				
Note 1: Demand and energy savings not inc	cluded in achie	vements			

TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: MARCH 1, 2023

			D	emand Side Man	agement Annual	Report			
Utility:Tampa Electric CompanyProgram Name:RESIDENTIAL RCS AUDIT (Computer Assisted - Paid)Program Start Date:January 1981Reporting Period:Annual 2022									
а	b	С	d	e	f	g	h	i	j A stual
				Projected	Projected	Actual	Actual	Actual	Actual Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	628,392	0	0	0.0%	5	5	0.0%	5
2016	640,090	640,090	4	4	0.0%	9	14	0.0%	10
2017	651,770	651,770	10	14	0.0%	4	18	0.0%	4
2018	662,917	662,917	10	24	0.0%	2	20	0.0%	(4)
2019	677,922	677,922	1	25	0.0%	1	21	0.0%	(4)
2020	691,719	691,719	1	26	0.0%	0	21	0.0%	(5)
2021	704,770	704,770	1	27	0.0%	0	21	0.0%	(6)
2022	721,172	721,172	4	31	0.0%	2	23	0.0%	(8)
2023									
2024									

- 2020-2029 DSM	Plan	Participants	2	
Per Ir	nstallation	Program	n Total	
@ Meter	@ Generator	@ Meter	@ Generator	
0.10	0.10	0.19	0.21	
0.13	0.14	0.25	0.27	
625	660	1,250	1,320	
, Note 1		Participants 2		
		@ Meter	@ Generator	
		0.19	0.21	
		0.25	0.27	
		1,250	1,320	
		455		
:		0.9		
ing Reporting Peric	, , ,	(1.4)		
	Per In @ Meter 0.10 0.13 625 , Note 1	0.10 0.10 0.13 0.14 625 660	Per Installation Program @ Meter @ Generator @ Meter 0.10 0.10 0.19 0.13 0.14 0.25 625 660 1,250 , Note 1 Participants Program @ Meter 0.19 0.25 0.19 0.25 1,250 . 0.19 0.25 1,250 1,250 1,250 . 9 19 0.25 1,250 1,250 . 0.19 0.25 . 0.9 1,250 . 0.9 0.9 ng Reporting Period (\$000): (1.4)	

			D	emand Side Ma	nagement Annual	Report			
Utility: Program N Program S Reporting F	tart Date:	Tampa Electri RESIDENTIAI November 198 Annual 2022	_ CEILING INSU	JLATION					
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	494,802	7,200	7,200	1.5%	3,057	3,057	0.6%	(4,143)
2016	640,090	491,745	2,760	9,960	2.0%	1,293	4,350	0.9%	(5,610)
2017	651,770	490,452	1,255	11,215	2.3%	945	5,295	1.1%	(5,920)
2018	662,917	489,507	1,300	12,515	2.6%	594	5,889	1.2%	(6,626)
2019	677,922	488,913	550	13,065	2.7%	595	6,484	1.3%	(6,581)
2020	691,719	488,318	450	13,515	2.8%	265	6,749	1.4%	(6,766)
2021	704,770	488,053	400	13,915	2.9%	382	7,131	1.5%	(6,784)
2022	721,172	487,671	475	14,390	3.0%	425	7,556	1.5%	(6,834)
2023									

Annual Demand and Energy Savings	- 2020-2029 DSM	Plan	Participants	425		
	Per In	stallation	Program	m Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	0.32	0.35	136.85	146.84		
Winter kW Reduction	0.42	0.45	180.2	193.35		
Annual kWh Reduction	673	711	286,025	302,042		
Annual Demand and Energy Savings	ual Demand and Energy Savings					
			Program	m Total		
			@ Meter	@ Generator		
Summer kW Reduction			136.85	146.84		
Winter kW Reduction			180.20	193.35		
Annual kWh Reduction			286,025	302,042		
Utility Cost per Installation (\$):			399			
Total Program Cost of the Utility (\$000)	:		169.7			
Net Benefits of Measures Installed Duri	ng Reporting Perio	d (\$000):	55.2			

TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: MARCH 1, 2023

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				Demand Side M	lanagement Annual	Report			
Utility: Program Na Program St Reporting F	art Date:	Tampa Electri RESIDENTIA September 19 Annual 2022	L DUCT REPAIL	R					
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	480,750	1,680	1,680	0.3%	1,895	1,895	0.4%	215
2016	640,090	478,855	2,040	3,720	0.8%	1,293	3,188	0.7%	(532)
2017	651,770	477,562	1,530	5,250	1.1%	1,176	4,364	0.9%	(886)
2018	662,917	476,386	1,300	6,550	1.4%	1,997	6,361	1.3%	(189)
2019	677,922	474,389	1,000	7,550	1.6%	1,078	7,439	1.6%	(111)
2020	691,719	473,311	500	8,050	1.7%	251	7,690	1.6%	(360)
2021	704,770	473,060	385	8,435	1.8%	267	7,957	1.7%	(478)
2022	721,172	472,793	300	8,735	1.8%	420	8,377	1.8%	(358)
2023									

Annual Demand and Energy Savings - 20	20-2029 DSM	Plan	Participants	420			
	Per I	nstallation	Program	m Total			
	@ Meter	@ Generator	@ Meter	@ Generator			
Summer kW Reduction	0.20	0.21	83.58	89.68			
Winter kW Reduction	0.33	0.36	139.86	150.07			
Annual kWh Reduction	696	735	292,320	308,690			
Annual Demand and Energy Savings		Participants 420					
	and benand and Energy Savings						
			@ Meter	@ Generator			
Summer kW Reduction			83.58	89.68			
Winter kW Reduction			139.86	150.07			
Annual kWh Reduction			292,320	308,690			
Utility Cost per Installation (\$):			213				
Total Program Cost of the Utility (\$000):			89.4				
Net Benefits of Measures Installed During F	Net Benefits of Measures Installed During Reporting Period (\$000):						

TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: MARCH 1, 2023

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				Demand Side M	anagement Annua	l Report			
Utility:Tampa Electric CompanyProgram Name:ENERGY AND RENEWABLE EDUCATION, AWARENESS AND AGENCY OUTREACHProgram Start Date:May 2011Reporting Period:Annual 2022									
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	628,392	2,000	2,000	0.3%	1,412	1,412	0.2%	(588)
2016	640,090	640,090	2,000	4,000	0.6%	461	1,873	0.3%	(2,127)
2017	651,770	651,770	500	4,500	0.7%	975	2,848	0.4%	(1,652)
2018	662,917	662,917	750	5,250	0.8%	806	3,654	0.6%	(1,596)
2019	677,922	677,922	700	5,950	0.9%	1,304	4,958	0.7%	(992)
2020	691,719	691,719	750	6,700	1.0%	445	5,403	0.8%	(1,297)
2021	704,770	704,770	1,400	8,100	1.1%	810	6,213	0.9%	(1,887)
2022	721,172	721,172	2,200	10,300	1.4%	2,488	8,701	1.2%	(1,599)
2023									

Annual Demand and Energy Savings	- 2020-2029 DSM	Plan	Participants	2,488		
	Per In	stallation	Progra	m Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	0.04	0.04	102.01	109.45		
Winter kW Reduction	0.05	0.05	124.40	133.48		
Annual kWh Reduction	366	386	910,608	961,602		
Annual Demand and Energy Savings	ual Demand and Energy Savings					
	and Demand and Energy davings					
			@ Meter	@ Generator		
Summer kW Reduction			102.01	109.45		
Winter kW Reduction			124.40	133.48		
Annual kWh Reduction			910,608	961,602		
Utility Cost per Installation (\$):			62			
Total Program Cost of the Utility (\$000):	:		153.9			
Net Benefits of Measures Installed Durin	ng Reporting Perio	od (\$000):	(263.8)			

				Demand Side	Management Annual I	Report			
Utility: Program N Program S Reporting F	tart Date:	Tampa Electri ENERGY STA June 2017 Annual 2022		LTI-FAMILY RES	IDENCES				
а	b	С	d	е	f	g	h	i	j Actual
		Total	Total	Projected Cumulative	Projected Cumulative	Actual Annual	Actual Cumulative	Actual Cumulative	Participation Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	0	0	0	0	0.0%	0	0	0.0%	0
2016	0	0	0	0	0.0%	0	0	0.0%	0
2017	201,074	3,820	600	600	15.7%	0	0	0.0%	(600)
2018	207,026	5,952	600	1,200	20.2%	0	0	0.0%	(1,200)
2019	210,907	3,881	250	1,450	37.4%	264	264	6.8%	(1,186)
2020	215,519	4,612	0	1,450	31.4%	0	264	5.7%	(1,186)
2021	236,621	6,025	0	1,450	24.1%	0	264	4.4%	(1,186)
2022 2023	243,555	6,893	0	1,450	21.0%	0	264	3.8%	(1,186)

Annual Demand and Energy Savings	- 2020-2029 DSM	Plan	Participants	0
	Per	Installation	Progra	m Total
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.44	0.47	0.00	0.00
Winter kW Reduction	0.30	0.32	0.00	0.00
Annual kWh Reduction	1,460	1,542	0	0
Annual Demand and Energy Savings			Participants	0
Annual Demana and Energy Cavings			i unioipunio	0
Annual Demana and Energy Cavings				m Total
				•
Summer kW Reduction			Progra	m Total
			Progra @ Meter	m Total @ Generator

Utility Cost per Installation (\$):0Total Program Cost of the Utility (\$000):(0.1)Net Benefits of Measures Installed During Reporting Period (\$000):1.4

				Demand Side	Management Annual	Report			
Utility:Tampa Electric CompanyProgram Name:ENERGY STAR for NEW HOMES (formerly RESIDENTIAL NEW CONSTRUCTION)Program Start Date:Closed New Construction and opened ENERGY STAR November 2015Reporting Period:Annual 2022									
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	4,361	2,400	2,400	55.0%	2,494	2,494	57.2%	94
2016	640,090	3,870	1,200	3,600	93.0%	403	2,897	74.9%	(703)
2017	651,770	2,953	1,000	4,600	155.8%	640	3,537	119.8%	(1,063)
2018	662,917	9,544	1,000	5,600	58.7%	823	4,360	45.7%	(1,240)
2019	677,922	9,929	1,000	6,600	66.5%	849	5,209	52.5%	(1,391)
2020	691,719	9,798	1,000	7,600	77.6%	858	6,067	61.9%	(1,533)
2021	704,770	9,931	1,160	8,760	88.2%	1,006	7,073	71.2%	(1,687)
2022 2023	721,172	8,706	720	9,480	108.9%	708	7,781	89.4%	(1,699)

Annual Demand and Energy Savin	gs - 2020-2029 DSM	Plan	Participants	708	
	Per I	nstallation	Prograi	m Total	
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	1.98	2.12	1,401.84	1,504.17	
Winter kW Reduction	0.60	0.64	425.51	456.57	
Annual kWh Reduction	5,378	5,679	3,807,624	4,020,851	
Annual Demand and Energy Savin	ual Demand and Energy Savings				
	Program	m Total			
			@ Meter	@ Generator	
Summer kW Reduction			1,401.84	1,504.17	
Winter kW Reduction			425.51	456.57	
Annual kWh Reduction			3,807,624	4,020,851	
Utility Cost per Installation (\$):			1,022		
Total Program Cost of the Utility (\$00	00):		723.3		
Net Benefits of Measures Installed D	urina Reportina Perio	d (\$000):	2,330.0		

j Actual al Participatio ative Over (Unde ation Projected % Participants 100] (h-e)
al Participation ative Over (Unde ation Projected % Participants
100] (h-e)
0.0%
).1% 118).2% 293

Annual Demand and Energy Savings - A	2020-2029 DSIVI Pla	m	Participants	1,193
	Per In	stallation	Progra	m Total
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.72	1.84	2,049.57	2,199.19
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	3,162	3,339	3,772,266	3,983,513

Annual Demand and Energy Savings	Participants	1,193
	Progra	m Total
	@ Meter	@ Generator
Summer kW Reduction	2,049.57	2,199.19
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	3,772,266	3,983,513
Utility Cost per Installation (\$):	386	
Total Program Cost of the Utility (\$000):	459.9	
Net Benefits of Measures Installed During Reporting Period (\$000):	76.4	

	Demand Side Management Annual Report								
Utility: Program N Program S Reporting	Start Date:	Tampa Electric C ENERGY STAR November 2020 Annual 2022		S					
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015									
2016									
2017									
2018				D					
2019	004 740	004 740	-	0	as started on Nover		40	0.00/	07
2020	691,719	691,719	5	5	0.0%	42	42	0.0%	37
2021	704,770	704,770	1,000	1,000	0.1%	950	950	0.1%	(50)
2022	721,172	721,172	1,040	1,040	0.1%	1,403	1,403	0.2%	363
2023									

Annual Demand and Energy Savings - 2	Participants	1,403			
	Per In:	stallation	Program Total		
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	0.24	0.25	331.11	355.28	
Winter kW Reduction	0.00	0.00	0.00	0.00	
Annual kWh Reduction	262	277	367,586	388,171	
Annual Demand and Energy Savings		Participants	1,403		
			Progra	m Total	
			@ Meter	@ Generator	
Summer kW Reduction			331.11	355.28	
Winter kW Reduction			0.00	0.00	
Annual kWh Reduction			367,586	388,171	
Utility Cost per Installation (\$):			100		
Total Program Cost of the Utility (\$000):			140.2		
Net Benefits of Measures Installed During	29.0				

	Demand Side Management Annual Report								
Utility: Program Na Program Sta Reporting P	tart Date:	Tampa Electric RESIDENTIAL July 2000 Annual 2022	c Company L HEATING ANI	D COOLING					
а	b	С	d	е	f	g	h	i	j
		Total	Total	Projected Cumulative	Projected Cumulative	Actual Annual	Actual Cumulative	Actual Cumulative	Actual Participation Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	628,392	3,840	3,840	0.6%	5,214	5,214	0.8%	1,374
2016	640,090	640,090	3,480	7,320	1.1%	3,693	8,907	1.4%	1,587
2017	651,770	651,770	4,200	11,520	1.8%	3,341	12,248	1.9%	728
2018	662,917	662,917	4,000	15,520	2.3%	3,371	15,619	2.4%	99
2019	677,922	677,922	3,500	19,020	2.8%	3,638	19,257	2.8%	237
2020	691,719	691,719	3,400	22,420	3.2%	3,578	22,835	3.3%	415
2021	704,770	704,770	3,230	25,650	3.6%	2,839	25,674	3.6%	24
2022 2023 2024	721,172	721,172	2,930	28,580	4.0%	2,643	28,317	3.9%	(263)

Annual Demand and Energy Savings - 20	Plan	Participants 2,643		
	Per In	stallation	Progra	m Total
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.20	0.21	515.39	553.01
Winter kW Reduction	0.21	0.22	547.10	587.04
Annual kWh Reduction	394	416	1,041,342	1,099,657
Annual Demand and Energy Savings	Participants 2,643			
			Progra	m Total
			@ Meter	@ Generator
Summer kW Reduction			515.39	553.01
Winter kW Reduction			547.10	587.04
Annual kWh Reduction			1,041,342	1,099,657
Utility Cost per Installation (\$):			157	
Total Program Cost of the Utility (\$000):	414.6			
Net Benefits of Measures Installed During F	36.2			

	Demand Side Management Annual Report								
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electri NEIGHBORH March 2008 Annual 2022	c Company OOD WEATHEI	RIZATION					
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	109,703	6,600	6,600	6.0%	7,912	7,912	7.2%	1,312
2016	640,090	111,745	7,250	13,850	12.4%	5,495	13,407	12.0%	(443)
2017	651,770	113,784	6,250	20,100	17.7%	6,550	19,957	17.5%	(143)
2018	662,917	115,730	7,000	27,100	23.4%	7,389	27,346	23.6%	246
2019	677,922	118,350	7,000	34,100	28.8%	6,740	34,086	28.8%	(14)
2020	691,719	120,758	6,500	40,600	33.6%	1,760	35,846	29.7%	(4,754)
2021	704,770	123,037	6,050	46,650	37.9%	2,923	38,769	31.5%	(7,881)
2022 2023	721,172	125,900	7,940	54,590	43.4%	9,159	47,928	38.1%	(6,662)

Annual Demand and Energy Savings -	Participants	9,159				
	Per In	stallation	Prograi	m Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	0.53	0.57	4,890.91	5,247.94		
Winter kW Reduction	0.64	0.69	5,889.24	6,319.15		
Annual kWh Reduction	1,932	2,040	17,695,188	18,686,119		
Annual Demand and Energy Savings		Participants 9,159				
			@ Meter	@ Generator		
Summer kW Reduction			4,890.91	5,247.94		
Winter kW Reduction			5,889.24	6,319.15		
Annual kWh Reduction			17,695,188	18,686,119		
Utility Cost per Installation (\$):			191			
Total Program Cost of the Utility (\$000):			1,746.0			
Net Benefits of Measures Installed Durin	g Reporting Perio	d (\$000):	(9,854.6)			

	Demand Side Management Annual Report								
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electri ENERGY PLA September 20 Annual 2022	ANNER						
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	628,392	1,000	1,000	0.2%	1,088	1,088	0.2%	88
2016	640,090	640,090	1,000	2,000	0.3%	910	1,998	0.3%	(2)
2017	651,770	651,770	1,000	3,000	0.5%	574	2,572	0.4%	(428)
2018	662,917	662,917	1,000	4,000	0.6%	747	3,319	0.5%	(681)
2019	677,922	677,922	1,250	5,250	0.8%	897	4,216	0.6%	(1,034)
2020	691,719	691,719	750	6,000	0.9%	138	4,354	0.6%	(1,646)
2021	704,770	704,770	900	6,900	1.0%	98	4,452	0.6%	(2,448)
2022	721,172	721,172	650	7,550	1.0%	341	4,793	0.7%	(2,757)
2023									

Per In @ Meter	stallation	Drogro	T ()			
@ Meter		Program Total				
S MELEI	@ Generator	@ Meter	@ Generator			
2.01	2.15	684.39	734.35			
3.13	3.36	1,068.69	1,146.71			
1,156	1,221	394,196	416,271			
Annual Demand and Energy Savings, Note 1						
		Progra	m Total			
		@ Meter	@ Generator			
		684.39	734.35			
		1,068.69	1,146.71			
		394,196	416,271			
		657				
Utility Cost per Installation (\$) Note 1: Total Program Cost of the Utility (\$000):						
Net Benefits of Measures Installed During Reporting Period (\$000):						
Note 1: Utility costs based upon total program costs and total participatio						
	3.13 1,156 Note 1 g Reporting Peric	3.13 3.36 1,156 1,221 Note 1 g Reporting Period (\$000):	3.13 3.36 1,068.69 1,156 1,221 394,196 Note 1 Participants <u>Program</u> @ Meter 684.39 1,068.69 394,196 657 2,765.1 3,232.5			

				Demand Side M	anagement Annu	al Report			
Utility:Tampa Electric CompanyProgram Name:RESIDENTIAL PRIME TIME PLUS (Residential Load Management)Program Start Date:November 2020Reporting Period:Annual 2022									
а	b	С	d	е	f	g	h	i	j
Year 2015 2016 2017 2018	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2019 2020				Program w	as started on Nov	rember 2, 2020			
2021					0 0	gram in December	2022		
2022 2023 2024	721,172	721,172	15	15	0.0%	1	1	0.0%	(14)

Annual Demand and Energy Savings	s - 2020-2029 DSM	Plan	Participants	1
	Per In	stallation	Progra	im Total
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.93	2.07	1.93	2.07
Winter kW Reduction	1.89	2.03	1.89	2.03
Annual kWh Reduction	0	0	0	
Annual Demand and Energy Savings	Participants	1		
			Progra	im Total
			@ Meter	@ Generator
Summer kW Reduction			1.93	2.07
Winter kW Reduction			1.89	2.03
Annual kWh Reduction			0	0
Utility Cost per Installation (\$) Note 1:			221,131	
Total Program Cost of the Utility (\$000)):		221.1	
Net Benefits of Measures Installed Dur	0.1			
Note 1: Utility costs based upon total p	rogram costs and to	otal participation		

	Demand Side Management Annual Report									
Utility: Program Na Program Sta Reporting P	art Date:	Tampa Electri RESIDENTIAI March 2008 Annual 2022	c Company L WINDOW RE	PLACEMENT						
а	b	С	d	е	f	g	h	i	j	
				Projected	Projected	Actual	Actual	Actual	Actual Participation	
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)	
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected	
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants	
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)	
2015	628,392	619,895	1,608	1,608	0.3%	1,811	1,811	0.3%	203	
2016	640,090	629,783	1,584	3,192	0.5%	1,417	3,228	0.5%	36	
2017	651,770	640,046	1,800	4,992	0.8%	1,482	4,710	0.7%	(282)	
2018	662,917	649,710	1,600	6,592	1.0%	1,817	6,527	1.0%	(65)	
2019	677,922	662,898	1,800	8,392	1.3%	1,878	8,405	1.3%	13	
2020	691,719	674,817	1,775	10,167	1.5%	1,875	10,280	1.5%	113	
2021	704,770	685,993	1,400	11,567	1.7%	1,176	11,456	1.7%	(111)	
2022	721,172	701,219	1,100	12,667	1.8%	1,051	12,507	1.8%	(160)	
2023										

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Annual Demand and Energy Savings - 20	020-2029 DSM	Plan	Participants	1,051
	Per In	stallation	Progra	m Total
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.13	0.14	140.83	151.11
Winter kW Reduction	0.41	0.44	435.11	466.88
Annual kWh Reduction	235	248	246,985	260,816
Annual Demand and Energy Savings		Participants	1,051	
			Progra	m Total
			@ Meter	@ Generator
Summer kW Reduction			140.83	151.11
Winter kW Reduction			435.11	466.88
Annual kWh Reduction			246,985	260,816
Utility Cost per Installation (\$):			188	
Total Program Cost of the Utility (\$000):			197.2	
Net Benefits of Measures Installed During F	Reporting Perio	od (\$000):	56.9	

			De	emand Side Mar	nagement Annua	al Report	Demand Side Management Annual Report									
Utility: Program N Program Si Reporting F	Start Date:	Tampa Electric FREE COMME July 1983 Annual 2022	ic Company ERCIAL/INDUS	TRIAL AUDIT												
а	b	С	d	е	f	g	h	i	j Actual							
				Projected	Projected	Actual	Actual	Actual	Participation							
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)							
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected							
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants							
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)							
2015	80,277	80,277	888	888	1.1%	913	913	1.1%	25							
2016	80,875	80,875	860	1,748	2.2%	764	1,677	2.1%	(71)							
2017	81,532	81,532	870	2,618	3.2%	1,211	2,888	3.5%	270							
2018	81,740	81,740	1,200	3,818	4.7%	797	3,685	4.5%	(133)							
2019	82,359	82,359	800	4,618	5.6%	866	4,551	5.5%	(67)							
2020	83,332	83,332	500	5,118	6.1%	238	4,789	5.7%	(329)							
2021	84,093	84,093	400	5,518	6.6%	101	4,890	5.8%	(628)							
2022	89,415	89,415	700	6,218	7.0%	766	5,656	6.3%	(562)							
2023																
2024																

Annual Demand and Energy Savings - 20	20-2029 DSM	Plan	Participants	766
	Per Ins	stallation	Progra	m Total
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.09	0.10	71.24	76.22
Winter kW Reduction	0.09	0.10	72.00	77.04
Annual kWh Reduction	625,822	658,365		
Annual Demand and Energy Savings, No	Participants 766			
			Progra	m Total
			@ Meter	@ Generator
Summer kW Reduction			71.24	76.22
Winter kW Reduction			72.00	77.04
Annual kWh Reduction			625,822	658,365
Utility Cost per Installation (\$):			405	
Total Program Cost of the Utility (\$000):			310.5	
Net Benefits of Measures Installed During F	(139.8)			
Note 1: Demand and energy savings not inc	cluded in achiev	vements		

	Demand Side Management Annual Report									
Utility:Tampa Electric CompanyProgram Name:COMPREHENSIVE COMMERCIAL/INDUSTRIAL AUDITProgram Start Date:May 1981Reporting Period:Annual 2022										
а	b	С	d	е	f	g	h	i	j	
				Projected	Projected	Actual	Actual	Actual	Actual Participation	
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)	
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected	
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants	
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)	
2015	80,277	80,277	6	6	0.0%	1	1	0.0%	(5)	
2016	80,875	80,875	10	16	0.0%	4	5	0.0%	(11)	
2017	81,532	81,532	8	24	0.0%	0	5	0.0%	(19)	
2018	81,740	81,740	4	28	0.0%	1	6	0.0%	(22)	
2019	82,359	82,359	2	30	0.0%	1	7	0.0%	(23)	
2020	83,332	83,332	1	31	0.0%	0	7	0.0%	(24)	
2021	84,093	84,093	1	32	0.0%	0	7	0.0%	(25)	
2022	89,415	89,415	1	33	0.0%	0	7	0.0%	(26)	
2023										
2024										

Annual Demand and Energy Savings - 20	ual Demand and Energy Savings - 2020-2029 DSM Plan							
	Per Ins	stallation	Progra	m Total				
	@ Meter	@ Generator	@ Meter	@ Generator				
Summer kW Reduction	0.09	0.10	0.00	0.00				
Winter kW Reduction	0.09	0.10	0.00	0.00				
Annual kWh Reduction	859	0	0					
Annual Demand and Energy Savings, No		Participants 0						
			Progra	m Total				
			@ Meter	@ Generator				
Summer kW Reduction			0.00	0.00				
Winter kW Reduction			0.00	0.00				
Annual kWh Reduction			0	0				
Utility Cost per Installation (\$):			0					
Total Program Cost of the Utility (\$000):			0.0					
Net Benefits of Measures Installed During F Note 1: Demand and energy savings not inc		(· /	(1.8)					

			/	Demand Side Ma	anagement Annua	I Report			Demand Side Management Annual Report									
Utility:Tampa Electric CompProgram Name:COMMERCIAL CHILProgram Start Date:March 2008Reporting Period:Annual 2022																		
а	b	с	d	е	f	g	h	i	j Actual									
				Projected	Projected	Actual	Actual	Actual	Participation									
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)									
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected									
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants									
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)									
2015	80,277	7,733	10	10	0.1%	7	7	0.1%	(3)									
2016	80,875	8,851	10	20	0.2%	5	12	0.1%	(8)									
2017	81,532	8,887	11	31	0.3%	7	19	0.2%	(12)									
2018	81,740	9,023	8	39	0.4%	1	20	0.2%	(19)									
2019	82,359	9,119	9	48	0.5%	5	25	0.3%	(23)									
2020	83,332	9,089	2	50	0.6%	1	26	0.3%	(24)									
2021	84,093	9,174	1	51	0.6%	0	26	0.3%	(25)									
2022	89,415	9,365	3	54	0.6%	0	26	0.3%	(28)									
2023																		
2024																		

Annual Demand and Energy Savings -	2020-2029 DSM	Plan	Participants	0		
	Per In	stallation	Program	n Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	6.16	6.59	0.00	0.00		
Winter kW Reduction	2.48	2.65	0.00	0.00		
Annual kWh Reduction	17,863	18,792	0	0		
Annual Demand and Energy Savings,	nual Demand and Energy Savings, Note 1					
			Program Total			
			@ Meter	@ Generator		
Summer kW Reduction			0.00	0.00		
Winter kW Reduction			0.00	0.00		
Annual kWh Reduction			0	0		
Utility Cost per Installation (\$):			0			
Total Program Cost of the Utility (\$000):			0.1			
Net Benefits of Measures Installed Durin Note 1: Savings from measured data	3.9					

	Demand Side Management Annual Report									
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electri CONSERVAT April 1991 Annual 2022								
а	b	с	d	е	f	g	h	i	j Actual	
				Projected	Projected	Actual	Actual	Actual	Participation	
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)	
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected	
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants	
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)	
2015	80,277	80,277	4	4	0.0%	4	4	0.0%	0	
2016	80,875	80,875	4	8	0.0%	2	6	0.0%	(2)	
2017	81,532	81,532	3	11	0.0%	0	6	0.0%	(5)	
2018	81,740	81,740	2	13	0.0%	0	6	0.0%	(7)	
2019	82,359	82,359	1	14	0.0%	0	6	0.0%	(8)	
2020	83,332	83,332	1	15	0.0%	0	6	0.0%	(9)	
2021	84,093	84,093	0	15	0.0%	0	6	0.0%	(9)	
2022	89,415	89,415	1	16	0.0%	0	6	0.0%	(10)	
2023										
2024										

Note 1: Savings from measured data

Annual Demand and Energy Savings - 2	nual Demand and Energy Savings - 2020-2029 DSM Plan					
	Per In	stallation	Progra	m Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	185.40	198.38	0.00	0.00		
Winter kW Reduction	0.00	0.00	0.00	0.00		
Annual kWh Reduction	20,245	0	0			
Annual Demand and Energy Savings, N		Participants 0				
			Progra	m Total		
			@ Meter	@ Generator		
Summer kW Reduction			0.00	0.00		
Winter kW Reduction			0.00	0.00		
Annual kWh Reduction			0	0		
Utility Cost per Installation (\$):			0			
Total Program Cost of the Utility (\$000):	0.3					
Net Benefits of Measures Installed During	Reporting Perio	d (\$000):	0.5			

			1	Demand Side M	lanagement Annua	I Report			
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electri COMMERCIA July 2000 Annual 2022	ic Company AL COOLING - D	Х					
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	127	127	0.2%	234	234	0.3%	107
2016	80,875	80,875	130	257	0.3%	9	243	0.3%	(14)
2017	81,532	81,532	16	273	0.3%	0	243	0.3%	(30)
2018	81,740	81,740	5	278	0.3%	25	268	0.3%	(10)
2019	82,359	82,359	5	283	0.3%	15	283	0.3%	0
2020	83,332	83,332	15	298	0.4%	14	297	0.4%	(1)
2021	84,093	84,093	15	313	0.4%	44	341	0.4%	28
2022	89,415	89,415	40	353	0.4%	56	397	0.4%	44
2023									

Annual Demand and Energy Savings - 2	ual Demand and Energy Savings - 2020-2029 DSM Plan								
	Per In:	stallation	Progra	m Total					
	@ Meter	@ Generator	@ Meter	@ Generator					
Summer kW Reduction	1.32	1.42	74.09	79.27					
Winter kW Reduction	0.00	0.00	0.00	0.00					
Annual kWh Reduction	173,013	182,010							
Annual Demand and Energy Savings, No	Participants	56							
			Progra	m Total					
			@ Meter	@ Generator					
Summer kW Reduction			74.09	79.27					
Winter kW Reduction			0.00	0.00					
Annual kWh Reduction			173,013	182,010					
Utility Cost per Installation (\$):			226						
Total Program Cost of the Utility (\$000):			12.6						
Net Benefits of Measures Installed During Note 1: Savings from measured data	0.7								

	Demand Side Management Annual Report									
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electri COMMERCIA March 2008 Annual 2022	c Company L DEMAND RE	SPONSE						
а	b	С	d	е	f	g	h	i	j Actual	
				Projected	Projected	Actual	Actual	Actual	Participation	
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)	
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected	
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants	
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)	
2015	80,277	12,302	1	1	0.0%	4	4	0.0%	3	
2016	80,875	12,937	1	2	0.0%	0	4	0.0%	2	
2017	81,532	13,383	1	3	0.0%	0	4	0.0%	1	
2018	81,740	13,730	1	4	0.0%	1	5	0.0%	1	
2019	82,359	13,804	1	5	0.0%	0	5	0.0%	0	
2020	83,332	14,079	1	6	0.0%	0	5	0.0%	(1)	
2021	84,093	14,561	1	7	0.0%	0	5	0.0%	(2)	
2022 2023 2024	89,415	15,066	1	8	0.1%	0	5	0.0%	(3)	

Annual Demand and Energy Savings - 20	020-2029 DSM	Plan	Participants	0		
	Per In	stallation	Program	Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	404.04	432.32	0.00	0.00		
Winter kW Reduction	404.04	432.32	0.00	0.00		
Annual kWh Reduction	0	0				
Annual Demand and Energy Savings, No	Participants	0				
			Program Total			
			@ Meter	@ Generator		
Summer kW Reduction			0.00	0.00		
Winter kW Reduction			0.00	0.00		
Annual kWh Reduction			0	0		
Utility Cost per Installation (\$), Note 2:			32,562			
Total Program Cost of the Utility (\$000):			3,386.4			
Net Benefits of Measures Installed During I Note 1: Savings from measured data	313.8					
Note 2: Utility costs based upon total progra	am costs and to	otal participation				

			I	Demand Side Ma	anagement Annua	l Report			
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electric FACILITY ENE November 202 Annual 2022	ERGY MANAGE	EMENT SYSTEM	1				
а	b	С	d	е	f	g	h	i	j Actual
Year 2015 2016 2017	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Participation Over (Under) Projected Participants (h-e)
2018 2019				Program w:	as started on Nove	mber 2 2020			
2020	83,332	83,332	2	2	0.0%	0	0	0.0%	(2)
2021	84,093	84,093	2	2	0.0%	2	2	200.0%	٥́
2022 2023 2024	89,415	89,415	4	4	0.0%	2	4	400.0%	0

Annual Demand and Energy Savings	- 2020-2029 DSM	Plan	Participants	2		
	Per In:	stallation	Progra	m Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	9.31	9.96	18.61	19.91		
Winter kW Reduction	1.79	1.91	3.57	3.82		
Annual kWh Reduction	317,377	603,379	634,755			
Annual Demand and Energy Savings	Participants	2				
			Progra	m Total		
			@ Meter	@ Generator		
Summer kW Reduction			18.61	19.91		
Winter kW Reduction			3.57	3.82		
Annual kWh Reduction			603,379	634,755		
Utility Cost per Installation (\$):			23,620			
Total Program Cost of the Utility (\$000)	Total Program Cost of the Utility (\$000):					
Net Benefits of Measures Installed Duri Note 1: Savings from measured data	ng Reporting Perio	d (\$000):	7.7			

				Demand Side M	anagement Annual	Report			
Utility: Program Na Program St Reporting P	art Date:	Tampa Electri INDUSTRIAL September 19 Annual 2022	LOAD MANAGI	EMENT					
а	b	С	d	е	f	g	h	i	j
	Total Number of	Total Number of Eligible	Total Number of Projected	Projected Cumulative Number of Program	Projected Cumulative Penetration Level %	Actual Annual Number of Program	Actual Cumulative Number of Program	Actual Cumulative Penetration Level %	Actual Participation Over (Under) Projected Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
#REF!	79,457	820	0	0	0.0%	0	0	0.0%	0
2016	80,875	848	0	0	0.0%	0	0	0.0%	0
2017	81,532	816	0	0	0.0%	0	0	0.0%	0
2018	81,740	954	0	0	0.0%	1	1	0.1%	1
2019	82,359	981	0	0	0.0%	1	2	0.2%	2
2020	83,332	840	1	1	0.1%	1	3	0.4%	2
2021	84,093	850	0	1	0.1%	0	3	0.4%	2
2022 2023 2024	89,415	856	0	1	0.1%	0	3	0.4%	2

Annual Demand and Energy Savings - 2	ual Demand and Energy Savings - 2020-2029 DSM Plan					
	Per In	stallation	Program	n Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	5,060.00	5,414.20	0.00	0.00		
Winter kW Reduction	4,757.00	5,089.99	0.00	0.00		
Annual kWh Reduction	0	0				
Annual Demand and Energy Savings, N	Participants	0				
			Program Total			
			@ Meter	@ Generator		
Summer kW Reduction			0.00	0.00		
Winter kW Reduction			0.00	0.00		
Annual kWh Reduction			0	0		
Utility Cost per Installation (\$), Note 2:			806,596			
Total Program Cost of the Utility (\$000):			23,391.3			
Net Benefits of Measures Installed During Note 1: Savings from measured data	1,334.3					
Note 2: Utility costs based upon total prog	ram costs and to	tal participation				

	Demand Side Management Annual Report									
Utility:Tampa Electric CompanyProgram Name:COMMERCIAL STREET AND OUTDOOR LIGHTING CONVERSIONProgram Start Date:February 2018Reporting Period:Annual 2022										
а	b	С	d	е	f	g	h	i	j	
	Total Number of	Total Number of Eligible	Total Number of Projected	Projected Cumulative Number of Program	Projected Cumulative Penetration Level %	Actual Annual Number of Program	Actual Cumulative Number of Program	Actual Cumulative Penetration Level %	Actual Participation Over (Under) Projected Participants	
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)	
2015 2016										
2017				Program	was started in Feb	oruary 2018				
2018	209,821	209,821	42,115	42,115	20.1%	31,936	31,936	15.2%	(10,179)	
2019	209,821	177,885	40,000	82,115	46.2%	32,366	64,302	36.1%	(17,813)	
2020	209,821	145,519	40,000	122,115	83.9%	25,469	89,771	61.7%	(32,344)	
2021	209,821	120,050	24,000	146,115	121.7%	69,231	159,002	132.4%	12,887	
2022 2023 2024	209,821	50,819	50,819	196,934	387.5%	41,992	200,994	395.5%	4,060	

Annual Demand and Energy Savings	- 2020-2029 DSM	Plan	Participants	41,992
	Per Ins	stallation	Progra	m Total
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.13	0.14	5,584.94	5,975.88
Annual kWh Reduction	24,187,392	25,445,136		
Annual Demand and Energy Savings		Participants	41,992	
			Progra	m Total
			@ Meter	@ Generator
Summer kW Reduction			0.00	0.00
Winter kW Reduction			5,584.94	5,975.88
Annual kWh Reduction			24,187,392	25,445,136
Utility Cost per Installation (\$):			97	
Total Program Cost of the Utility (\$000)):		4,052.3	
Net Benefits of Measures Installed Dur Note 1: Demand and energy savings no	12,855.4			

				Demand Side M	lanagement Annua	Report			
Utility: Program N Program St Reporting F	tart Date:	Tampa Electri COMMERCIA January 1991 Annual 2022		CONDITIONED S	PACE				
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	6	6	0.0%	86	86	0.1%	80
2016	80,875	80,875	57	63	0.1%	159	245	0.3%	182
2017	81,532	81,532	75	138	0.2%	228	473	0.6%	335
2018	81,740	81,740	110	248	0.3%	193	666	0.8%	418
2019	82,359	82,359	475	723	0.9%	421	1,087	1.3%	364
2020	83,332	83,332	200	923	1.1%	186	1,273	1.5%	350
2021	84,093	84,093	150	1,073	1.3%	143	1,416	1.7%	343
2022	89,415	89,415	115	1,188	1.3%	131	1,547	1.7%	359
2023									

Annual Demand and Energy Savings -	al Demand and Energy Savings - 2020-2029 DSM Plan							
	Per In	stallation	Program	n Total				
	@ Meter	@ Generator	@ Meter	@ Generator				
Summer kW Reduction	29.15	31.19	3,818.78	4,086.10				
Winter kW Reduction	22.70	24.29	2,973.31	3,181.44				
Annual kWh Reduction	78,306	9,751,079	10,258,136					
Annual Demand and Energy Savings,	Participants	131						
			Program	n Total				
			@ Meter	@ Generator				
Summer kW Reduction			3,818.78	4,086.10				
Winter kW Reduction			2,973.31	3,181.44				
Annual kWh Reduction			9,751,079	10,258,136				
Utility Cost per Installation (\$):			5,940					
Total Program Cost of the Utility (\$000):			778.1					
Net Benefits of Measures Installed Durin Note 1: Savings from measured data	4,943.4							

	Demand Side Management Annual Report									
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electric COMMERCIA March 2008 Annual 2022		JNCONDITIONE	D SPACE					
а	b	С	d	е	f	g	h	i	j Actual	
				Projected	Projected	Actual	Actual	Actual	Participation	
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)	
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected	
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants	
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)	
2015	80,277	80,277	2	2	0.0%	16	16	0.0%	14	
2016	80,875	80,875	13	15	0.0%	60	76	0.1%	61	
2017	81,532	81,532	50	65	0.1%	338	414	0.5%	349	
2018	81,740	81,740	50	115	0.1%	246	660	0.8%	545	
2019	82,359	82,359	200	315	0.4%	132	792	1.0%	477	
2020	83,332	83,332	70	385	0.5%	93	885	1.1%	500	
2021	84,093	84,093	115	500	0.6%	101	986	1.2%	486	
2022	89,415	89,415	85	585	0.7%	100	1,086	1.2%	501	
2023										

Annual Demand and Energy Savings -	Plan	Participants	100		
	Per Ins	stallation	Program	n Total	
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	10.03	10.73	1,003.20	1,073.42	
Winter kW Reduction	10.03	10.73	1,003.20	1,073.42	
Annual kWh Reduction	47,835	50,323	4,783,511	5,032,254	
Annual Demand and Energy Savings, I	Note 1		Participants	100	
			Program Total		
			@ Meter	@ Generator	
Summer kW Reduction			1,003.20	1,073.42	
Winter kW Reduction			1,003.20	1,073.42	
Annual kWh Reduction			4,783,511	5,032,254	
Utility Cost per Installation (\$):			2,342		
Total Program Cost of the Utility (\$000):			234.2		
Net Benefits of Measures Installed Durin Note 1: Savings from measured data	g Reporting Perio	d (\$000):	3,902.9		

				Demand Side M	anagement Annua	al Report			
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electri COMMERCIA March 2008 Annual 2022	ic Company \L OCCUPANC`	Y SENSORS					
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	20	20	0.0%	2	2	0.0%	(18)
2016	80,875	80,875	15	35	0.0%	12	14	0.0%	(21)
2017	81,532	81,532	15	50	0.1%	4	18	0.0%	(32)
2018	81,740	81,740	12	62	0.1%	7	25	0.0%	(37)
2019	82,359	82,359	5	67	0.1%	3	28	0.0%	(39)
2020	83,332	83,332	6	73	0.1%	4	32	0.0%	(41)
2021	84,093	84,093	7	80	0.1%	4	36	0.0%	(44)
2022	89,415	89,415	7	87	0.1%	3	39	0.0%	(48)
2023									

Annual Demand and Energy Savings	Participants	3				
	Per Ins	stallation	Progra	am Total		
	@ Meter	@ Generator	@ Meter	@ Generator		
Summer kW Reduction	117.58	125.81	352.74	377.43		
Winter kW Reduction	94.07	100.65	282.21	301.96		
Annual kWh Reduction	233,533	245,677	700,599	737,030		
Annual Demand and Energy Savings	s, Note 1		Participants	3		
			Program Total			
			@ Meter	@ Generator		
Summer kW Reduction			352.74	377.43		
Winter kW Reduction			282.21	301.96		
Annual kWh Reduction			700,599	737,030		
Utility Cost per Installation (\$):			8,074			
Total Program Cost of the Utility (\$000)):		24.2			
Net Benefits of Measures Installed Dur Note 1: Savings from measured data	22.8					

			De	mand Side Mar	agement Annua	al Report			
Utility: Program N Program S Reporting I	tart Date:	Tampa Electri COMMERCIA January 1988 Annual 2022	L LOAD MANA	GEMENT- CYC	LIC				
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	0	0	0.0%	0	0	0.0%	0
2016	80,875	80,875	0	0	0.0%	0	0	0.0%	0
2017	81,532	81,532	0	0	0.0%	0	0	0.0%	0
2018	81,740	81,740	0	0	0.0%	0	0	0.0%	0
2019	82,359	82,359	0	0	0.0%	0	0	0.0%	0
2020	83,332	83,332	0	0	0.0%	0	0	0.0%	0
2021	84,093	84,093	0	0	0.0%	0	0	0.0%	0
2022	89,415	89,415	0	0	0.0%	0	0	0.0%	0
2023									
2024									

Annual Demand and Energy Savings - 20	020-2029 DSM	Plan	Participants	0	
	Per In:	stallation	Progra	m Total	
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	13.20	14.12	0.00	0.00	
Winter kW Reduction	0.00	0.00	0.00	0.00	
Annual kWh Reduction	0	0	0	0	
Annual Demand and Energy Savings, No	ote 1		Participants	0	
			Progra	m Total	
			@ Meter	@ Generator	
Summer kW Reduction			0.00	0.00	
Winter kW Reduction			0.00	0.00	
Annual kWh Reduction			0	0	
Utility Cost per Installation (\$), Note 1:			1,648		
Total Program Cost of the Utility (\$000):			6.6		
Net Benefits of Measures Installed During	Reporting Perio	d (\$000):	0.0		
Note 1: Utility costs based upon total progra	am costs and to	tal participation			

			De	mand Side Mar	agement Annua	al Report			
Utility: Program N Program S Reporting I	start Date:	Tampa Electri COMMERCIA January 1988 Annual 2022		GEMENT- EXTE	ENDED				
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	0	0	0.0%	0	0	0.0%	0
2016	80,875	80,875	0	0	0.0%	0	0	0.0%	0
2017	81,532	81,532	0	0	0.0%	0	0	0.0%	0
2018	81,740	81,740	0	0	0.0%	0	0	0.0%	0
2019	82,359	82,359	0	0	0.0%	0	0	0.0%	0
2020	83,332	83,332	0	0	0.0%	0	0	0.0%	0
2021	84,093	84,093	0	0	0.0%	0	0	0.0%	0
2022	89,415	89,415	0	0	0.0%	0	0	0.0%	0
2023									
2024									

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

TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: MARCH 1, 2023

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Jtility: Program N				mand Side Man	-				
Program S Reporting I	Start Date:	Tampa Electri COMMERCIA November 20 Annual 2022	L SMART THEF	RMOSTATS					
а	b	с	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 % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015 2016 2017 2018				Drogrom was	started on Nov				
2019 2020	83,332	83.332	5	Program was 5	started on Nove 0.0%	ember 2, 2020 0	0	0.0%	(5)
2020 2021 2022 2023 2024	84,093 89,415	84,093 89,415	50 180	50 180	0.1% 0.2%	2 137	2 137	0.0% 0.2%	(48) (43)
Summer k\ Ninter kW	emand and Ener W Reduction Reduction /h Reduction	rgy Savings - 2		Plan stallation @ Generator 46.64 17.00 70,387	Participants Program @ Meter 5,971.83 2,176.25 9,166,333	137 n Total @ Generator 6,389.86 2,328.58 9,642,982			
Summer k\ Winter kW Annual kW	W Reduction Reduction		Per In: @ Meter 43.59 15.89	tallation <u>@ Generator</u> 46.64 17.00	Program @ Meter 5,971.83 2,176.25 9,166,333 Participants Program	n Total @ Generator 6,389.86 2,328.58 9,642,982 137 n Total			
Summer k ¹ Winter kW Annual kW Annual De	W Reduction Reduction /h Reduction emand and Ene		Per In: @ Meter 43.59 15.89	tallation <u>@ Generator</u> 46.64 17.00	Program @ Meter 5,971.83 2,176.25 9,166,333 Participants Program @ Meter	n Total @ Generator 6,389.86 2,328.58 9,642,982 137 n Total @ Generator		For DSM Fore	
Summer k ^v Winter kW Annual kW Annual De Summer k ^v	W Reduction Reduction /h Reduction		Per In: @ Meter 43.59 15.89	tallation <u>@ Generator</u> 46.64 17.00	Program @ Meter 5,971.83 2,176.25 9,166,333 Participants Program	n Total @ Generator 6,389.86 2,328.58 9,642,982 137 n Total		For DSM Fore 43.590 15.885	
Summer k ^V Winter kW Annual kW Annual De Summer kV Winter kW	W Reduction Reduction /h Reduction emand and Ener W Reduction		Per In: @ Meter 43.59 15.89	tallation <u>@ Generator</u> 46.64 17.00	Program @ Meter 5,971.83 2,176.25 9,166,333 Participants Program @ Meter 5,971.83	n Total @ Generator 6,389.86 2,328.58 9,642,982 137 n Total @ Generator 6,389.86		43.590	
Summer k ¹ Winter kW Annual kW Annual De Summer k ¹ Winter kW Annual kW Jtility Cost Total Progi	W Reduction Reduction Ih Reduction Remand and Ener W Reduction	rgy Savings (\$): Utility (\$000):	Per In: @ Meter 43.59 15.89 66,908	estallation @ Generator 46.64 17.00 70,387	Program @ Meter 5,971.83 2,176.25 9,166,333 Participants Program @ Meter 5,971.83 2,176.25	n Total @ Generator 6,389.86 2,328.58 9,642,982 137 n Total @ Generator 6,389.86 2,328.58		43.590 15.885	

				Demand Side M	anagement Annu	al Report			
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electric STANDBY GE January 1991 Annual 2022							
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	2,304	0	0	0.0%	4	4	0.2%	4
2016	80,875	2,449	1	1	0.0%	0	4	0.2%	3
2017	81,532	2,430	1	2	0.1%	6	10	0.4%	8
2018	81,740	2,486	1	3	0.1%	1	11	0.4%	8
2019	82,359	2,608	7	10	0.4%	9	20	0.8%	10
2020	83,332	2,490	6	16	0.6%	14	34	1.4%	18
2021	84,093	2,515	5	21	0.8%	6	40	1.6%	19
2022 2023 2024	89,415	2,527	10	31	1.2%	2	42	1.7%	11

Annual Demand and Energy Savings -	2020-2029 DSM	Plan	Participants	2	
	Per In	stallation	Progra	m Total	
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	107.00	114.49	214.00	228.98	
Winter kW Reduction	107.00	114.49	214.00	228.98	
Annual kWh Reduction	10,700	11,256	21,400	22,513	
Annual Demand and Energy Savings,	Note 1		Participants	2	
			Progra	m Total	
			@ Meter	@ Generator	For DSM For
Summer kW Reduction			214.00	228.98	107.000
Winter kW Reduction			214.00	228.98	107.000
Annual kWh Reduction			21,400	22,513	10,700
Utility Cost per Installation (\$), Note 2:			42,486		
Total Program Cost of the Utility (\$000):			4,885.9		
Net Benefits of Measures Installed Durin Note 1: Savings from measured data	g Reporting Perio	od (\$000):	4,956.0		
Note 2: Utility costs based upon total pro	gram costs and to	otal participation			

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			De	manu Side Man	agement Annua	акероп			
Utility: Program N Program S Reporting I	tart Date:	Tampa Electri VARIABLE FF November 202 Annual 2022	REQUENCY DR	IVE CONTROL	FOR COMPRE	SSORS			
а	b	с	d	е	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participatio Over (Unde Projected Participants (h-e)
2015 2016 2017 2018 2010					started on Nov	ambar 2, 2020			
2019 2020	83,332	83,332	2	Program was	started on Nove 0.0%	0 original contractions	0	0.0%	(2
2020	84,093	84,093	2	2	0.0%	1	1	0.0%	(
2022 2023 2024	89,415	89,415	7	7	0.0%	21	21	0.0%	1
Summer k' Vinter kW	emand and Ener W Reduction Reduction /h Reduction	rgy Savings - 2		Plan stallation @ Generator 1.24 1.24 6,410	Participants Program @ Meter 24.28 24.28 127,961	21 <u>m Total</u> <u>@ Generator</u> 25.98 25.98 134,615			
Summer k Vinter kW Annual kW	W Reduction Reduction		Per Ins @ Meter 1.16 1.16 6,093	stallation @ Generator 1.24 1.24	Program @ Meter 24.28 24.28 127,961 Participants Program	n Total @ Generator 25.98 25.98 134,615 21 n Total			
Summer k Vinter kW Annual kW	W Reduction Reduction /h Reduction		Per Ins @ Meter 1.16 1.16 6,093	stallation @ Generator 1.24 1.24	Program @ Meter 24.28 24.28 127,961 Participants	n Total @ Generator 25.98 25.98 134,615 21			
Summer k ¹ Vinter kW Annual kW Annual De Summer k ¹	W Reduction Reduction /h Reduction emand and Ener		Per Ins @ Meter 1.16 1.16 6,093	stallation @ Generator 1.24 1.24	Program @ Meter 24.28 24.28 127,961 Participants Program @ Meter	n Total @ Generator 25.98 25.98 134,615 21 n Total @ Generator			
Summer k Vinter kW Annual kW Annual De Summer k Vinter kW	W Reduction Reduction /h Reduction emand and Ener W Reduction		Per Ins @ Meter 1.16 1.16 6,093	stallation @ Generator 1.24 1.24	Program @ Meter 24.28 24.28 127,961 Participants Program @ Meter 24.28	n Total @ Generator 25.98 25.98 134,615 21 n Total @ Generator 25.98			
Summer k Vinter kW Annual kW Annual De Summer k Vinter kW Annual kW	W Reduction Reduction /h Reduction emand and Ener w Reduction Reduction /h Reduction	rgy Savings, No	Per Ins @ Meter 1.16 1.16 6,093	stallation @ Generator 1.24 1.24	Program @ Meter 24.28 24.28 127,961 Participants Program @ Meter 24.28 24.28 24.28	n Total @ Generator 25.98 25.98 134,615 21 n Total @ Generator 25.98 25.98			
Summer k ^v Vinter kW Annual kW Annual De Summer k ^v Vinter kW Annual kW Jtility Cost	W Reduction Reduction /h Reduction emand and Ener W Reduction Reduction	rgy Savings, No (\$):	Per Ins @ Meter 1.16 1.16 6,093	stallation @ Generator 1.24 1.24	Program @ Meter 24.28 24.28 127,961 Participants Program @ Meter 24.28 24.28 24.28 127,961	n Total @ Generator 25.98 25.98 134,615 21 n Total @ Generator 25.98 25.98			

			De	mand Side Mar	agement Annua	al Report			
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electri COMMERCIA March 2008 Annual 2020	c Company L WATER HEA	TING					
а	b	с	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	80,277	80,277	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	5	0.0%	0	0	0.0%	(5)
2018	81,740	81,740	3	8	0.0%	0	0	0.0%	(8)
2019	82,359	82,359	1	9	0.0%	0	0	0.0%	(9)
2020	83,332	83,332	0	9	0.0%	0	0	0.0%	(9)
2021	84,093	84,093	0	9	0.0%	0	0	0.0%	(9)
2022	89,415	89,415	1	10	0.0%	0	0	0.0%	(10)
2023									

Annual Demand and Energy Savings - 20	020-2029 DSM	Plan	Participants	0	
	Per In:	stallation	Program Total		
	@ Meter	@ Generator	@ Meter	@ Generator	
Summer kW Reduction	0.87	0.93	0.00	0.00	
Winter kW Reduction	0.58	0.62	0.00	0.00	
Annual kWh Reduction	5,128	5,395	0	0	

Annual Demand and Energy Savings - Combined	Participants	0
	Progra	m Total
	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	0	0
Utility Cost per Installation (\$):	0	
Total Program Cost of the Utility (\$000):	0.0	
Net Benefits of Measures Installed During Reporting Period (\$000):	0.0	

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

Utility: TAMPA ELECTRIC COMPANY

				Resid	lential				
	Win	ter Peak MW Red	duction	Sum	mer Peak MW Re	eduction	GWh Energy Reduction		
	Commission			Commission			Commission		
	Total	Approved	%	Total	Approved	%	Total	Approved	%
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance
2015	12.3	2.6	473.1%	10.8	1.1	981.8%	21.2	1.8	1,177.8%
2016	7.7	4.1	187.8%	5.1	1.6	318.8%	13.2	3.5	377.1%
2017	6.9	5.2	132.7%	4.7	2.2	213.6%	14.9	4.8	310.4%
2018	8.0	6.5	123.0%	5.6	2.7	205.7%	17.1	6.1	280.3%
2019	8.3	7.6	108.8%	5.7	3.1	184.5%	16.8	6.9	243.2%
2020	3.5	7.6	45.5%	2.6	3.3	78.2%	8.9	7.4	120.3%
2021	4.5	8.0	55.8%	6.4	3.3	194.2%	16.4	7.7	213.1%
2022	9.5	7.4	127.8%	11.1	3.0	369.8%	30.4	6.9	441.0%
2023									

2024

				Commerci	al/Industrial					
	Winter Peak MW Reduction Commission			Sum	Summer Peak MW Reduction			GWh Energy Reduction		
				Commission			Commission			
	Total	Approved	%	Total	Approved	%	Total	Approved	%	
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance	
2015	8.1	1.2	675.0%	11.7	1.7	688.2%	12.5	3.9	320.5%	
2016	2.9	1.3	223.1%	4.4	2.5	176.0%	17.8	6.0	296.7%	
2017	9.2	1.6	575.0%	10.4	2.7	385.2%	30.2	8.0	377.5%	
2018	13.0	1.7	767.1%	15.0	3.3	453.6%	33.7	9.2	365.9%	
2019	22.4	1.6	1401.9%	29.2	3.3	885.9%	74.6	9.9	753.4%	
2020	10.4	1.7	612.5%	11.8	3.5	336.0%	26.1	10.3	253.3%	
2021	4.7	1.9	246.2%	5.6	3.6	156.8%	20.4	10.4	196.1%	
2022	7.1	1.9	376.0%	12.3	3.3	372.2%	26.6	10.2	261.2%	
2023										
2024										

	Wint	ter Peak MW Red	luction	Sumr	ner Peak MW Re	duction	GW	h Energy Reduc	tion
	Commission			Commission			Commission		
	Total	Approved	%	Total	Approved	%	Total	Approved	%
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance
2015	20.4	3.8	536.8%	22.5	2.8	803.6%	33.7	5.7	591.2%
2016	10.6	5.4	196.3%	9.5	4.1	231.7%	31.0	9.5	326.3%
2017	16.1	6.8	236.8%	15.1	4.9	308.2%	45.1	12.8	352.3%
2018	21.0	8.2	256.5%	20.5	6.0	342.1%	50.8	15.3	331.8%
2019	30.7	9.2	333.7%	35.0	6.4	546.2%	91.4	16.8	543.9%
2020	13.9	9.3	149.1%	14.3	6.8	210.9%	35.0	17.7	197.7%
2021	9.1	9.9	92.3%	12.1	6.9	174.7%	36.8	18.1	203.3%
2022	16.6	9.3	178.5%	23.4	6.3	371.0%	57.1	17.1	333.8%
2023									
2024									

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

Utility: TAMPA ELECTRIC COMPANY

2024

				Resid	lential					
	Win	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
	Commission			Commission			Commission			
	Total	Approved	%	Total	Approved	%	Total	Approved	%	
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance	
2015	12.3	2.6	473.1%	10.8	1.1	981.8%	21.2	1.8	1,177.8%	
2016	20.0	6.7	298.5%	15.9	2.7	588.9%	34.4	5.3	649.1%	
2017	26.9	11.9	226.1%	20.6	4.9	420.4%	49.3	10.1	488.1%	
2018	34.9	18.4	189.6%	26.2	7.6	344.1%	66.4	16.2	409.9%	
2019	43.2	26.0	166.0%	31.9	10.7	297.9%	83.2	23.1	360.1%	
2020	46.6	33.6	138.7%	34.5	14.0	246.1%	92.1	30.5	301.9%	
2021	51.1	41.6	122.8%	40.9	17.3	236.2%	108.5	38.2	284.0%	
2022	60.5	49.0	123.5%	52.0	20.3	256.0%	138.9	45.1	308.0%	
2023										

				Commerci	al/Industrial					
	Win	nter Peak MW Rec	Juction	Sum	mer Peak MW Re	eduction	GW	GWh Energy Reduction		
	Commission				Commission			Commission		
	Total	Approved	%	Total	Approved	%	Total	Approved	%	
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance	
2015	8.1	1.2	675.0%	11.7	1.7	688.2%	12.5	3.9	320.5%	
2016	11.0	2.5	440.0%	16.1	4.2	383.3%	30.3	9.9	306.1%	
2017	20.2	4.1	492.7%	26.5	6.9	384.1%	60.5	17.9	338.0%	
2018	33.2	5.8	573.1%	41.5	10.2	406.6%	94.2	27.1	347.5%	
2019	55.7	7.4	752.3%	70.7	13.5	523.7%	168.7	37.0	456.1%	
2020	66.1	9.1	726.2%	82.5	17.0	485.1%	194.8	47.3	411.9%	
2021	70.8	11.0	643.3%	88.1	20.6	427.7%	215.2	57.7	373.0%	
2022	77.9	12.9	603.9%	100.4	23.9	420.0%	241.9	67.9	356.2%	
2023										
2024										

	Win	ter Peak MW Rec	duction	Sumr	ner Peak MW Re	duction	GW	h Energy Reduc	tion
	Commission			Commission			Commission		
	Total	Approved	%	Total	Approved	%	Total	Approved	%
Year	Achieved	Goal	Variance	Achieved	Goal	Variance	Achieved	Goal	Variance
2015	20.4	3.8	536.8%	22.5	2.8	803.6%	33.7	5.7	591.2
2016	31.0	9.2	337.0%	32.0	6.9	463.8%	64.7	15.2	425.7
2017	47.1	16.0	294.4%	47.1	11.8	399.2%	109.8	28.0	392.1
2018	68.1	24.2	281.6%	67.6	17.8	379.9%	160.6	43.3	370.8
2019	98.8	33.4	295.9%	102.6	24.2	423.9%	251.9	60.1	419.2
2020	112.7	42.7	263.9%	116.9	31.0	377.2%	286.9	77.8	368.8
2021	121.8	52.6	231.6%	129.0	37.9	340.3%	323.7	95.9	337.6
2022	138.4	61.9	223.7%	152.3	44.2	344.7%	380.8	113.0	337.0
2023									
2024									