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March 1, 2024

#### **VIA: ELECTRONIC MAIL**

Ms. Elizabeth Draper, Director Division of Economics Florida Public Service Commission Room 225E – Gerald L. Gunter Building 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850 EDraper@psc.state.fl.us

Re: Tampa Electric Company's Summary of 2023 DSM Program Accomplishments

Dear Ms. Draper:

Enclosed for filing is Tampa Electric Company's Summary of 2023 Demand Side Management Program Accomplishments.

Thank you for your assistance in connection with this matter.

Sincerely,

Malcolm N. Means

Moldon N. Means

MNM/bml Enclosure

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

Ashley Sizemore (w/o enc.)

Michael Barrett (w/enc.) MBarrett@psc.state.fl.us

TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: MARCH 1, 2024

### TAMPA ELECTRIC'S 2023

# Demand Side Management Program Accomplishments Report





TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: MARCH 1, 2024

### **Executive Summary**

#### **Executive Summary:**

In 2023, Tampa Electric achieved all of the annual and cumulative Residential and Commercial/Industrial ("Comm/Ind") and combined Demand and Annual Energy ("AE") DSM goals.

2023 Residential Goals		Actual Residential DSM Achieved	
SkW:	2.9 MW	SkW:	12.5 MW
WkW:	6.8 MW	WkW:	10.3 MW
AE:	6.3 GWh	AE:	29.6 GWh
2023 Comm/Ind Goals		Actual Comm/Ind DSM Achieved	
SkW:	3.5 MW	SkW:	8.1 MW
WkW:	1.8 MW	WkW:	7.2 MW
AE:	9.9 GWh	AE:	30.3 GWh
2023 Combined Goals		Actual Combined DSM Achieved	
SkW:	6.4 MW	SkW:	20.6 MW
WkW:	8.6 MW	WkW:	17.4 MW
AE:	16.2 GWh	AE:	59.9 GWh

This 2023 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.

#### 2023 DSM Summary Highlights:

- Tampa Electric's team members that facilitate the conservation related activities experienced zero injuries during 2023.
- The company performed 12,348 Walk-Through Energy Audits for Residential customers, including 4,090 as part of the Residential Walk-Through and Computer Assisted Energy Audit programs and 8,258 as a component of the company's Neighborhood Weatherization program.
- 100,189 of the company's customers took advantage of the Residential Customer Assisted Energy Audit (online).
- The company installed weatherization on 8,258 homes as part of the Neighborhood Weatherization program. This participation rate brings the overall penetration level of this program to approximately 44 percent for all qualifying customers.
- The company's Program Support Team processed nearly 100 percent of the 7,796 energy efficiency rebates paid to customers within ten business days of receiving all the required documents for verification.

- Tampa Electric completed the third year of operational testing of the Integrated Renewable Energy System ("IRES"). A detailed summary report is included within this report.
- The company moved forward with the small to mid-size commercial battery Research and Development (R&D) project. A summary of these activities within this R&D project is included within this report.
- Tampa Electric completed the five-year Street and Outdoor Lighting conversion program as of April 2023. This complete program converted 209,821 luminaires to light emitting diode technology and achieved 29.860 MW of winter peak demand reduction and 127.141 GWh of ongoing annual energy savings.
- In 2023, the company continued collaborating with the other FEECA utilities to develop the Technical Potential Study that will serve as the basis for the DSM Goals that will be proposed for the 2025-2034 period and filed in the Spring of 2024.
- The image below is the company's Senior Commercial Energy Analyst presenting the Commission's Triple E award winner for the final quarter of 2022 to the Tampa Bay Historic History Center



#### Challenges:

In 2023, the only challenge involved working to meet the requirement to perform energy audits within 21 days of the request from the customer. Tampa Electric is very proud of the collaboration and teamwork that was performed by the Residential Energy Management Team to ensure the 21-day rule was met. The company monitors this metric on a weekly basis. Historically, the number of residential walk-through audit requests becomes higher, as expected, in the warmer summer months. In August, the company started getting close to this limit and all hands jumped on deck to perform the high-quality walk-through energy audits for the company's residential customers. The company began performing extended days by offering energy audits from 7am to after-hours appointments and even had the Manager of the Residential Energy Management Team performing audits to ensure the company was being responsive to the customer's requests. After the first full week of September, the Residential Team was able to get this day limit reduced due to their hard work and dedication to Tampa Electric's customers.

#### For 2024:

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.

## 2023 Annual Report on DSM Program Accomplishments Table of Contents

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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:

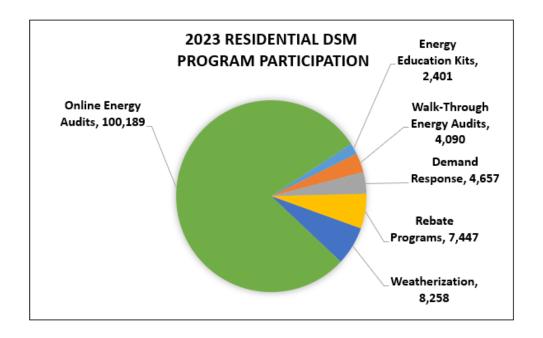
- 1. Reducing the growth rates of weather-sensitive peak demand and electricity usage.
- 2. Increasing the efficiency of the production and use of electricity and natural gas.
- 3. Encouraging demand-side renewable energy systems
- 4. Conserving expensive resources, particularly petroleum fuels

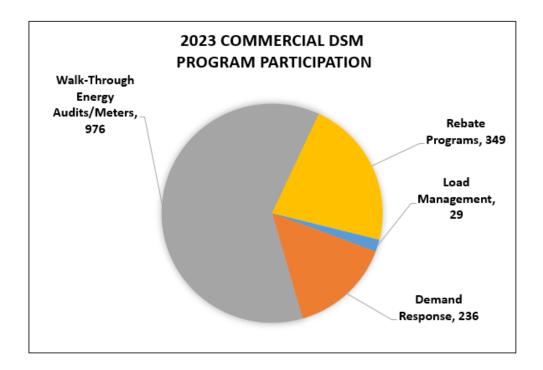
In 2023, Tampa Electric continued to provide the largest portfolio of residential and commercial/industrial energy and demand savings programs in the state of Florida through its Commission approved 2020-2029 DSM Plan. This comprehensive energy efficiency portfolio provides programs in which all customers 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 2023, Tampa Electric facilitated the participation of 127,042 residential and 1,590 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 2023 period:





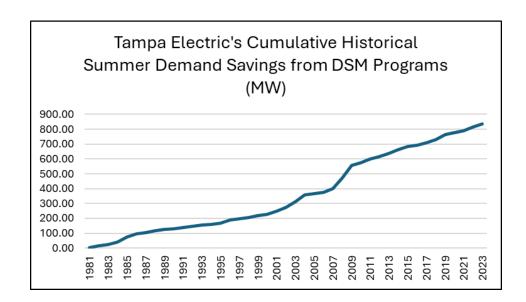
On an historical basis, as of the end of 2023, Tampa Electric has conducted 376,2221 Residential and Commercial Walk-Through energy audits, provided 557,543 online, phone or mail in energy audits, paid 523,896 rebates for energy efficient upgrades, and has performed weatherization on 79,010 homes.

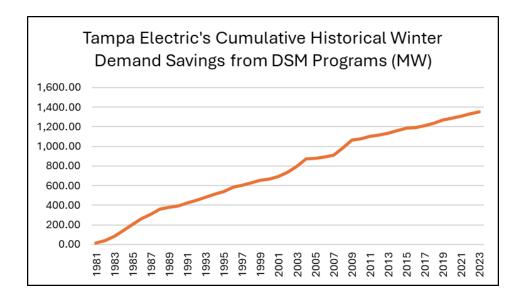
#### **DSM Achievements:**

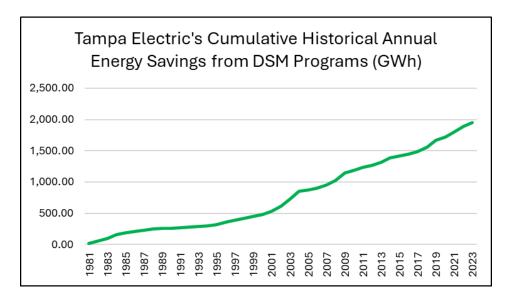
Since the establishment of FEECA and the end of 2023, the company's DSM program have achieved the following cumulative demand and energy savings:

Summer Demand Savings: 835.42 MW
Winter Demand Savings: 1,349.83 MW
Annual Energy Savings: 1,950.12 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:

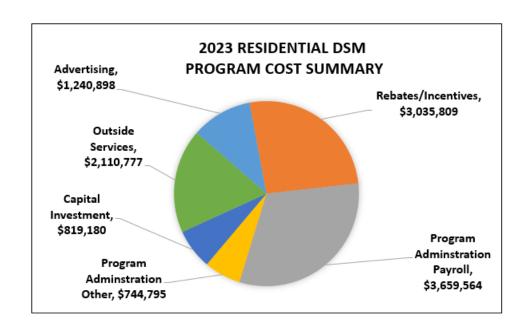


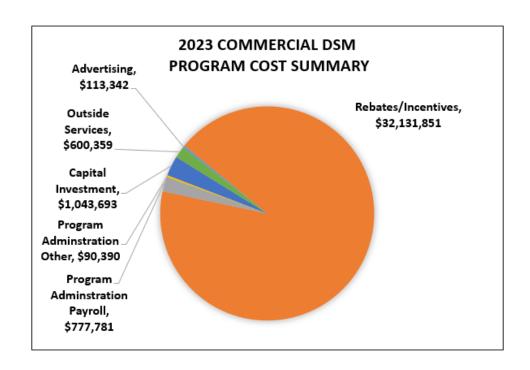




#### **Expenditures:**

In 2023, Tampa Electric facilitated the participation of 127,042 residential and 1,590 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 2023 period:





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**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 Management Analysts discussing energy management with customers.



#### **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.

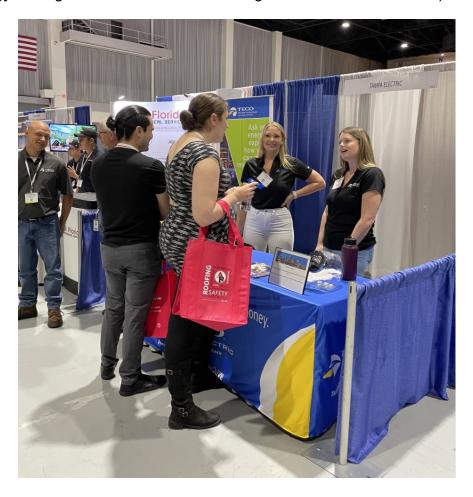


(Tampa Electric Commercial/Industrial Energy Analyst taking notes during their walk-through)





(Members of the company's Commercial Energy Management Team discussing energy management at the Florida Building Maintenance trade show)



The table below provides the summary detail of "audit information by type" for the Energy Audits performed by Tampa Electric in 2023.

Tampa Electric's 2023 Energy Audits Performed by Energy Audit Type					
	Walk-Through, BERS, and Computer Assisted	Online	Phone	Total	
Residential	4,095	100,189	0	104,284	
	Walk-Through and Comprehensive	Online	Phone	Total	
Commercial	976	N/A	0	976	

On an historical basis, as of the end of 2023, Tampa Electric has conducted 376,221 Residential and Commercial Walk-Through energy audits and provided 557,543 online, phone or mail in energy audits.

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## 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.



Junior Achievement work area which trains children to be energy auditors as they participate in this activity.

In addition, the children can play the Energy Snatchers game which helps them understand the conservation of energy through identifying energy wasters.

In 2023, Tampa Electric participated in over 40 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:

- Brandon Lions Club Members Event
- Community Lifestyles after 50 Event
- Martin Luther King Parade City of Tampa
- United Negro College Fund "UNCF" Walk for Education Tampa
- Lake Fantasia Energy Fair
- Community Lifestyles after 50 Event
- Macfarlane Park Elementary School
- Agricultural and Labor program, Inc. "ALPI" Energy Fair Lakeland
- ALPI Energy Fair Haines City
- Tampa bay Buccaneers Energy Education Corner
- Tampa Housing Authority Community Event
- Tampa Housing Authority Energy Education
- Peoples Gas Lunch and Learn
- Pride Parade
- Tampa Bay Water Days and Energy Education
- Community Eggstravaganza
- Patel High School STEM FEST
- Tampa Bay Lighting Go Green
- Blythe Andrews High School Energy Story
- Bay Area Apartment Association
- Raymond James Earth Walk
- WEDU Be My Neighbor Day
- ECO FEST Learning Gate Community School
- East Tampa Public Health & Wellness
- East Tampa Partnership Energy Education Event
- Clean Air Fair
- 2023 Juneteenth Community Celebration
- Center for Economic Development
- East Tampa Community Revitalization Community
- Hillsborough Community College Education Center
- 7 Rivers Water Community Festival
- Homebuyer Energy Education Workshop

- Tampa Hispanic Expo
- South Tampa Chamber of Commerce
- American Heart Walk
- Plant City Pig Jam Community Event
- Town n Country Community Parade
- Great American Teach-In (several Elementary Schools)
- Association of Energy Engineers World Conference



Tampa Electric Energy Management Team Members providing energy education to residential and commercial/industrial customers at the Association of Energy Engineers ("AEE") World conference in Orlando.



Energy Education for Family's at WEDU's annual sustainability event in Tampa.

These two images below are from the Bay Area Apartment Association ("BAAA") convention that was held at the Florida State Fairgrounds. This event brings Property Managers from all over the area for multifamily complexes which provides Tampa Electric an opportunity to promote energy education and awareness and weatherization programs.





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 2023, Tampa Electric provided 2,401 of these energy efficiency kits to qualifying customers.

Additionally, as part of energy education and awareness, the program has a component 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. In 2023, the company has been collaborating with the school district to reengage the energy efficiency and electric vehicle ("EV") training curriculum. The school

district has been working through the potential redesign of their drivers' education program. Because of this potential redesign, there were no students trained in 2023 for this part of the program.

Tampa Electric continued to work on developing an effective platform that will provide quality information on Renewable Energy and is projecting this platform to be available to customers in the early part of 2024.

#### **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 2023, these activities included partnerships with:

American Council for an Energy Efficient Economy ("ACEEE"). The continues to participate in ACEEE's 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 2023, the company continued 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 2023, the company continue to be a sponsor of 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 2002, 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 2023, the company was able to educate 425 customers in addition to weatherizing their homes with energy efficiency measures including duct seal and insulation.

**Tampa Housing Authority.** In 2023, the company coordinated efforts with Tampa Housing Authority to for the delivery of Energy Education and Neighborhood Weatherization measures to three (3) different communities reaching approximately 800 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 2023, Tampa Electric provided 8,258 customers with the weatherization of their homes. It is important to note that homes can be single family,

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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 79,010 homes.

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## Pilot Programs and Research and Development Updates

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

Tampa Electric completed the Light Emitting Diode ("LED") Street and Outdoor Lighting conversion program. In 2023, the company converted the remaining 8,827 street and outdoor lighting luminaires to LED technology as part of this program.

The final luminaires were replaced by April 2023 and the company informed Commission Staff that the program was 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:

2023 Achievements		Total Program Achievements	
SkW:	0.000 MW	SkW:	0.000 MW
WkW:	1.256 MW	WkW:	29.860 MW
AE:	5.349 GWh	AE:	127.141 GWh

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

The Integrated Renewable Energy System ("IRES") — Pilot Program continued to be studied 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 this year of operation:

• The company tested the ability of the batteries to charge and discharge using several different time based scenarios throughout the year. During these scenario changes, a repeated challenge for this system was experienced similar to last year. For reprogramming of the charging and discharging time, these changes required the company to go through the vendor which typically would take at least one day. This delay would make it very problematic as part of a DSM program for demand response or load management in Florida as these programs typically are not scheduled days in advance and can operate with little to no warning depending on the reason for the need to curtail load on the system. This feature may support other jurisdictions which give day ahead notices for curtailment. This would be a feature that would need to be addressed in the initial contract with the

battery manufacturer to ensure that the owner of this system has this control over charging or discharging times.

- The evaluation of the system's intelligence, aimed at assessing its ability to
  detect solar presence and adjust charging and discharging accordingly,
  proved to be unsuccessful. The batteries optimizer program, which is
  employed for this purpose, demonstrated less suitability for structured hours
  of discharge and charging, and exhibited erratic performance.
- The system was tested for performance in storm mode. This test was successful and validated the system's performance for a duration of four (4) hours in this mode.
- A new challenge with the battery vendor came from their restructuring of internal departments or changing their internal customer service supporting processes. During this year, the vendor transitioned to a service ticket system with new security protocols and the removal of a dedicated contact has removed the ability to get immediate response when experiencing an issue. In addition, access to the supporting service ticket software required non-disclosure agreements to be signed which further delayed testing or changes. This change also removed all of the vendor's experience and knowledge with this pilot program, while this is not a typical set up and thus made those responding to the tickets have no history of the scope of the project or what is trying to be accomplished. The clarity of the contracts for what goods and services are actually being provided would need to be in place to mitigate this issue.
- The company encountered issues with how the original batteries were programmed during the reconfiguration of the timing of charging and discharging scenarios. Understanding of how the batteries are programmed to operate is imperative for these systems, not just from a charging and discharging time, or depth of discharge perspectives but also what devices are allowed to charge the battery (i.e. – can the battery be only charged from the solar system only, from the electrical grid, or a combination of sources)
- The company completed testing to determine the maximum depth of discharge to maximize the performance of the battery and at the same time maximize the benefits for load shedding. These test scenarios revealed that discharging below 30 percent of the rating of the battery is not recommended.
- The PV portion of the system experienced one failed invertor on the PV system. The issue was caught during the annual maintenance of the system which places an importance on the warranty of these systems, in addition to reinforcing that these systems need ongoing maintenance to

ensure the benefits of the systems are realized. The invertor manufacturer is currently assessing the defective inverter to determine whether a complete replacement is necessary or if repairing the problematic module is a viable option.

- The system was adversely impacted by a lightning storm strike that impacted the firewall communications which turned off connectivity with the system for a period of time. While systems communications were impacted, increased site visits during this time confirmed that the system continued to operate.
- Annual maintenance was found to be effective on weekends. This timing, while at a premium rate for labor, resulted in no operational impacts to the overall integrated system.
- The company promoted this pilot program to commercial and industrial customers through Tampa Electric's Power Forward Blog, featuring articles on the system. The company's Commercial Energy Management Team's Supervisor also presented information on the operation and benefits of the system at the Building Owners and Managers Association ("BOMA") and the Florida Builders Maintenance Show ("FBMS"). The company anticipates that tours will occur in 2024 to see this system.

#### 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.

Below are the specific items the company completed in 2023 in preparation of completing the three final phases of this CRD project.

- Site Selection: the company has been collaborating with two customers to implement the battery systems that were identified. The first customer is a not-for-profit training center for people with disabilities. The second customer identified was going to be a low-income community center but during the finalizing of the space requirements for the battery installation, the owner of the facility deemed that there was no suitable location for the container that would house the battery to be installed. The company started looking for another similar facility for the second location.
- The company collaborated with safety subject matter experts to conduct a Hazard and Operability Study (HAZOP). For the performance of this study,

A dedicated session involving battery experts, the risk team, and the safety team was held with the Company's Commercial Energy Management Team to thoroughly review the prospective projects. The outcome was a comprehensive plan and execution strategy, accompanied by assigned follow-up tasks.

- Site Considerations: the company conducted a comprehensive assessment of site requirements, considering factors such as available wall space, exterior conditions, age of the building, physical features that may need to be altered, and parking considerations. The company encountered a challenge with parking lot space due to enforcement laws governing handicapped (Accessible) spaces. This necessitated the inclusion of this identification in the design. In addition, due to the age of the facility made it necessary to test for lead and asbestos due to needing to remove a portion of a wall to support the battery installation (these environmental tests both came out with favorable results).
- The company has been working with the legal and procurement teams to initiate the development of required legal agreements to support this CRD project.
- Collaborated closely with the building owners to asses any electric design changes that would need to be performed to support the installation of the battery systems.
- Developed the necessary interconnection agreements applicable to this project.
- The company anticipates that the first customer will have the battery installed in the early part of 2024.

#### **Heat Pump Water Heater, Research and Development - Update:**

Tampa Electric is abandoning this potential CRD project due to the results received in the company's recent Technical Potential Study for residential heat pump water heaters.

TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: MARCH 1, 2024

### 2023 DSM Program Achievements

TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: MARCH 1, 2024

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.

Program Sta Reporting P		Tampa Electri RESIDENTIAI May 1981 Annual 2023		AUDIT (aka Walk	c-Thru Audit or EA F	ree)			
а	b	С	d	е	f	g	h	i	j
				Projected	Projected	Actual	Actual	Actual	Actual Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	628,392	628,392	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	721,172	721,172	4,400	50,200	7.0%	4,308	42,017	5.8%	(8,183
2023 2024	736,127	736,127	4,050	54,250	7.4%	4,090	46,107	6.3%	(8,143
Annual Der	mand and Ener	gy Savings - 20		<b>Plan</b> nstallation	Participants Progran	4,090 n Total			
		gy Savings - 20	Per li @ Meter	nstallation @ Generator	Progran  @ Meter	m Total @ Generator			
Summer kV	V Reduction	gy Savings - 20	Per la @ Meter 0.10	nstallation @ Generator 0.10	Program @ Meter 392.64	m Total  @ Generator 421.30			
Summer kV Vinter kW I	V Reduction Reduction	gy Savings - 20	Per li @ Meter 0.10 0.13	@ Generator 0.10 0.14	Program @ Meter 392.64 519.43	m Total @ Generator 421.30 557.35			
Summer kV Vinter kW I	V Reduction	gy Savings - 20	Per la @ Meter 0.10	nstallation @ Generator 0.10	Program @ Meter 392.64	m Total  @ Generator 421.30			
Summer kV Vinter kW l Annual kWh	V Reduction Reduction		Per II @ Meter 0.10 0.13 625	@ Generator 0.10 0.14	Program @ Meter 392.64 519.43	m Total @ Generator 421.30 557.35			
Summer kV Vinter kW l Annual kWh	V Reduction Reduction n Reduction		Per II @ Meter 0.10 0.13 625	@ Generator 0.10 0.14	Program @ Meter	n Total @ Generator 421.30 557.35 2,699,400 4,090 n Total			
Summer kW Winter kW I Annual kWI	V Reduction Reduction n Reduction mand and Ener		Per II @ Meter 0.10 0.13 625	@ Generator 0.10 0.14	Program @ Meter  392.64 519.43 2,556,250  Participants Program @ Meter	n Total @ Generator 421.30 557.35 2,699,400 4,090 n Total @ Generator			
Summer kW Vinter kW I Annual kWh Annual Der Summer kW	V Reduction Reduction n Reduction mand and Ener V Reduction		Per II @ Meter 0.10 0.13 625	@ Generator 0.10 0.14	Program @ Meter  392.64 519.43 2,556,250  Participants Program @ Meter  392.64	m Total @ Generator 421.30 557.35 2,699,400 4,090 m Total @ Generator 421.30			
Summer kW Vinter kW I Annual kWh Annual Der Summer kW Vinter kW I	V Reduction Reduction n Reduction mand and Ener V Reduction Reduction		Per II @ Meter 0.10 0.13 625	@ Generator 0.10 0.14	Program @ Meter  392.64 519.43 2,556,250  Participants Program @ Meter  392.64 519.43	m Total  @ Generator  421.30 557.35 2,699,400  4,090 m Total  @ Generator  421.30 557.35			
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Summer kW Winter kW I Annual kWI Annual Der Summer kW Winter kW I Annual kWI	V Reduction Reduction In Reduction Mand and Ener V Reduction Reduction In Reduction In Reduction In Reduction In Reduction In Reduction	gy Savings, No	Per II @ Meter 0.10 0.13 625	@ Generator 0.10 0.14	Program @ Meter  392.64 519.43 2,556,250  Participants Program @ Meter  392.64 519.43 2,556,250	m Total  @ Generator  421.30 557.35 2,699,400  4,090 m Total  @ Generator  421.30 557.35			
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Utility:

Year

Program Name:

Program Start Date:

b

Total

Number of

Customers

Reporting Period:

Tampa Electric Company

June 1996

Annual 2023

С

Total

Number of

Eligible

Customers

RESIDENTIAL CUSTOMER ASSISTED AUDITS

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Projected

Cumulative

Number of

Program

Participants

d

Total

Number of

Projected

Participants

8,392 628,3 0,090 640,0 1,770 651,7 2,917 662,9 7,922 677,9 1,719 691,7	770 1,200 770 500 917 800	1,390 2,590 3,090 3,890	0.2% 0.4% 0.5% 0.6%	658 1,017 409 27,734	658 1,675 2,084 29,818	0.1% 0.3% 0.3% 4.5%	(732) (915) (1,006) 25,928
1,770 651,7 2,917 662,9 7,922 677,9	770 500 917 800	3,090 3,890	0.5% 0.6%	409	2,084	0.3%	(915) (1,006)
2,917 662,9 7,922 677,9	917 800	3,890	0.6%				. , ,
7,922 677,9				27,734	29.818	4 5%	25 028
	122 35,000	00 000				,	25,520
1710 6017		38,890	5.7%	57,370	87,188	12.9%	48,298
1,1180 081,1	<sup>7</sup> 19 42,000	80,890	11.7%	59,766	146,954	21.2%	66,064
4,770 704,7	770 60,000	140,890	20.0%	68,540	215,494	30.6%	74,604
1,172 721,1	75,000	215,890	29.9%	109,802	325,296	45.1%	109,406
3,127 736,1	75,000	290,890	39.5%	100,189	425,485	57.8%	134,595
nd Energy Saving			Participants Progra	100,189 m Total			
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	469	495	46,988,641	49,620,005			
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iu Ellergy Saving	,s, Note 1			,			
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d energy savings	not included in achie	evements					
	nd Energy Saving tion on tion on tion allation (\$): of the Utility (\$000) asures Installed Du	nd Energy Savings - 2020-2029 DSM Per Ir @ Meter tion 0.07 on 0.10 tion 469  allation (\$): of the Utility (\$000): sures Installed During Reporting Perior	nd Energy Savings - 2020-2029 DSM Plan Per Installation @ Meter @ Generator 0.07 0.08 on 0.10 0.10 tion 469 495  nd Energy Savings, Note 1	Participants	Participants   100,189   Program Total   Program Total   Participants   100,189   Program Total   Program	Participants   100,189   425,485   100   189	Total

Demand Side Management Annual Report

f

Projected

Cumulative

Penetration

Level %

[(e/c)x100]

g

Actual

Annual

Number of

Program

Participants

h

Actual

Cumulative

Number of

Program

Participants

Actual

Cumulative

Penetration

Level %

[(h/c)x100]

Actual

Participation Over (Under)

Projected

Participants

(h-e)

		D	emand Side Mar	nagement Annual	Report			
ame: tart Date: Period:	•		Computer Assiste	ed - Paid)				
b	С	d	е	f	g	h	i	j
Total Number of Customers 628,392 640,090 651,770 662,917 677,922 691,719 704,770 721,172 736,127	Total Number of Eligible Customers 628,392 640,090 651,770 662,917 677,922 691,719 704,770 721,172 736,127	Total Number of Projected Participants  0 4 10 10 1 1 4 4 4	Projected Cumulative Number of Program Participants 0 4 14 24 25 26 27 31 35	Projected Cumulative Penetration Level % [(e/c)x100]  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Actual Annual Number of Program Participants 5 9 4 2 1 0 0 2 5	Actual Cumulative Number of Program Participants  5 14 18 20 21 21 21 23 28	Actual Cumulative Penetration Level % [(h/c)x100] 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	Actual Participation Over (Under) Projected Participants (h-e)  5 10 4 (4) (4) (5) (6) (8) (7)
mand and Ene	rgy Savings - 2			Participants Prograr	5 m Total			
		@ Meter	@ Generator	@ Meter	@ Generator			
N Reduction		0.10	0.10	0.48	0.52			
Reduction		0.13	0.14	0.64	0.68			
h Reduction		625	660	3,125	3,300			
mand and Ene	rgy Savings, No	ote 1						
N Reduction								
h Reduction				3,125	3,300			
ram Cost of the tage of the tage of Measures I	Utility (\$000): nstalled During			685 3.4 (1.3)				
	Total Number of Customers 628,392 640,090 651,770 662,917 677,922 691,719 704,770 721,172 736,127  Mand and Ener W Reduction Reduction h Reduction h Reduction h Reduction h Reduction h Reduction h Reduction per Installation am Cost of the s of Measures I	ame: RESIDENTIAL January 1981 January 1981 Annual 2023  b c Total Number of Customers 628,392 640,090 651,770 662,917 662,917 677,922 691,719 704,770 721,172 736,127 736,127  W Reduction Reduction h	Tampa Electric Company RESIDENTIAL RCS AUDIT (Company) Residential Residen	Tampa Electric Company RESIDENTIAL RCS AUDIT (Computer Assist tart Date: January 1981 Annual 2023  b	Tampa Electric Company   RESIDENTIAL RCS AUDIT (Computer Assisted - Paid)   January 1981   Annual 2023	RESIDENTIAL RCS AUDIT (Computer Assisted - Paid)   January 1981   Annual 2023   Annual 2024   Annual 2023   Annual 2024   Annual 2023   Annu	Tampa Electric Company RESIDENTIAL RCS AUDIT (Computer Assisted - Paid)   January 1981   Annual 2023   Annual 2024   Annual 20	Tampa Electric Company RESIDENTIAL RCS AUDIT (Computer Assisted - Paid)   Seriod:   Annual 2023   Annual 2023

			D	emand Side Ma	anagement Annual	Report			
Utility: Program N Program S Reporting	Start Date:	Tampa Electri RESIDENTIAI November 198 Annual 2023	L CEILÍNG 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 2024	736,127	487,246	480	14,870	3.1%	480	8,036	1.6%	(6,834)
Annual De	emand and Ene	rav Savinas - 2	020-2029 DSM	Plan	Participants	480			
Annual De	emand and Ene	rgy Savings - 2		<b>Plan</b> stallation	Participants Prograr				
Annual De	emand and Ene	rgy Savings - 2			•				
	emand and Ene W Reduction	rgy Savings - 2	Per In:  @ Meter  0.32	stallation	Prograr	m Total			
Summer k		rgy Savings - 2	Per In: @ Meter 0.32 0.42	graduation  @ Generator 0.35 0.45	Program @ Meter	m Total @ Generator			
Summer k Winter kW	W Reduction	rgy Savings - 2	Per In:  @ Meter  0.32	stallation  @ Generator  0.35	Program  @ Meter  154.56	m Total  @ Generator  165.84			
Summer k Winter kW Annual kW	W Reduction Reduction		Per In: @ Meter 0.32 0.42	graduation  @ Generator 0.35 0.45	Program @ Meter	m Total @ Generator 165.84 218.38 341,130 480			
Summer k Winter kW Annual kW	W Reduction Reduction /h Reduction		Per In: @ Meter 0.32 0.42	graduation  @ Generator 0.35 0.45	Program  @ Meter  154.56 203.52 323,040  Participants Program	m Total @ Generator 165.84 218.38 341,130 480 m Total			
Summer k Winter kW Annual kW <b>Annual De</b>	W Reduction / Reduction /h Reduction emand and Ene		Per In: @ Meter 0.32 0.42	graduation  @ Generator 0.35 0.45	Prograr  @ Meter  154.56 203.52 323,040  Participants Prograr  @ Meter	m Total @ Generator 165.84 218.38 341,130 480 m Total @ Generator			
Summer k Winter kW Annual kW <b>Annual De</b> Summer k	W Reduction Reduction Th Reduction Remand and Ene W Reduction		Per In: @ Meter 0.32 0.42	graduation  @ Generator 0.35 0.45	Program @ Meter	m Total @ Generator 165.84 218.38 341,130 480 m Total @ Generator 165.84			
Summer k Winter kW Annual kW <b>Annual De</b> Summer k Winter kW	W Reduction / Reduction /h Reduction emand and Ene		Per In: @ Meter 0.32 0.42	graduation  @ Generator 0.35 0.45	Prograr  @ Meter  154.56 203.52 323,040  Participants Prograr  @ Meter	m Total @ Generator 165.84 218.38 341,130 480 m Total @ Generator			
Summer k Winter kW Annual kW <b>Annual De</b> Summer k Winter kW Annual kW Utility Cos	W Reduction Reduction The Reduction W Reduction W Reduction Reduction The Reduction The Reduction The Reduction The Reduction	rgy Savings (\$):	Per In: @ Meter 0.32 0.42	graduation  @ Generator 0.35 0.45	Program @ Meter  154.56 203.52 323,040  Participants Program @ Meter  154.56 203.52 323,040  391	m Total  @ Generator  165.84 218.38 341,130  480 m Total  @ Generator  165.84 218.38			
Summer k Winter kW Annual be Annual De Summer k Winter kW Annual kW Utility Cos Total Prog	W Reduction Reduction Reduction What Reduction Remand and Ene W Reduction Reduction Reduction Reduction	rgy Savings (\$): Utility (\$000):	Per In: @ Meter	stallation  @ Generator 0.35 0.45 711	Program  @ Meter  154.56 203.52 323,040  Participants Program  @ Meter  154.56 203.52 323,040	m Total  @ Generator  165.84 218.38 341,130  480 m Total  @ Generator  165.84 218.38			

Program S Reporting		Tampa Electri RESIDENTIAI September 19 Annual 2023	L DUCT RÉPAI	R					
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	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 2024	736,127	472,373	400	9,135	1.9%	315	8,692	1.8%	(443)
Annual De	emand and Ener	rgy Savings - 2			Participants Progres	315			
Annual De	emand and Ener	rgy Savings - 2	Per I	nstallation	Prograi	m Total			
	emand and Ener	rgy Savings - 2	Per I	nstallation @ Generator	Prograi @ Meter	m Total @ Generator			
Summer k		rgy Savings - 2	Per I	nstallation	Prograi	m Total			
Summer k' Winter kW	W Reduction	rgy Savings - 2	Per I @ Meter 0.20	nstallation @ Generator 0.21	Program @ Meter 62.69	m Total  @ Generator 67.26			
Summer k' Winter kW Annual kW	W Reduction Reduction		Per II @ Meter 0.20 0.33	mstallation  @ Generator 0.21 0.36	Program @ Meter 62.69 104.90 219,240  Participants	m Total  @ Generator 67.26 112.55 231,517			
Summer k' Winter kW Annual kW	W Reduction Reduction 'h Reduction		Per II @ Meter 0.20 0.33	mstallation  @ Generator 0.21 0.36	Program  @ Meter 62.69 104.90 219,240  Participants Program	m Total  @ Generator 67.26 112.55 231,517  315 m Total			
Summer k' Winter kW Annual kW <b>Annual De</b>	W Reduction Reduction /h Reduction emand and Enei		Per II @ Meter 0.20 0.33	mstallation  @ Generator 0.21 0.36	Program @ Meter 62.69 104.90 219,240  Participants Program @ Meter	m Total  @ Generator 67.26 112.55 231,517  315 m Total @ Generator			
Summer k' Winter kW Annual kW <b>Annual De</b> Summer k'	W Reduction Reduction In Reduction Remand and Energy W Reduction		Per II @ Meter 0.20 0.33	mstallation  @ Generator 0.21 0.36	Program @ Meter 62.69 104.90 219,240  Participants Program @ Meter 62.69	m Total  @ Generator 67.26 112.55 231,517  315 m Total @ Generator 67.26			
Summer k' Winter kW Annual kW <b>Annual De</b> Summer k' Winter kW	W Reduction Reduction /h Reduction emand and Enei		Per II @ Meter 0.20 0.33	mstallation  @ Generator 0.21 0.36	Program @ Meter 62.69 104.90 219,240  Participants Program @ Meter	m Total  @ Generator 67.26 112.55 231,517  315 m Total @ Generator			
Summer k' Winter kW Annual kW <b>Annual De</b> Summer k' Winter kW Annual kW	W Reduction Reduction In Reduction Remand and Energy W Reduction Reduction	rgy Savings	Per II @ Meter 0.20 0.33	mstallation  @ Generator 0.21 0.36	Program @ Meter 62.69 104.90 219,240  Participants Program @ Meter 62.69 104.90	M Total  @ Generator 67.26 112.55 231,517  315 M Total @ Generator 67.26 112.55			
Summer k' Winter kW Annual kW Annual De Summer k' Winter kW Annual kW Utility Cost	W Reduction Reduction In Reduction We mand and Energy W Reduction Reduction In Reduction	rgy Savings (\$):	Per II @ Meter 0.20 0.33	mstallation  @ Generator 0.21 0.36	Program @ Meter 62.69 104.90 219,240  Participants Program @ Meter 62.69 104.90 219,240	M Total  @ Generator 67.26 112.55 231,517  315 M Total @ Generator 67.26 112.55			

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Utility: Program N	lame:	Tampa Electri	. ,	EDUCATION	AWARENESS ANI		PEACH		
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Reporting I		Annual 2023							
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а	Ь	С	u	е	ı	g	h	1	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 2018	651,770 662,917	651,770	500 750	4,500 5,250	0.7% 0.8%	975 806	2,848 3,654	0.4% 0.6%	(1,652)
2018	662,917 677,922	662,917 677,922	750 700	5,250 5,950	0.8%	1,304	3,654 4,958	0.6% 0.7%	(1,596) (992)
2019	691,719	691,719	750 750	6,700	1.0%	1,304 445	4,956 5,403	0.7%	(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	736,127	736,127	2,000	12,300	1.7%	2,401	11,102	1.5%	(1,198)
2024	,	•	•	,		,	,		( , ,
Annual De	emand and Enei	rgy Savings - 2		<b>Plan</b> stallation	Participants Prograr	2,401 n Total			
			@ Meter	@ Generator	@ Meter	@ Generator			
Summer k\	W Reduction		0.04	0.04	98.44	105.63			
Winter kW	Reduction		0.05	0.05	120.05	128.81			
Annual kW	h Reduction		366	386	878,766	927,977			
Annual De	emand and Ene	rgy Savings			Participants	2,401			
					Program				
Summer M	W Reduction				@ Meter 98.44	@ Generator 105.63			
Winter kW					96.44 120.05	128.81			
	h Reduction				878,766	927,977			
					3. 3,. 30	3=.,0.7			
Utility Cost	per Installation	(\$):			110				
	ram Cost of the I				264.9				
Net Benefit	ts of Measures I	nstalled During	Reporting Perio	d (\$000):	(290.7)				

Program St Reporting F	ame: tart Date: Period:		c Company AR for NEW MU	LTI-FAMILY RES	SIDENCES				
а	b	С	d	е	f	g	h	i	j Actual
				Projected	Projected	Actual	Actual	Actual	Participation
		Total	Total	Cumulative	Cumulative	Annual	Cumulative	Cumulative	Over (Under)
	Total	Number of	Number of	Number of	Penetration	Number of	Number of	Penetration	Projected
	Number of	Eligible	Projected	Program	Level %	Program	Program	Level %	Participants
Year	Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
2015	0	0	0	0	0.0%	0	0	0.0%	0
2016	0	0	0	0	0.0%	0	0	0.0%	0
2017	201,074	3,820	600	600	15.7%	0	0	0.0%	(600)
2018	207,026	5,952	600	1,200	20.2%	0	0	0.0%	(1,200)
2019	210,907	3,881	250	1,450	37.4%	264	264	6.8%	(1,186)
2020	215,519	4,612	0	1,450	31.4%	0	264	5.7%	(1,186)
2021	236,621	6,025	0	1,450	24.1%	0	264	4.4%	(1,186)
2022	243,555	6,893	Ö	1,450	21.0%	0	264	3.8%	(1,186)
2023	247,955	5,207	0	1,450	27.8%	0	264	5.1%	(1,186)
2024	, . 30	-,-3.	· ·	.,0		· ·	_3.		(1,100)
Annual De	mand and Enei	rgy Savings - 2	020-2029 DSM	Plan	Participants	0			
Annual De	mand and Enei	rgy Savings - 2		<b>Plan</b> nstallation	Participants Progran				
		rgy Savings - 2		nstallation @ Generator	Progran  @ Meter	n Total @ Generator			
Summer kV	W Reduction	rgy Savings - 2	Per I @ Meter 0.44	nstallation @ Generator 0.47	Progran  @ Meter  0.00	m Total  @ Generator  0.00			
Summer kV Vinter kW	V Reduction Reduction	rgy Savings - 2	Per I @ Meter 0.44 0.30	@ Generator 0.47 0.32	Program  @ Meter  0.00 0.00	n Total @ Generator 0.00 0.00			
Summer kV Winter kW	W Reduction	rgy Savings - 2	Per I @ Meter 0.44	nstallation @ Generator 0.47	Progran  @ Meter  0.00	m Total  @ Generator  0.00			
Summer kV Winter kW Annual kWl	V Reduction Reduction		Per I @ Meter 0.44 0.30	@ Generator 0.47 0.32	Program  @ Meter  0.00 0.00	n Total @ Generator 0.00 0.00 0			
Summer kV Winter kW Annual kWI	N Reduction Reduction h Reduction mand and Enei		Per I @ Meter 0.44 0.30	@ Generator 0.47 0.32	Program  @ Meter  0.00 0.00 0 Participants Program @ Meter	n Total  @ Generator			
Summer kV Winter kW Annual kWl <b>Annual De</b> l Summer kV	W Reduction Reduction h Reduction mand and Ener		Per I @ Meter 0.44 0.30	@ Generator 0.47 0.32	Program  @ Meter  0.00 0.00 0  Participants Program @ Meter  0.00	n Total  @ Generator			
Summer kV Winter kW Annual kWl <b>Annual De</b> l Summer kV Winter kW	W Reduction Reduction h Reduction mand and Ener W Reduction Reduction		Per I @ Meter 0.44 0.30	@ Generator 0.47 0.32	Program  @ Meter  0.00 0.00 0  Participants Program  @ Meter  0.00 0.00	n Total  @ Generator			
Summer kV Winter kW Annual kWl <b>Annual De</b> l Summer kV Winter kW	W Reduction Reduction h Reduction mand and Ener		Per I @ Meter 0.44 0.30	@ Generator 0.47 0.32	Program  @ Meter  0.00 0.00 0  Participants Program @ Meter  0.00	n Total  @ Generator			
Summer kV Winter kW Annual kWI Annual Del Summer kV Winter kW Annual kWI Utility Cost	W Reduction Reduction h Reduction mand and Ener W Reduction Reduction h Reduction per Installation	rgy Savings (\$):	Per I @ Meter 0.44 0.30	@ Generator 0.47 0.32	Program  @ Meter  0.00 0.00 0  Participants Program  @ Meter  0.00 0.00	n Total  @ Generator			
Summer kV Winter kW Annual Del Summer kV Winter kW Annual kWI Utility Cost Total Progra	W Reduction Reduction h Reduction mand and Ener W Reduction Reduction h Reduction	rgy Savings (\$): Utility (\$000):	Per I  @ Meter  0.44  0.30  1,460	nstallation @ Generator 0.47 0.32 1,542	Program  @ Meter  0.00 0.00 0  Participants Program  @ Meter  0.00 0.00 0.00 0	n Total  @ Generator			

				Demand Side	Management Annual	Report			
Utility: Program Na Program St Reporting F	art Date:		AR for NEW HO	` ,	RESIDENTIAL NEW C GY STAR November 2	,			
а	b	С	d	е	f	g	h	i	j A etual
Year 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	Total Number of Customers 628,392 640,090 651,770 662,917 677,922 691,719 704,770 721,172 736,127	Total Number of Eligible Customers 4,361 3,870 2,953 9,544 9,929 9,798 9,931 8,706 7,699	Total Number of Projected Participants 2,400 1,200 1,000 1,000 1,000 1,000 1,160 720 600	Projected Cumulative Number of Program Participants 2,400 3,600 4,600 5,600 6,600 7,600 8,760 9,480 10,080	Projected Cumulative Penetration Level % [(e/c)x100] 55.0% 93.0% 155.8% 58.7% 66.5% 77.6% 88.2% 108.9% 130.9%	Actual Annual Number of Program Participants 2,494 403 640 823 849 858 1,006 708 770	Actual Cumulative Number of Program Participants 2,494 2,897 3,537 4,360 5,209 6,067 7,073 7,781 8,551	Actual Cumulative Penetration Level % [(h/c)x100] 57.2% 74.9% 119.8% 45.7% 52.5% 61.9% 71.2% 89.4% 111.1%	Actual Participation Over (Under) Projected Participants (h-e)  94 (703) (1,063) (1,240) (1,391) (1,533) (1,687) (1,699) (1,529)
	V Reduction	rgy Savings - 2		Plan nstallation @ Generator 2.12 0.64	Participants Progran  @ Meter 1,524.60 462.77	770 n Total @ Generator 1,635.90 496.55			
Annual kWl			5,378	5,679	4,141,060	4,372,959			
Annual De	mand and Ene	rgy Savings			Participants Progran				
Summer kV Winter kW Annual kWI					@ Meter 1,524.60 462.77 4,141,060	@ Generator 1,635.90 496.55 4,372,959			
Total Progra	per Installation am Cost of the s of Measures I	· · /	Reporting Perio	d (\$000):	1,025 789.4 2,009.9				

Program S Reporting I		Tampa Electric C ENERGY STAR November 2020 Annual 2023							
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 Participation Over (Under) Projected Participants (h-e)
2015 2016 2017 2018				_					
2019	604 740	400 040	2	•	as started on Noven	•	10	0.00/	7
2020 2021 2022	691,719 704,770 721,172	480,812 489,251 484,551	3 510 900	3 513 1,413	0.0% 0.1% 0.3%	10 628 1,193	10 638 1,831	0.0% 0.1% 0.4%	7 125 418
2023 2024	736,127	492,572	1,150	2,563	0.5%	1,460	3,291	0.7%	728
Annual De	emand and Ener	rgy Sayings - 2020	)-2029 DSM Pla	ın	Participants	1.460			
Annual De	emand and Ener	rgy Savings - 2020		ı <b>n</b> stallation	Participants Prograr	1,460 n Total			
		rgy Savings - 2020	Per In:	stallation @ Generator	Program  @ Meter	n Total @ Generator			
Summer k\	W Reduction	rgy Savings - 2020	Per In: @ Meter 1.72	stallation  @ Generator  1.84	Program @ Meter 2,508.28	m Total  @ Generator 2,691.38			
Summer k\ Winter kW		rgy Savings - 2020	Per In:	stallation @ Generator	Program  @ Meter	n Total @ Generator			
Summer k\ Winter kW Annual kW	W Reduction Reduction		Per In: @ Meter 1.72 0.00	© Generator 1.84 0.00	Program  @ Meter  2,508.28  0.00  4,616,520  Participants	m Total @ Generator 2,691.38 0.00 4,875,045			
Summer k\ Winter kW Annual kW	W Reduction Reduction 'h Reduction		Per In: @ Meter 1.72 0.00	© Generator 1.84 0.00	Program  @ Meter  2,508.28 0.00 4,616,520  Participants Program	n Total  @ Generator 2,691.38 0.00 4,875,045  1,460 n Total			
Summer k\ Winter kW Annual kW <b>Annual De</b>	W Reduction Reduction In Reduction		Per In: @ Meter 1.72 0.00	© Generator 1.84 0.00	Program  @ Meter  2,508.28 0.00 4,616,520  Participants Program  @ Meter	n Total @ Generator 2,691.38 0.00 4,875,045  1,460 n Total @ Generator			
Summer k\\ Winter kW Annual kW Annual De	W Reduction Reduction Th Reduction Themand and Energy W Reduction		Per In: @ Meter 1.72 0.00	© Generator 1.84 0.00	Program @ Meter  2,508.28 0.00 4,616,520  Participants Program @ Meter  2,508.28	n Total @ Generator 2,691.38 0.00 4,875,045  1,460 n Total @ Generator 2,691.38			
Summer k\ Winter kW Annual kW Annual De Summer k\ Winter kW	W Reduction Reduction Th Reduction Themand and Energy W Reduction		Per In: @ Meter 1.72 0.00	© Generator 1.84 0.00	Program  @ Meter  2,508.28 0.00 4,616,520  Participants Program  @ Meter	n Total @ Generator 2,691.38 0.00 4,875,045  1,460 n Total @ Generator			
Summer k\ Winter kW Annual kW Annual De Summer k\ Winter kW Annual kW	W Reduction Reduction Th Reduction Themand and Energy W Reduction Reduction	rgy Savings	Per In: @ Meter 1.72 0.00	© Generator 1.84 0.00	Program  @ Meter  2,508.28 0.00 4,616,520  Participants Program  @ Meter  2,508.28 0.00	m Total @ Generator 2,691.38 0.00 4,875,045  1,460 m Total @ Generator 2,691.38 0.00			
Summer k\ Winter kW Annual kW Annual De Summer k\ Winter kW Annual kW	W Reduction Reduction Th Reduction  mand and Ener W Reduction Reduction Th Reduction	rgy Savings (\$):	Per In: @ Meter 1.72 0.00	© Generator 1.84 0.00	Program  @ Meter  2,508.28 0.00 4,616,520  Participants Program  @ Meter  2,508.28 0.00 4,616,520	m Total @ Generator 2,691.38 0.00 4,875,045  1,460 m Total @ Generator 2,691.38 0.00			

				Demand Side M	lanagement Annual	Report			
Utility: Program N Program S Reporting	Start Date:	Tampa Electric C ENERGY STAR November 2020 Annual 2023		3					
Year 2015 2016 2017	b Total Number of Customers	c Total Number of Eligible Customers	d Total Number of Projected Participants	e Projected Cumulative Number of Program Participants	f Projected Cumulative Penetration Level % [(e/c)x100]	g Actual Annual Number of Program Participants	h Actual Cumulative Number of Program Participants	i Actual Cumulative Penetration Level % [(h/c)x100]	j Actual Participation Over (Under) Projected Participants (h-e)
2018				_					
2019 2020	691,719	691,719	5	Program w 5	as started on Noven	nber 2, 2020 42	42	0.0%	37
2020 2021 2022 2023 2024	704,770 721,172 736,127	704,770 721,172 736,127	1,000 1,040 1,300	1,005 2,045 3,345	0.0% 0.1% 0.3% 0.5%	950 1,403 1,505	992 2,395 3,900	0.0% 0.1% 0.3% 0.5%	37 (13) 350 555
Summer k' Winter kW	emand and Ene W Reduction / Reduction /h Reduction	rgy Savings - 2020		stallation  @ Generator 0.25 0.00 277	Participants Program  Meter  355.18 0.00 394,310	1,505 m Total @ Generator 381.11 0.00 416,391			
Annual De	emand and Ene	rgy Savings			Participants Program				
Winter kW	W Reduction Reduction h Reduction				@ Meter 355.18 0.00 394,310	@ Generator 381.11 0.00 416,391			
Total Prog	t per Installation ram Cost of the its of Measures I		porting Period (\$	5000):	78 117.4 53.7				

Liene.									
Utility:		Tampa Electri	ic Company						
Program Na	ame:		L HEATINĞ AN	D COOLING					
Program St	tart Date:	July 2000							
Reporting F	Period:	Annual 2023							
а	b	С	d	е	f	g	h	i	j
				Projected	Projected	Actual	Actual	Actual	Actual Participation
		Total	Total	Cumulative	Cumulative	Actual	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
Voor		•	Participants	•		Participants	Participants	[(h/c)x100]	•
Year 2015	Customers 628,392	Customers 628,392	3,840	Participants 3,840	[(e/c)x100] 0.6%	5,214	5,214	0.8%	(h-e) 1,374
2015	640,090	640,090	3,480	7,320	1.1%	3,693	8,907	1.4%	1,587
2010	651,770	651,770	4,200	11,520	1.8%	3,341	12,248	1.9%	728
2017	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
2020	704,770	704,770	3,230	25,650	3.6%	2,839	25,674	3.6%	24
2022	721,172	704,770	2,930	28,580	4.0%	2,643	28,317	3.9%	(263)
2022	736,127	736,127	1,800	30,380	4.1%	1,681	29,998	4.1%	(382)
2023	700,127	100,121	1,000	30,300	7.170	1,001	20,000	7.170	(302)
	mand and Enei	rgy Savings - 2			Participants	1,681			
	mand and Ene	rgy Savings - 2	Per In	stallation	Progran	n Total			
Annual De		rgy Savings - 2	Per In @ Meter	stallation @ Generator	Progran  @ Meter	n Total @ Generator			
<b>Annual De</b> Summer kV	W Reduction	rgy Savings - 2	Per In  @ Meter  0.20	stallation  @ Generator 0.21	Program @ Meter 327.80	m Total  @ Generator  351.72			
<b>Annual De</b> Summer kV Vinter kW	N Reduction Reduction	rgy Savings - 2	Per In @ Meter 0.20 0.21	stallation  @ Generator 0.21 0.22	Program @ Meter 327.80 347.97	m Total @ Generator 351.72 373.37			
<b>Annual De</b> Summer kV Winter kW	W Reduction	rgy Savings - 2	Per In  @ Meter  0.20	stallation  @ Generator 0.21	Program @ Meter 327.80	m Total @ Generator 351.72			
<b>Annual De</b> Summer kV Winter kW Annual kW	N Reduction Reduction		Per In @ Meter 0.20 0.21	stallation  @ Generator 0.21 0.22	Program @ Meter 327.80 347.97	m Total @ Generator 351.72 373.37			
<b>Annual De</b> Summer kV Winter kW Annual kW	N Reduction Reduction h Reduction		Per In @ Meter 0.20 0.21	stallation  @ Generator 0.21 0.22	Program  @ Meter  327.80 347.97 662,314  Participants Program	n Total @ Generator 351.72 373.37 699,404 1,681 n Total			
<b>Annual De</b> Summer kV Winter kW Annual kW <b>Annual De</b>	N Reduction Reduction h Reduction mand and Enei		Per In @ Meter 0.20 0.21	stallation  @ Generator 0.21 0.22	Program  @ Meter  327.80 347.97 662,314  Participants Program  @ Meter	n Total @ Generator 351.72 373.37 699,404 1,681 n Total @ Generator			
Annual De Summer kW Winter kW Annual kW Annual De Summer kW	N Reduction Reduction h Reduction mand and Ener		Per In @ Meter 0.20 0.21	stallation  @ Generator 0.21 0.22	Program @ Meter	n Total @ Generator 351.72 373.37 699,404  1,681 n Total @ Generator 351.72			
Annual De Summer kW Winter kW Annual kW Annual De Summer kW Winter kW	N Reduction Reduction h Reduction mand and Ener N Reduction Reduction		Per In @ Meter 0.20 0.21	stallation  @ Generator 0.21 0.22	Program @ Meter	n Total @ Generator 351.72 373.37 699,404  1,681 n Total @ Generator 351.72 373.37			
Annual De Summer kW Winter kW Annual kW Annual De Summer kW Winter kW	N Reduction Reduction h Reduction mand and Ener		Per In @ Meter 0.20 0.21	stallation  @ Generator 0.21 0.22	Program @ Meter	n Total @ Generator 351.72 373.37 699,404  1,681 n Total @ Generator 351.72			
Annual De Summer kV Winter kW Annual be Annual De Summer kV Winter kW Annual kW	W Reduction Reduction h Reduction mand and Ener W Reduction Reduction h Reduction per Installation	rgy Savings (\$):	Per In @ Meter 0.20 0.21	stallation  @ Generator 0.21 0.22	Program  @ Meter  327.80 347.97 662,314  Participants Program  @ Meter  327.80 347.97 662,314  175	n Total @ Generator 351.72 373.37 699,404  1,681 n Total @ Generator 351.72 373.37			
Annual De Summer kW Winter kW Annual De Summer kW Winter kW Winter kW Annual kW Utility Cost Total Progr	W Reduction Reduction h Reduction mand and Ener W Reduction Reduction h Reduction	rgy Savings (\$): Utility (\$000):	Per In  @ Meter  0.20 0.21 394	stallation  @ Generator 0.21 0.22 416	Program  @ Meter  327.80 347.97 662,314  Participants Program  @ Meter  327.80 347.97 662,314	n Total @ Generator 351.72 373.37 699,404  1,681 n Total @ Generator 351.72 373.37			

			Demand Side	Management Annua	al Report			
ame: tart Date: Period:			RIZATION					
b	С	d	е	f	g	h	i	j Actual
			Projected	Projected	Actual	Actual	Actual	Participation
	Total	Total	•	•				Over (Under)
Total								Projected
Number of				Level %			Level %	Participants
Customers	Customers	Participants	Participants	[(e/c)x100]	Participants	Participants	[(h/c)x100]	(h-e)
628,392	109,703	6,600	6,600	6.0%	7,912	7,912	7.2%	1,312
640,090	111,745	7,250	13,850	12.4%	5,495	13,407	12.0%	(443)
651,770	113,784	6,250	20,100	17.7%	6,550	19,957	17.5%	(143)
662,917	115,730	7,000	27,100	23.4%	7,389	27,346	23.6%	246
677,922	118,350	7,000	34,100	28.8%	6,740	34,086	28.8%	(14)
•					·			(4,754)
,	,	,	,		,	,		(7,881)
,								(6,662)
736,127	128,511	7,800	62,390	48.5%	8,258	56,186	43.7%	(6,204)
mand and Ene	rgy Savings - 2	Per In	stallation					
				,	*			
				,	,			
II Reduction		1,932	2,040	13,934,430	10,047,900			
mand and Enei	rgy Savings			Participants Progran	8,258 n Total			
				@ Meter	@ Generator			
N Reduction				4,409.77	4,731.69			
Reduction				5,309.89	5,697.52			
				15,954,456	16,847,906			
h Reduction								
h Reduction per Installation	(\$):			253				
				253 2,087.1				
t	Total Number of Customers 628,392 640,090 651,770 662,917 677,922 691,719 704,770 721,172 736,127  Weduction Reduction Reduction h Reduction mand and Energy	mand and Energy Savings  NEIGHBORH March 2008 Annual 2023  b c  Total Number of Customers 628,392 640,090 111,745 651,770 113,784 662,917 115,730 677,922 118,350 691,719 120,758 704,770 123,037 721,172 125,900 736,127  V Reduction Reduction Reduction In Reduction Mand and Energy Savings	March 2008   Annual 2023	Tampa Electric Company NEIGHBORHOOD WEATHERIZATION March 2008 Annual 2023  b	Tampa Electric Company arric Date:	NEIGHBORHOOD WEATHERIZATION   March 2008   March 2008	Tampa Electric Company   NEIGHBORH-OOD WEATHERIZATION   March 2008   Annual 2023   Annual 2023   Annual 2023   Annual 2023	Tampa Electric Company   NEIGHBORHOOD WEATHERIZATION   March 2008   Annual 2023   Annual 2023   Annual 2023   Annual 2023

				Demand Side N	/Janagement Annua	al Report			
Utility: Program N Program S Reporting I	tart Date:	Tampa Electri ENERGY PLA September 20 Annual 2023	NNER						
а	b	С	d	е	f	g	h	i	j
Year 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	Total Number of Customers 628,392 640,090 651,770 662,917 677,922 691,719 704,770 721,172 736,127	Total Number of Eligible Customers 628,392 640,090 651,770 662,917 677,922 691,719 704,770 721,172 736,127	Total Number of Projected Participants  1,000 1,000 1,000 1,000 1,250 750 900 650 700	Projected Cumulative Number of Program Participants 1,000 2,000 3,000 4,000 5,250 6,000 6,900 7,550 8,250	Projected Cumulative Penetration Level % [(e/c)x100]  0.2% 0.3% 0.5% 0.6% 0.8% 0.9% 1.0% 1.0% 1.1%	Actual Annual Number of Program Participants 1,088 910 574 747 897 138 98 341 480	Actual Cumulative Number of Program Participants 1,088 1,998 2,572 3,319 4,216 4,354 4,452 4,793 5,273	Actual Cumulative Penetration Level % [(h/c)x100] 0.2% 0.3% 0.4% 0.5% 0.6% 0.6% 0.7%	Actual Participation Over (Under) Projected Participants (h-e)  88 (2) (428) (681) (1,034) (1,646) (2,448) (2,757) (2,977)
Annual De	mand and Ene	rgy Savings - 2		<b>Plan</b> stallation	Participants Prograi	480 m Total			
			@ Meter	@ Generator	@ Meter	@ Generator			
	N Reduction		2.01	2.15	963.36	1,033.69			
Winter kW Annual kW	h Reduction		3.13 1,156	3.36 1,221	1,504.32 554,880	1,614.14 585,953			
Annual De	mand and Ene	rgy Savings, No	ote 1		Participants Program				
Summor k	N Reduction				@ Meter 963.36	@ Generator 1,033.69			
Winter kW					1,504.32	1,033.69			
	h Reduction				554,880	585,953			
Utility Cost	per Installation	(\$) Note 1:			719				
	ram Cost of the				2,960.6				
Net Benefit	ts of Measures I	nstalled During		· · · /	3,171.8				
	, 555.5 54564	apon total progr	a ooolo and k	an paraorpadori	•				

				Demand Side M	lanagement Annua	al Report			
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electri RESIDENTIAI November 202 Annual 2023	PRIME TIME	PLUS (Resident	ial Load Managem	ent)			
а	b	С	d	е	f	g	h	i	j
Year 2015	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participatior Over (Under Projected Participants (h-e)
2016 2017 2018 2019				Program w	ras started on Nove	ember 2, 2020			
2020			□		bravaht anta Draw	ram in Daaambar	2022		
2021 2022	721,172	721,172	15	st customer was	brought onto Prog 0.0%	ram in December	2022 1	0.0%	(14
2023 2024	736,127	736,127	450	465	0.1%	537	538	0.1%	`73
Summer kV Vinter kW	V Reduction	rgy Savings - 2		Plan stallation @ Generator 2.07 2.03 0	Participants Prograr  @ Meter 1,038.02 1,014.93 0	@ Generator 1,113.80 1,089.02 0			
Annual De	mand and Ene	rgy Savings, No	ote 1		Participants Program				
Winter kW	V Reduction Reduction h Reduction				@ Meter 1,038.02 1,014.93 0	@ Generator 1,113.80 1,089.02 0			
Total Progr Net Benefit	per Installation am Cost of the s of Measures I ity costs based	Utility (\$000): nstalled During	Reporting Perio	od (\$000):	2,649 1,425.0 20.4				

				Demand Side M	lanagement Annua	al Report			
Utility: Program N Program S Reporting I	tart Date:	Tampa Electri RESIDENTIAI March 2008 Annual 2023	c Company _ WINDOW RE	PLACEMENT					
а	b	С	d	е	f	g	h	i	j Actual
Year 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	Total Number of Customers 628,392 640,090 651,770 662,917 677,922 691,719 704,770 721,172 736,127	Total Number of Eligible Customers 619,895 629,783 640,046 649,710 662,898 674,817 685,993 701,219 715,123	Total Number of Projected Participants 1,608 1,584 1,800 1,600 1,800 1,775 1,400 1,100 1,350	Projected Cumulative Number of Program Participants 1,608 3,192 4,992 6,592 8,392 10,167 11,567 12,667 14,017	Projected Cumulative Penetration Level % [(e/c)x100] 0.3% 0.5% 0.8% 1.0% 1.3% 1.5% 1.7% 1.8% 2.0%	Actual Annual Number of Program Participants 1,811 1,417 1,482 1,817 1,878 1,875 1,176 1,051 1,236	Actual Cumulative Number of Program Participants 1,811 3,228 4,710 6,527 8,405 10,280 11,456 12,507 13,743	Actual Cumulative Penetration Level % [(h/c)x100] 0.3% 0.5% 0.7% 1.0% 1.3% 1.5% 1.7% 1.8% 1.9%	Participation Over (Under) Projected Participants (h-e)  203 36 (282) (65) 13 113 (111) (160) (274)
Summer k\ Winter kW	emand and Ener W Reduction Reduction 'h Reduction	rgy Savings - 2		Plan stallation @ Generator 0.14 0.44 248	Participants Program @ Meter 165.62 511.70 290,460	1,236 m Total @ Generator 177.71 549.06 306,726			
Annual De	emand and Ener	gy Savings			Participants	1,236			
Winter kW Annual kW Utility Cost Total Progr	W Reduction Reduction The Reduction The Per Installation The Total The Item Cost of the Item Cost of the Item Cost of Measures In	Útility (\$000):	Reporting Perio	d (\$000):	Program @ Meter  165.62 511.70 290,460  202 250.2 52.9	m Total @ Generator 177.71 549.06 306,726			

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	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 2022	84,093	84,093	400 700	5,518	6.6%	101	4,890	5.8%	(628)
2022	89,415 90,567	89,415 90,567	950	6,218 7,168	7.0% 7.9%	766 976	5,656 6,632	6.3% 7.3%	(562) (536)
2024	30,307	30,307	330	7,100	7.370	370	0,002	7.570	(556)
Annual Den	nand and Ener	gy Savings - 2	020-2029 DSM	<b>Plan</b> stallation	Participants Progre	976 m Total			
			@ Meter	@ Generator	@ Meter	@ Generator			
Summer kW	Reduction		0.09	0.10	90.77	97.12			
Winter kW F			0.09	0.10	91.74	98.17			
Annual kWh	Reduction		817	859	797,392	838,856			
Annual Dem	nand and Ener	gy Savings, No	ote 1		Participants	976 m Total			
I					@ Meter	@ Generator			
Summer kW	Reduction				90.77	97.12			
Winter kW F					91.74	98.17			
Annual kWh					797,392	838,856			
	er Installation (				573				
Net Benefits		nstalled During	Reporting Perio	( ' '	559.5 (145.0)				

Utility:

Program Name: Program Start Date:

Reporting Period:

May 1981

Annual 2023

	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 2020	82,359 83,332	82,359 83,332	2 1	30 31	0.0% 0.0%	1 0	7 7	0.0% 0.0%	(23) (24)
2020	84,093	84,093	1	32	0.0%	0	7	0.0%	(25)
2021	89,415	89,415	1	33	0.0%	0	7	0.0%	(26)
2023	90,567	90,567	1	34	0.0%	0	7	0.0%	(27)
2024	00,00.	00,00.	•	•	0.070	· ·	•	0.070	(=: /
Annual Dei									
	mand and Ener	gy Savings - 2	Per In:	stallation		0 m Total			
		gy Savings - 2	Per In:	stallation @ Generator	Progra  @ Meter	m Total @ Generator			
Summer kV	V Reduction	gy Savings - 2	Per In:  @ Meter  0.09	stallation @ Generator 0.10	Progra @ Meter 0.00	m Total  @ Generator 0.00			
Summer kV Winter kW	V Reduction	gy Savings - 2	Per In:	stallation @ Generator	Progra  @ Meter	m Total @ Generator			
Summer kV Winter kW Annual kWl	V Reduction Reduction h Reduction		Per In: @ Meter 0.09 0.09 817	Stallation  @ Generator 0.10 0.10	Progra @ Meter	m Total  @ Generator 0.00 0.00 0			
Summer kV Winter kW Annual kWl <b>Annual Del</b> Summer kV Winter kW	V Reduction Reduction h Reduction mand and Ener V Reduction		Per In: @ Meter 0.09 0.09 817	Stallation  @ Generator 0.10 0.10	Progra  @ Meter  0.00 0.00 0  Participants	m Total  @ Generator 0.00 0.00			
Summer kV Winter kW Annual kWl <b>Annual Der</b> Summer kV Winter kW Annual kWl	V Reduction Reduction h Reduction mand and Ener V Reduction Reduction h Reduction	gy Savings, No	Per In: @ Meter 0.09 0.09 817	Stallation  @ Generator 0.10 0.10	Progra  @ Meter  0.00 0.00 0  Participants Progra  @ Meter  0.00 0.00 0.00 0	m Total  @ Generator			
Summer kV Winter kW Annual kWI Annual Der Summer kV Winter kW Annual kWI	V Reduction Reduction h Reduction mand and Ener V Reduction Reduction h Reduction per Installation (	gy Savings, No	Per In: @ Meter 0.09 0.09 817	Stallation  @ Generator 0.10 0.10	Progra  @ Meter  0.00 0.00 0  Participants Progra  @ Meter  0.00 0.00 0 0	m Total  @ Generator			
Summer kV Winter kW Annual ber Annual Der Summer kV Winter kW Annual kWI Utility Cost Total Progra	V Reduction Reduction h Reduction mand and Ener V Reduction Reduction h Reduction per Installation ( am Cost of the L	gy Savings, No \$): Jtility (\$000):	Per In: @ Meter	estallation  @ Generator 0.10 0.10 859	Progra  @ Meter	m Total  @ Generator			
Summer kV Winter kW Annual ber Annual Der Summer kV Winter kW Annual kWI Utility Cost Total Progra Net Benefit	V Reduction Reduction h Reduction mand and Ener V Reduction Reduction h Reduction per Installation (	gy Savings, No (\$): Utility (\$000): Installed During	Per In:  @ Meter 0.09 0.09 817  ote 1	### Stallation  @ Generator  0.10 0.10 859  d (\$000):	Progra  @ Meter  0.00 0.00 0  Participants Progra  @ Meter  0.00 0.00 0 0	m Total  @ Generator			
Summer kV Winter kW Annual ber Annual Der Summer kV Winter kW Annual kWI Utility Cost Total Progra Net Benefit	V Reduction Reduction h Reduction mand and Ener V Reduction Reduction h Reduction per Installation ( am Cost of the U s of Measures Ir	gy Savings, No (\$): Utility (\$000): Installed During	Per In:  @ Meter 0.09 0.09 817  ote 1	### Stallation  @ Generator  0.10 0.10 859  d (\$000):	Progra  @ Meter	m Total  @ Generator			

Demand Side Management Annual Report

Tampa Electric Company
COMPREHENSIVE COMMERCIAL/INDUSTRIAL AUDIT

				Demand Side M	lanagement Annua	l Report			
Utility: Program Na Program St Reporting F	tart Date:	Tampa Electri COMMERCIA March 2008 Annual 2023	, ,						
а	b	С	d	е	f	g	h	i	j
Year 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	Total Number of Customers 80,277 80,875 81,532 81,740 82,359 83,332 84,093 89,415 90,567	Total Number of Eligible Customers 7,733 8,851 8,887 9,023 9,119 9,089 9,174 9,365 9,831	Total Number of Projected Participants  10 10 11 8 9 2 1 3 6	Projected Cumulative Number of Program Participants 10 20 31 39 48 50 51 54 60	Projected Cumulative Penetration Level % [(e/c)x100] 0.1% 0.2% 0.3% 0.4% 0.5% 0.6% 0.6% 0.6% 0.6%	Actual Annual Number of Program Participants  7 5 7 1 5 1 0 0 3	Actual Cumulative Number of Program Participants 7 12 19 20 25 26 26 26 29	Actual Cumulative Penetration Level % [(h/c)x100] 0.1% 0.1% 0.2% 0.2% 0.3% 0.3% 0.3% 0.3% 0.3%	Actual Participation Over (Under) Projected Participants (h-e) (3) (8) (12) (19) (23) (24) (25) (28) (31)
Annual Dei	mand and Ener	gy Savings - 2		Plan stallation	Participants Progran	3 n Total			
Summer kV	V Reduction		@ Meter 6.16	@ Generator 6.59	@ Meter 18.49	@ Generator 19.78			
Winter kW			2.48	2.65	7.43	7.94			
Annual kWI	h Reduction		17,863	18,792	53,589	56,376			
Annual Dei	mand and Ener	gy Savings, No	ote 1		Participants Progran				
Winter kW	V Reduction Reduction h Reduction				@ Meter 18.49 7.43 53,589	@ Generator 19.78 7.94 56,376			
Total Progra Net Benefit	per Installation ( am Cost of the l s of Measures Ir vings from meas	Utility (\$000): nstalled During	Reporting Perio	od (\$000):	2,071 6.2 3.9				

Program Na Program Sta Reporting P	art Date:	Tampa Electri CONSERVAT April 1991 Annual 2023							
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	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 1	16 17	0.0%	0	6 6	0.0%	(10)
2023 2024	90,567	90,567	1	17	0.0%	Ü	ь	0.0%	(11)
2024									
Annual Der	mand and Ener	gy Savings - 2	020-2029 DSM		Participants Program	0 m Total			
Annual Der	mand and Ener	gy Savings - 2	Per In	stallation	Prograi	m Total			
		gy Savings - 2	Per In  @ Meter	stallation @ Generator	Prograi @ Meter	m Total @ Generator			
Summer kW	√ Reduction	gy Savings - 2	Per In @ Meter 185.40	stallation  @ Generator 198.38	Program  @ Meter  0.00	m Total  @ Generator  0.00			
Summer kW Winter kW I	√ Reduction	gy Savings - 2	Per In  @ Meter	stallation @ Generator	Prograi @ Meter	m Total @ Generator			
Summer kW Vinter kW I Annual kWh	V Reduction Reduction n Reduction		Per In @ Meter 185.40 0.00 19,244	stallation  @ Generator 198.38 0.00	Program  @ Meter  0.00 0.00 0	m Total  @ Generator 0.00 0.00 0			
Summer kW Winter kW I Annual kWh	V Reduction Reduction		Per In @ Meter 185.40 0.00 19,244	stallation  @ Generator 198.38 0.00	Program  @ Meter  0.00 0.00 0  Participants	m Total @ Generator 0.00 0.00			
Summer kW Winter kW I Annual kWh	V Reduction Reduction n Reduction		Per In @ Meter 185.40 0.00 19,244	stallation  @ Generator 198.38 0.00	Program  @ Meter  0.00 0.00 0  Participants	m Total  @ Generator			
Summer kW Winter kW I Annual kWh	V Reduction Reduction n Reduction		Per In @ Meter 185.40 0.00 19,244	stallation  @ Generator 198.38 0.00	Program  @ Meter  0.00 0.00 0 Participants Program	m Total  @ Generator			
Summer kW Winter kW I Annual kWh <b>Annual Der</b> Summer kW	V Reduction Reduction n Reduction mand and Ener		Per In @ Meter 185.40 0.00 19,244	stallation  @ Generator 198.38 0.00	Program  @ Meter  0.00 0.00 0 Participants Program @ Meter	m Total  @ Generator			
Summer kW Winter kW I Annual kWh Annual Der Summer kW Winter kW I	V Reduction Reduction n Reduction mand and Ener		Per In @ Meter 185.40 0.00 19,244	stallation  @ Generator 198.38 0.00	Program  @ Meter  0.00 0.00 0 Participants Program @ Meter  0.00	m Total  @ Generator			
Summer kW Winter kW I Annual kWh Annual Der Summer kW Winter kW I Annual kWh	V Reduction Reduction In Reduction Mand and Ener V Reduction Reduction In Reduction In Reduction In Reduction In Reduction In Reduction	gy Savings, No	Per In @ Meter 185.40 0.00 19,244	stallation  @ Generator 198.38 0.00	Program  @ Meter	m Total  @ Generator			
Summer kW Winter kW I Annual ber Annual Der Summer kW Winter kW I Annual kWh Utility Cost I Total Progra	V Reduction Reduction In Reduction Mand and Ener V Reduction Reduction In Red	gy Savings, No (\$): Jtility (\$000):	Per In @ Meter	stallation @ Generator 198.38 0.00 20,245	Program @ Meter	m Total  @ Generator			
Summer kW Winter kW I Annual ber Annual Der Summer kW Winter kW I Annual kWh Utility Cost I Total Progra Net Benefits	V Reduction Reduction In Reduction Mand and Ener V Reduction Reduction In Red	gy Savings, No (\$): Utility (\$000): Installed During	Per In @ Meter 185.40 0.00 19,244	stallation @ Generator 198.38 0.00 20,245	Program  @ Meter	m Total  @ Generator			

Projected Projected Actual Actual Actual Partic	j tual ipation
Ac Projected Projected Actual Actual Actual Partic	ipation
Projected Projected Actual Actual Actual Partic	ipation
Number of Eligible Projected Program Level % Program Program Level % Partic	ected ipants -e) 107 (14) (30) (10) 0 (1) 28 44 138
Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 174  Per Installation Program Total	
@ Meter @ Generator @ Meter @ Generator	
Summer kW Reduction 0.98 1.05 170.52 182.46	
Winter kW Reduction 0.00 0.00 0.00 0.00	
Annual kWh Reduction 1,717 1,806 298,758 314,293	
Annual Demand and Energy Savings, Note 1  Participants 174  Program Total	
@ Meter @ Generator	
Summer kW Reduction 170.52 182.46	
Winter kW Reduction 0.00 0.00 Annual kWh Reduction 298,758 314,293	
Utility Cost per Installation (\$): 198	
Total Program Cost of the Utility (\$000):	
Net Benefits of Measures Installed During Reporting Period (\$000):	
Note 1: Savings from measured data	

Utility: Program N Program S <sup>a</sup> Reporting F	tart Date:	Tampa Electri COMMERCIA March 2008 Annual 2023	c Company L DEMAND RE	SPONSE					
а	b	С	d	е	f	g	h	i	j
Year 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	Total Number of Customers  80,277 80,875 81,532 81,740 82,359 83,332 84,093 89,415 90,567	Total Number of Eligible Customers 12,302 12,937 13,383 13,730 13,804 14,079 14,561 15,066 15,294	Total Number of Projected Participants  1 1 1 1 1 1 1 1 1	Projected Cumulative Number of Program Participants 1 2 3 4 5 6 7 8 9	Projected Cumulative Penetration Level % [(e/c)x100]  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.1	Actual Annual Number of Program Participants 4 0 0 1 0 0 0 0	Actual Cumulative Number of Program Participants 4 4 5 5 5 5 5 5 5	Actual Cumulative Penetration Level % [(h/c)x100] 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	Actual Participation Over (Under) Projected Participants (h-e)  3 2 1 1 0 (1) (2) (3) (4)
Annual De	mand and Enei	rgy Savings - 2		<b>Plan</b> stallation	Participants Program	0 Total			
			@ Meter	@ Generator	@ Meter	@ Generator			
	N Reduction		404.04	432.32	0.00	0.00			
Winter kW Annual kW	Reduction  h Reduction		404.04 30,298	432.32 31,873	0.00	0.00 0			
	mand and Ene	rgy Savings, No		01,070	Participants Program	0 Total			
Summer k\	W Reduction				@ Meter 0.00	@ Generator 0.00			
Winter kW					0.00	0.00			
	h Reduction				0	0			
Total Progr Net Benefit Note 1: Sa	per Installation cam Cost of the cs of Measures In vings from meas ity costs based	Utility (\$000): nstalled During l sured data		,	37,377 3,849.9 278.9				

				Demand Side M	lanagement Annua	al Report			
Utility: Program N Program S Reporting	start Date:	Tampa Electri FACILITY ENI November 202 Annual 2023	ERGY MANAGE	EMENT SYSTEM	М				
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 Participation Over (Under) Projected Participants (h-e)
2015 2016 2017 2018									
2019				•	as started on Nov	ember 2, 2020			
2020	83,332	83,332	2	2	0.0%	0	0	0.0%	(2)
2021	84,093	84,093	2 4	4	0.0%	2 2	2 4	200.0%	(2)
2022 2023 2024	89,415 90,567	89,415 90,567	60	8 68	0.0% 0.1%	26	30	400.0% 3000.0%	(4) (38)
Annual De	emand and Ener	rgy Savings - 20		<b>Plan</b> stallation	Participants Prograi	26 m Total			
			@ Meter	@ Generator	@ Meter	@ Generator			
	W Reduction		15.64	16.73	406.64	435.10			
	Reduction  /h Reduction		2.32 607,467	2.48 639,055	60.32 15,794,142	64.54 16,615,437			
Annual De	emand and Ener	rgy Savings, No	ote 1		Participants	26			
						m Total			
Cumama a r le	M Daduatian				@ Meter 406.64	@ Generator			
	W Reduction Reduction				406.64 60.32	435.10 64.54			
	/h Reduction				15,794,142	16,615,437			
Utility Cost	per Installation (	(\$):			23,857				
Total Prog	ram Cost of the l	Utility (\$000):			620.3				
	ts of Measures In vings from meas	•	Reporting Perio	d (\$000):	43.5				
	95 115111 111643	54 4414							

Utility:

Program Name: Program Start Date:

b

Reporting Period:

Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Cumulative Number of Program Participants	Cumulative Penetration Level % [(e/c)x100]	Annual Number of Program Participants	Cumulative Number of Program Participants	Cumulative Penetration Level % [(h/c)x100]	Over (Under) Projected Participants (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	89,415	856	0	1	0.1%	0	3	0.4%	2
2023 2024	90,567	839	0	1	0.1%	0	3	0.4%	2
<b>Annual Dem</b> Summer kW Winter kW R	Reduction	gy Savings - 2	020-2029 DSM Per Ins @ Meter 5,060.00 4,757.00	Plan stallation @ Generator 5,414.20 5,089.99	Participants Program @ Meter 0.00 0.00	0 n Total @ Generator 0.00 0.00			
Annual kWh			1,184,085	1,245,657	0.00	0.00			
Annual Dem	nand and Ener	gy Savings, N	ote 1		Participants Program	0 Total			
					@ Meter	@ Generator			
Summer kW	Reduction				0.00	0.00			
Winter kW R					0.00	0.00			
Annual kWh					0.00	0.00			
	er Installation (				784,878				
	m Cost of the U				22,761.4				
			Reporting Period	d (\$000):	1,186.0				
Note 1: Savi	ngs from meas								
	v acata basad i	inon total progr	om costs and to	tal participation					
Note 2: Utility	y cosis based i	apon total progr	am cosis and to	tai participation					

Demand Side Management Annual Report

Projected

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Actual

Actual

Actual Participation

g

Actual

Tampa Electric Company
INDUSTRIAL LOAD MANAGEMENT

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е

Projected

September 1999

Annual 2023

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				Demand Side M	lanagement Annua	al Report			
Utility: Program N Program Si Reporting I	start Date:	Tampa Electri COMMERCIA February 2018 Annual 2023	L STREET AND	O OUTDOOR LI	GHTING CONVER	SION			
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 Participation Over (Under) Projected Participants (h-e)
2015 2016									
2017				Program	was started in Fe	bruary 2018			
2018 2019	209,821 209,821	209,821 177,885	42,115 40,000	42,115 82,115	20.1% 46.2%	31,936 32,366	31,936 64,302	15.2% 36.1%	(10,179) (17,813)
2020 2021 2022 2023	209,821 209,821 209,821 209,821	145,519 120,050 50,819 8,827	40,000 24,000 50,819 8,827	122,115 146,115 196,934 205,761	83.9% 121.7% 387.5% 2331.0%	25,469 69,231 41,992 8,827	89,771 159,002 200,994 209,821	61.7% 132.4% 395.5% 2377.0%	(32,344) 12,887 4,060 4,060
Annual De	emand and Ener	rgy Savings - 2		<b>Plan</b> stallation	Participants Prograi	8,827 m Total			
			@ Meter	@ Generator	@ Meter	@ Generator			
	W Reduction		0.00	0.00	0.00	0.00			
	Reduction /h Reduction		0.13 576	0.14 606	1,173.99 5,084,352	1,256.17 5,348,738			
Annual De	emand and Ener	gy Savings, No	ote 1		Participants Program @ Meter	8,827 m Total @ Generator			
Winter kW	W Reduction Reduction /h Reduction				0.00 1,173.99 5,084,352	0.00 1,256.17 5,348,738			
Total Progr Net Benefit	t per Installation ram Cost of the I ts of Measures I emand and energ	Utility (\$000): nstalled During		,	1 12.6 13,420.0				

				Demand Side	Management Annua	al Report			
Utility: Program N Program S Reporting	tart Date:	Tampa Electri COMMERCIA January 1991 Annual 2023		CONDITIONED	SPACE				
а	b	С	d	е	f	g	h	i	j
Year 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	Total Number of Customers 80,277 80,875 81,532 81,740 82,359 83,332 84,093 89,415 90,567	Total Number of Eligible Customers 80,277 80,875 81,532 81,740 82,359 83,332 84,093 89,415 90,567	Total Number of Projected Participants  6 57 75 110 475 200 150 115 115	Projected Cumulative Number of Program Participants 6 63 138 248 723 923 1,073 1,188 1,303	Projected Cumulative Penetration Level % [(e/c)x100]  0.0% 0.1% 0.2% 0.3% 0.9% 1.1% 1.3% 1.3% 1.4%	Actual Annual Number of Program Participants 86 159 228 193 421 186 143 131 79	Actual Cumulative Number of Program Participants 86 245 473 666 1,087 1,273 1,416 1,547 1,626	Actual Cumulative Penetration Level % [(h/c)x100] 0.1% 0.3% 0.6% 0.8% 1.3% 1.5% 1.7% 1.7%	Actual Participation Over (Under) Projected Participants (h-e)  80 182 335 418 364 350 343 359 323
Annual De	emand and Enei	rgy Savings - 2		<b>Plan</b> stallation	Participants Prograr	79 n Total			
			@ Meter	@ Generator	@ Meter	@ Generator			
	W Reduction		15.51	16.60	1,225.29	1,311.06			
	Reduction /h Reduction		12.08 76,757	12.93 80,748	954.32 6,063,803	1,021.12 6,379,121			
Annual De	emand and Ener	rgy Savings, No	ote 1		Participants Prograr	79 m Total			
					@ Meter	@ Generator			
Summer k	W Reduction				1,225.29	1,311.06			
	Reduction				954.32	1,021.12			
	/h Reduction				6,063,803	6,379,121			
Utility Cost	per Installation	(\$):			3,846				
Total Prog	ram Cost of the I	Utility (\$000):			303.8				
Net Benefi	ts of Measures li vings from meas	nstalled During	Reporting Perio	d (\$000):	4,233.6				

				Demand Side N	/lanagement Annua	al Report			
Utility: Program N Program S Reporting	Start Date:	Tampa Electri COMMERCIA March 2008 Annual 2023	ic Company LL LIGHTING - L	JNCONDITIONI	ED SPACE				
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	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 2021	83,332 84,093	83,332 84,093	70 115	385 500	0.5% 0.6%	93 101	885 986	1.1% 1.2%	500 486
2021	89,415	89,415	85	585	0.0%	100	1,086	1.2%	501
2023	90,567	90,567	50	635	0.7%	38	1,124	1.2%	489
2024	,	,					.,		
Annual De	emand and Enei	gy Savings - 2	020-2029 DSM	Plan	Participants	38			
		-	Per In	stallation	Prograr	n Total			
			@ Meter	@ Generator	@ Meter	@ Generator			
	W Reduction		23.83	25.50	905.54	968.93			
	Reduction		23.83	25.50	905.54	968.93			
Annuai kw	/h Reduction		138,004	145,180	5,244,152	5,516,848			
Annual De	emand and Ener	gy Savings, N	ote 1		Participants	38			
					Prograr				
					@ Meter	@ Generator			
	W Reduction				905.54 905.54	968.93			
	Reduction  /h Reduction				905.54 5,244,152	968.93 5,516,848			
					-,,.02	2,3.0,0.0			
,	t per Installation	· · /			5,927				
	ram Cost of the I				225.2				
	its of Measures I		Reporting Perio	od (\$000):	3,089.0				
Note 1: Sa	vings from meas	sured data							

Reporting P	art Date: 'eriod:	March 2008 Annual 2023							
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	90,567	90,567	7	94	0.1%	6	45	0.0%	(49)
2024	50,007	50,007	•	04	0.170	O .	40	0.070	(40)
Annual Den	nand and Ener	gy Savings - 20			Participants	6			
Annual Den	mand and Ener	gy Savings - 20	Per In:	stallation	Progra	ım Total			
		gy Savings - 20	Per In:	stallation @ Generator	Progra  @ Meter	am Total @ Generator			
Summer kW	/ Reduction	gy Savings - 20	Per In:  @ Meter  39.29	stallation @ Generator 42.04	Progra @ Meter 235.74	m Total @ Generator 252.24			
Summer kW Vinter kW F	/ Reduction Reduction	gy Savings - 20	Per In: @ Meter 39.29 31.43	stallation  @ Generator  42.04  33.63	Progra @ Meter 235.74 188.58	am Total @ Generator 252.24 201.78			
Summer kW Vinter kW F	/ Reduction Reduction	gy Savings - 20	Per In:  @ Meter  39.29	stallation @ Generator 42.04	Progra @ Meter 235.74	m Total @ Generator 252.24			
Summer kW Vinter kW F Annual kWh	/ Reduction Reduction n Reduction	gy Savings - 20 gy Savings, No	Per In: @ Meter 39.29 31.43 98,486	stallation  @ Generator  42.04  33.63	Progra @ Meter	m Total @ Generator 252.24 201.78 621,644			
Summer kW Vinter kW F Annual kWh	/ Reduction Reduction n Reduction		Per In: @ Meter 39.29 31.43 98,486	stallation  @ Generator  42.04  33.63	Progra @ Meter	am Total  @ Generator  252.24  201.78  621,644  6  am Total			
Summer kW Winter kW F Annual kWh Annual Den	/ Reduction Reduction n Reduction mand and Ener		Per In: @ Meter 39.29 31.43 98,486	stallation  @ Generator  42.04  33.63	Progra @ Meter 235.74 188.58 590,916  Participants Progra @ Meter	am Total  @ Generator  252.24  201.78  621,644  6  am Total  @ Generator			
Summer kW Winter kW F Annual kWh Annual Den Summer kW	/ Reduction Reduction n Reduction mand and Ener / Reduction		Per In: @ Meter 39.29 31.43 98,486	stallation  @ Generator  42.04  33.63	Progra @ Meter	m Total  @ Generator  252.24 201.78 621,644  6 am Total  @ Generator  252.24			
Summer kW Vinter kW F Annual kWh Annual Den Summer kW Vinter kW F	/ Reduction Reduction n Reduction mand and Ener / Reduction Reduction		Per In: @ Meter 39.29 31.43 98,486	stallation  @ Generator  42.04  33.63	Progra @ Meter	@ Generator 252.24 201.78 621,644  6 am Total @ Generator 252.24 201.78			
Summer kW Winter kW F Annual kWh Annual Den Summer kW Winter kW F	/ Reduction Reduction n Reduction mand and Ener / Reduction Reduction		Per In: @ Meter 39.29 31.43 98,486	stallation  @ Generator  42.04  33.63	Progra @ Meter	m Total  @ Generator  252.24 201.78 621,644  6 am Total  @ Generator  252.24			
Summer kW Vinter kW F Annual kWh Annual Den Summer kW Vinter kW F Annual kWh	/ Reduction Reduction n Reduction mand and Ener / Reduction Reduction n Reduction on Reduction	gy Savings, No	Per In: @ Meter	stallation  @ Generator  42.04  33.63	Progra @ Meter	@ Generator 252.24 201.78 621,644  6 am Total @ Generator 252.24 201.78			
Summer kW Winter kW F Annual kWh Annual Den Summer kW Winter kW F Annual kWh Utility Cost p Fotal Progra	/ Reduction Reduction n Reduction mand and Ener / Reduction Reduction n Reduction on Reduction on Reduction on Reduction on Reduction on Cost of the U	rgy Savings, No (\$): Jtility (\$000):	Per In: @ Meter 39.29 31.43 98,486  ete 1	### Stallation  ### Generator  ### 42.04  ### 33.63  ### 103,607	Progra @ Meter	@ Generator 252.24 201.78 621,644  6 am Total @ Generator 252.24 201.78			
Summer kW Winter kW F Annual ben Summer kW Winter kW F Annual kWh Utility Cost p Total Progra Net Benefits	/ Reduction Reduction n Reduction mand and Ener / Reduction Reduction n Reduction on Reduction on Reduction on Reduction on Reduction on Cost of the U	gy Savings, No (\$): Utility (\$000): Installed During I	Per In: @ Meter 39.29 31.43 98,486  ete 1	### Stallation  ### Generator  ### 42.04  ### 33.63  ### 103,607	Progra @ Meter	@ Generator 252.24 201.78 621,644  6 am Total @ Generator 252.24 201.78			

Tampa Electric Company
COMMERCIAL OCCUPANCY SENSORS

Utility: Program Name:

Utility: Program N Program S Reporting	tart Date:	Tampa Electri COMMERCIA January 1988 Annual 2023		GEMENT- CYC	LIC				
а	b	С	d	е	f	g	h	i	j Actual
Year 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	Total Number of Customers 80,277 80,875 81,532 81,740 82,359 83,332 84,093 89,415 90,567	Total Number of Eligible Customers 80,277 80,875 81,532 81,740 82,359 83,332 84,093 89,415 90,567	Total Number of Projected Participants  0 0 0 0 0 0 0 0 0 0 0 0	Projected Cumulative Number of Program Participants  0 0 0 0 0 0 0 0 0 0	Projected Cumulative Penetration Level % [(e/c)x100] 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	Actual Annual Number of Program Participants  0 0 0 0 0 0 0 0 0 0 0	Actual Cumulative Number of Program Participants  0 0 0 0 0 0 0 0 0 0	Actual Cumulative Penetration Level % [(h/c)x100] 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	Participation Over (Under) Projected Participants (h-e)  0 0 0 0 0 0 0 0 0
Annual De	emand and Enei	rgy Savings - 2			Participants	0 m Total			
Annual De	emand and Enei	rgy Savings - 2		stallation	Prograi	0 <u>m Total</u> @ Generator			
Summer k'	W Reduction	rgy Savings - 2	Per In: @ Meter 13.20	stallation  @ Generator 14.12	Program @ Meter 0.00	m Total  @ Generator 0.00			
ummer k Vinter kW	W Reduction Reduction	rgy Savings - 2	Per In:  @ Meter  13.20  0.00	graduation  @ Generator 14.12 0.00	Program  @ Meter  0.00  0.00	m Total  @ Generator 0.00 0.00			
Summer k' Vinter kW	W Reduction	rgy Savings - 2	Per In: @ Meter 13.20	stallation  @ Generator 14.12	Program @ Meter 0.00	m Total  @ Generator 0.00			
Summer k' Vinter kW Annual kW	W Reduction Reduction		Per In @ Meter 13.20 0.00 0	graduation  @ Generator 14.12 0.00	Program  @ Meter  0.00 0.00 0 Participants Program	m Total  @ Generator			
Summer k' Vinter kW Annual kW Annual De	W Reduction Reduction 'h Reduction		Per In @ Meter 13.20 0.00 0	graduation  @ Generator 14.12 0.00	Program  @ Meter  0.00 0.00 0  Participants	m Total  @ Generator			
Summer k' Vinter kW Annual kW Annual De Summer k'	W Reduction Reduction /h Reduction emand and Enei		Per In @ Meter 13.20 0.00 0	graduation  @ Generator 14.12 0.00	Program  @ Meter  0.00 0.00 0  Participants Program @ Meter	m Total  @ Generator			
Summer k' Winter kW Annual kW <b>Annual De</b> Summer k' Winter kW	W Reduction Reduction In Reduction Remand and Energy W Reduction		Per In @ Meter 13.20 0.00 0	graduation  @ Generator 14.12 0.00	Program  @ Meter  0.00 0.00 0  Participants Program @ Meter  0.00	m Total  @ Generator			
Summer k' Winter kW Annual kW <b>Annual De</b> Summer k' Winter kW Annual kW	W Reduction Reduction In Reduction Remand and Energy W Reduction Reduction In Reduction	rgy Savings, No	Per In @ Meter 13.20 0.00 0	graduation  @ Generator 14.12 0.00	Program  @ Meter  0.00 0.00 0  Participants Program  @ Meter  0.00 0.00 0	m Total  @ Generator			
Summer k' Winter kW Annual kW <b>Annual De</b> Summer k' Winter kW Annual kW	W Reduction Reduction Th Reduction  Th Reduction  W Reduction Reduction Th Reduction Th Reduction The Reduction The Reduction	rgy Savings, No (\$), Note 1:	Per In @ Meter 13.20 0.00 0	graduation  @ Generator 14.12 0.00	Program  @ Meter	m Total  @ Generator			
Summer k' Winter kW Annual kW Annual De Summer k' Winter kW Annual kW Utility Cost Total Prog	W Reduction Reduction In Reduction Remand and Energy W Reduction Reduction In Reduction	rgy Savings, No (\$), Note 1: Utility (\$000):	Per In @ Meter	stallation  @ Generator 14.12 0.00 0	Program  @ Meter  0.00 0.00 0  Participants Program  @ Meter  0.00 0.00 0	m Total  @ Generator			

Program S Reporting F		Tampa Electri COMMERCIA January 1988 Annual 2023		GEMENT- EXTE	ENDED				
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 <sup>′</sup>
	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	0.0% 0.0%	0
2020 2021	83,332 84,093	83,332 84,093	0	0	0.0% 0.0%	0	0	0.0%	0
2021	89,415	89,415	0	0	0.0%	0	0	0.0%	0
2023	90,567	90,567	0	0	0.0%	0	0	0.0%	0
2024	00,00.	00,00.	· ·	· ·	0.070	· ·	· ·	0.070	
Annual De	mand and Ener	gy Savings - 2			Participants	0			
Annual De	mand and Ener	gy Savings - 2	Per In	stallation	Progra	m Total			
		gy Savings - 2	Per In @ Meter	stallation @ Generator	Progra @ Meter	m Total @ Generator			
Summer k\	W Reduction	gy Savings - 2	Per In @ Meter 92.00	© Generator 98.44	Program @ Meter 0.00	m Total  @ Generator  0.00			
Summer k\ Winter kW	W Reduction	gy Savings - 2	Per In @ Meter	stallation @ Generator	Progra @ Meter	m Total @ Generator			
Summer k\ Winter kW Annual kW	N Reduction Reduction		Per In @ Meter 92.00 60.00	© Generator 98.44 64.20	Progra  @ Meter  0.00 0.00 0 Participants	m Total  @ Generator			
Summer k\ Winter kW Annual kW	N Reduction Reduction h Reduction		Per In @ Meter 92.00 60.00	© Generator 98.44 64.20	Progra  @ Meter  0.00 0.00 0 Participants Progra	m Total  @ Generator			
Summer k\ Winter kW Annual kW <b>Annual De</b>	N Reduction Reduction h Reduction mand and Ener		Per In @ Meter 92.00 60.00	© Generator 98.44 64.20	Progra  @ Meter  0.00 0.00 0  Participants Progra  @ Meter	m Total  @ Generator			
Summer k\ Winter kW Annual kW Annual De	W Reduction Reduction h Reduction mand and Ener W Reduction		Per In @ Meter 92.00 60.00	© Generator 98.44 64.20	Program @ Meter 0.00 0.00 0 Participants Program @ Meter 0.00	m Total  @ Generator			
Summer k\ Winter kW Annual kW Annual De Summer k\ Winter kW	W Reduction Reduction h Reduction mand and Ener W Reduction		Per In @ Meter 92.00 60.00	© Generator 98.44 64.20	Progra  @ Meter  0.00 0.00 0  Participants Progra  @ Meter	m Total  @ Generator			
Summer k\ Winter kW Annual kW Annual De Summer k\ Winter kW Annual kW	W Reduction Reduction h Reduction mand and Ener W Reduction Reduction	gy Savings	Per In @ Meter 92.00 60.00	© Generator 98.44 64.20	Program  @ Meter  0.00 0.00 0  Participants Program  @ Meter  0.00 0.00	m Total  @ Generator			
Summer k\ Winter kW Annual kW Annual De Summer k\ Winter kW Annual kW Utility Cost	W Reduction Reduction h Reduction mand and Ener W Reduction Reduction h Reduction	gy Savings (\$):	Per In @ Meter 92.00 60.00	© Generator 98.44 64.20	Program  @ Meter  0.00 0.00 0  Participants Program  @ Meter  0.00 0.00 0 0	m Total  @ Generator			

			De	mand Side Man	agement Annua	al Report			
Utility: Program N Program S Reporting F	tart Date:	Tampa Electri COMMERCIA November 202 Annual 2023	L SMART THEF	RMOSTATS					
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 Participation Over (Under) Projected Participants (h-e)
2015 2016 2017 2018									
2019				-	started on Nov				
2020 2021 2022 2023 2024	83,332 84,093 89,415 90,567	83,332 84,093 89,415 90,567	5 50 180 15	5 55 235 250	0.0% 0.1% 0.3% 0.3%	0 2 137 7	0 2 139 146	0.0% 0.0% 0.2% 0.2%	(5) (53) (96) (104)
Annual De	mand and Ener	rgy Savings - 2	020-2029 DSM	Plan	Participants	7			
		3, 11		stallation	Progra	m Total			
Winter kW	W Reduction Reduction h Reduction		@ Meter 11.13 4.06 14,600	@ Generator 11.91 4.34 15,359	@ Meter 77.91 28.42 102,200	@ Generator 83.36 30.41 107,514			
Annual De	mand and Ener	gy Savings				7 m Total			
Winter kW	N Reduction Reduction h Reduction				@ Meter 77.91 28.42 102,200	@ Generator 83.36 30.41 107,514			
Total Progr	per Installation ( ram Cost of the lats of Measures In	Jtility (\$000):	Reporting Period	d (\$000):	3,600 25.2 80.3				

Utility: Program N Program S Reporting l	start Date:	Tampa Electri STANDBY GE January 1991 Annual 2023							
а	b	С	d	е	f	g	h	i	j
Year 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	Total Number of Customers 80,277 80,875 81,532 81,740 82,359 83,332 84,093 89,415 90,567	Total Number of Eligible Customers  2,304 2,449 2,430 2,486 2,608 2,490 2,515 2,527 2,585	Total Number of Projected Participants  0 1 1 7 6 5 10 13	Projected Cumulative Number of Program Participants  0 1 2 3 10 16 21 31 44	Projected Cumulative Penetration Level % [(e/c)x100]  0.0% 0.1% 0.1% 0.4% 0.6% 0.8% 1.2% 1.7%	Actual Annual Number of Program Participants  4 0 6 1 9 14 6 2 17	Actual Cumulative Number of Program Participants  4 4 10 11 20 34 40 42 59	Actual Cumulative Penetration Level % [(h/c)x100] 0.2% 0.2% 0.4% 0.4% 1.4% 1.6% 1.7% 2.3%	Actual Participation Over (Under) Projected Participants (h-e)  4 3 8 8 10 18 19 11 15
Annual De	emand and Ene	rgy Savings - 2		<b>Plan</b> stallation	Participants Progra	17 m Total			
			@ Meter	@ Generator	@ Meter	@ Generator			
	W Reduction		263.94	282.42	4,486.98	4,801.07			
Winter kW			263.94	282.42	4,486.98	4,801.07			
Annual kW	h Reduction		26,394	27,766	448,698	472,030			
Annual De	emand and Ene	rgy Savings, No	ote 1			17 m Total			
					@ Meter	@ Generator			
	W Reduction				4,486.98	4,801.07			
Winter kW					4,486.98	4,801.07			
Annuai KW	h Reduction				448,698	472,030			
Utility Cost	per Installation	(\$) Note 2:			39.645				
	ram Cost of the				5,153.8				
	ts of Measures I		Reporting Perio	d (\$000):	6,188.4				
	vings from meas	•	,	(, )-	-,				
	lity costs based		am costs and to	tal participation					
	•								

Utility:

Drogram Na									
Program Na			REQUENCY DR	IVE CONTROL	FOR COMPRE	SSORS			
Program St		November 20	20						
Reporting P	eriod:	Annual 2023							
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	00.000	00.000	0	•	started on Nov	•	•	0.00/	(0)
2020	83,332	83,332	2	2	0.0%	0	0	0.0%	(2)
2021	84,093	84,093	2	4	0.0% 0.0%	1	1	0.0%	(3)
2022 2023	89,415 90,567	89,415 90,567	7 20	11 31	0.0%	21 16	22 38	0.0% 0.0%	11 7
2023	90,567	90,307	20	31	0.076	10	30	0.0%	1
2024									
Annual Der	mand and Fno	ray Savinas - 2	020-2029 DSM	Plan	Particinants	16			
Annual Der	mand and Ener	gy Savings - 2	<b>020-2029 DSM</b> Per In		Participants Progra	16 m Total			
Annual Der	mand and Ener	gy Savings - 2		Plan stallation @ Generator	Progra	16 <u>m Total</u> @ Generator			
	mand and Ener	rgy Savings - 2	Per In:	stallation	•	m Total			
Summer kV	V Reduction	rgy Savings - 2	Per In:	stallation @ Generator	Progra @ Meter	m Total @ Generator			
Summer kV Vinter kW I	V Reduction	rgy Savings - 2	Per In:  @ Meter 4.09	stallation  @ Generator 4.38	Progra @ Meter 65.44	m Total  @ Generator 70.02			
Summer kW Winter kW I Annual kWh	V Reduction Reduction		Per In: @ Meter 4.09 4.09 10,251	© Generator 4.38 4.38	Progra @ Meter 65.44 65.44 164,016  Participants	m Total @ Generator 70.02 70.02 172,545			
Summer kV Vinter kW I Annual kWh	V Reduction Reduction n Reduction		Per In: @ Meter 4.09 4.09 10,251	© Generator 4.38 4.38	Progra @ Meter 65.44 65.44 164,016 Participants Progra	m Total  @ Generator 70.02 70.02 172,545  16 m Total			
Summer kW Winter kW I Annual kWh	V Reduction Reduction n Reduction mand and Ener		Per In: @ Meter 4.09 4.09 10,251	© Generator 4.38 4.38	Progra @ Meter 65.44 65.44 164,016 Participants Progra @ Meter	m Total  @ Generator 70.02 70.02 172,545  16 m Total @ Generator			
Summer kW Winter kW I Annual kWh <b>Annual Der</b> Summer kW	V Reduction Reduction n Reduction mand and Ener V Reduction		Per In: @ Meter 4.09 4.09 10,251	© Generator 4.38 4.38	Progra @ Meter 65.44 65.44 164,016  Participants Progra @ Meter 65.44	m Total  @ Generator 70.02 70.02 172,545  16 m Total @ Generator 70.02			
Summer kW Winter kW I Annual kWh Annual Der Summer kW Winter kW I	V Reduction Reduction n Reduction mand and Ener V Reduction		Per In: @ Meter 4.09 4.09 10,251	© Generator 4.38 4.38	Progra @ Meter 65.44 65.44 164,016 Participants Progra @ Meter	m Total  @ Generator 70.02 70.02 172,545  16 m Total @ Generator			
Summer kW Winter kW I Annual kWh <b>Annual Der</b> Summer kW Winter kW I Annual kWh	V Reduction Reduction n Reduction mand and Ener V Reduction Reduction n Reduction	gy Savings, No	Per In: @ Meter 4.09 4.09 10,251	© Generator 4.38 4.38	Progra @ Meter 65.44 65.44 164,016  Participants Progra @ Meter 65.44 65.44 164,016	m Total  @ Generator 70.02 70.02 172,545  16 m Total @ Generator 70.02 70.02 70.02			
Summer kW Winter kW I Annual kWh Annual Der Summer kW Winter kW I Annual kWh	V Reduction Reduction n Reduction mand and Ener V Reduction Reduction	gy Savings, No	Per In: @ Meter 4.09 4.09 10,251	© Generator 4.38 4.38	Progra @ Meter 65.44 65.44 164,016  Participants Progra @ Meter 65.44 65.44	m Total  @ Generator 70.02 70.02 172,545  16 m Total @ Generator 70.02 70.02 70.02			

Demand Side Management Annual Report

Tampa Electric Company
VARIABLE FREQUENCY DRIVE CONTROL FOR COMPRESSORS

Program Na		•	c Company						
_	ime:		L WATER HEA	TING					
Program Sta		March 2008							
Reporting P	eriod:	Annual 2020							
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	<u>Participants</u>	<u>Participants</u>	[(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 1	8 9	0.0%	0	0	0.0%	(8)
2019	82,359	82,359	0	9	0.0% 0.0%	0	0	0.0% 0.0%	(9)
2020 2021	83,332 84,093	83,332 84,093	0	9	0.0%	0	0	0.0%	(9) (9)
2021	89,415	89,415	1	10	0.0%	0	0	0.0%	(10)
2022	90,567	90,567	1	11	0.0%	0	0	0.0%	(11)
2023	30,307	50,507	'		0.070	O	U	0.070	(11)
Annual Der	nand and Ener	gy Savings - 20	020-2029 DSM	Plan	Participants	0			
Annual Der	nand and Ener	gy Savings - 20		<b>Plan</b> stallation	•	0 m Total			
		gy Savings - 20	Per In  @ Meter	stallation @ Generator	Progra @ Meter	m Total @ Generator			
Summer kW	/ Reduction	gy Savings - 20	Per In @ Meter 0.87	stallation  @ Generator 0.93	Program @ Meter 0.00	m Total  @ Generator 0.00			
Summer kW Winter kW F	/ Reduction Reduction	gy Savings - 20	Per In  @ Meter  0.87  0.58	stallation  @ Generator 0.93 0.62	Program @ Meter	m Total  @ Generator 0.00 0.00			
Summer kW Winter kW F	/ Reduction Reduction	gy Savings - 20	Per In @ Meter 0.87	stallation  @ Generator 0.93	Program @ Meter 0.00	m Total  @ Generator 0.00			
Summer kW Winter kW F Annual kWh	/ Reduction Reduction Reduction		Per In @ Meter  0.87 0.58 5,128	stallation  @ Generator 0.93 0.62	Prograi @ Meter 0.00 0.00 0	m Total  @ Generator 0.00 0.00 0			
Summer kW Winter kW F Annual kWh	/ Reduction Reduction Reduction	gy Savings - 20 gy Savings - C	Per In @ Meter  0.87 0.58 5,128	stallation  @ Generator 0.93 0.62	Progra  @ Meter  0.00 0.00 0  Participants	m Total @ Generator 0.00 0.00 0			
Summer kW Winter kW F Annual kWh	/ Reduction Reduction Reduction		Per In @ Meter  0.87 0.58 5,128	stallation  @ Generator 0.93 0.62	Progra  @ Meter  0.00 0.00 0 Participants Progra	m Total  @ Generator			
Summer kW Winter kW F Annual kWh	/ Reduction Reduction Reduction		Per In @ Meter  0.87 0.58 5,128	stallation  @ Generator 0.93 0.62	Progra  @ Meter  0.00 0.00 0  Participants	m Total @ Generator 0.00 0.00 0			
Summer kW Winter kW F Annual kWh <b>Annual Der</b> Summer kW	/ Reduction Reduction Reduction Reduction mand and Ener / Reduction		Per In @ Meter  0.87 0.58 5,128	stallation  @ Generator 0.93 0.62	Progra  @ Meter  0.00 0.00 0  Participants Progra  @ Meter	m Total  @ Generator			
Summer kW Winter kW F Annual kWh Annual Der Summer kW Winter kW F	/ Reduction Reduction Reduction mand and Ener / Reduction Reduction		Per In @ Meter  0.87 0.58 5,128	stallation  @ Generator 0.93 0.62	Progra  @ Meter  0.00 0.00 0  Participants Progra  @ Meter  0.00	m Total  @ Generator			
Summer kW Winter kW F Annual kWh <b>Annual Der</b> Summer kW Winter kW F Annual kWh	/ Reduction Reduction Reduction mand and Ener / Reduction Reduction Reduction Reduction	gy Savings - C	Per In @ Meter  0.87 0.58 5,128	stallation  @ Generator 0.93 0.62	Progra  @ Meter  0.00 0.00 0  Participants Progra  @ Meter  0.00 0.00 0 0	m Total  @ Generator			
Summer kW Winter kW F Annual kWh Annual Der Summer kW Winter kW F Annual kWh	/ Reduction Reduction Reduction mand and Ener / Reduction Reduction Reduction Reduction Reduction	gy Savings - C	Per In @ Meter  0.87 0.58 5,128	stallation  @ Generator 0.93 0.62	Progra  @ Meter  0.00 0.00 0  Participants Progra  @ Meter  0.00 0.00 0 0	m Total  @ Generator			
Summer kW Winter kW F Annual kWh Annual Der Summer kW Winter kW F Annual kWh Utility Cost p Total Progra	/ Reduction Reduction Reduction mand and Ener / Reduction Reduction Reduction Reduction per Installation am Cost of the l	gy Savings - C	Per In  @ Meter  0.87 0.58 5,128  ombined	stallation  @ Generator 0.93 0.62 5,395	Progra  @ Meter  0.00 0.00 0  Participants Progra  @ Meter  0.00 0.00 0 0	m Total  @ Generator			

Tampa Electric Company
COMMERCIAL WATER HEATING

Utility:

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

Utility: TAMPA ELECTRIC COMPANY

### Residential

	Wint	ter Peak MW Red	duction	Sumi	mer Peak MW Re	duction	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	10.3	6.8	151.2%	12.5	2.9	429.5%	29.6	6.3	469.9%

### Commercial/Industrial

	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	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	7.2	1.8	398.1%	8.1	3.5	232.1%	30.3	9.9	305.6%	
2024										

### Combined

	Win	ter Peak MW Red	duction	Sumi	mer Peak MW Re	duction	GWh Energy Reduction		
		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	17.4	8.6	202.9%	20.6	6.4	321.6%	59.9	16.2	369.5%
2024									

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# TAMPA ELECTRIC COMPANY UNDOCKETED DSM ACCOMPLISHMENTS FILED: MARCH 1, 2024

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

Utility: TAMPA ELECTRIC COMPANY

Re		

	Winter Peak MW Reduction  Commission			Summer Peak MW Reduction Commission			GWh Energy Reduction 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	70.8	55.8	126.9%	64.4	23.2	277.6%	168.5	51.4	327.9%
2024									

### Commercial/Industrial

	Winter Peak MW Reduction  Commission			Summer Peak MW Reduction Commission			GWh Energy Reduction 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	85.1	14.7	578.7%	108.5	27.4	396.0%	272.1	77.8	349.8%
2024									

#### Combined

	Winter Peak MW Reduction Commission			Summer Peak MW Reduction Commission			GWh Energy Reduction 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	155.9	70.5	221.1%	172.9	50.6	341.8%	440.7	129.2	341.1%
2024									