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February 6, 2025

**VIA ELECTRONIC FILING**

Mr. Adam J. Teitzman
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Dkt. 20240163-EG – Petition for approval of proposed demand-side management plan and demand-side management program standards, by Tampa Electric Company

Dear Mr. Teitzman:

Attached for filing on behalf of Tampa Electric Company are the company's answers to Staff's First Data Request (Nos. 1-9) served via email on January 27, 2025.

Thank you for your assistance in connection with this matter.

Sincerely,

Malcolm N. Means

MNM/bml
Attachment

cc: Jacob Imig, FPSC
Saad Farooqi, FPSC
Orlando Wooten, Engineering Specialist, FPSC
TECO Regulatory

**TAMPA ELECTRIC COMPANY**
**DOCKET NO. 20240163-EG**
**STAFF'S FIRST DATA REQUEST**
**REQUEST NO. 1**
**BATES PAGE(S): 1 - 2**
**FILED: FEBRUARY 6, 2025**

**1.** Refer to pages 11 and 12 of the Company's DSM Plan. Please detail the differences in 2025-2034 DSM Plan numeric projected savings and the Commission-Approved 2025-2034 numeric conservation goals.

**A.** There are no differences between the numeric goals established in Order PSC-2024-0430-FOF-EG (2024 Goals Order) and what is proposed in Tampa Electric's 2025-2034 DSM Plan.

| Tampa Electric's 2025-2034 Proposed Residential DSM Goals at the Generator | | | |
|---|---|---|---|
| Year | Summer Demand (MW) | Winter Demand (MW) | Annual Energy (GWh) |
| | Incremental | Incremental | Incremental |
| 2025 | 7.9 | 14.0 | 24.8 |
| 2026 | 7.9 | 14.0 | 24.8 |
| 2027 | 8.8 | 14.6 | 25.4 |
| 2028 | 8.6 | 14.5 | 24.8 |
| 2029 | 8.6 | 14.5 | 24.8 |
| 2030 | 9.6 | 15.2 | 25.8 |
| 2031 | 9.5 | 15.1 | 25.3 |
| 2032 | 9.5 | 15.1 | 25.3 |
| 2033 | 9.6 | 15.2 | 25.8 |
| 2034 | 9.5 | 15.1 | 25.3 |

*Figure 1.1 Commission-Approved Residential Goals From Order PSC-2024-430-FOF-EG*

| Tampa Electric's 2025-2034 Proposed Commercial/Industrial DSM Goals at the Generator | | | |
|---|---|---|---|
| Year | Summer Demand (MW) | Winter Demand (MW) | Annual Energy (GWh) |
| | Incremental | Incremental | Incremental |
| 2025 | 6.4 | 5.4 | 22.2 |
| 2026 | 6.3 | 5.4 | 22.2 |
| 2027 | 6.9 | 5.9 | 22.3 |
| 2028 | 6.4 | 5.4 | 22.3 |
| 2029 | 6.4 | 5.4 | 22.3 |
| 2030 | 5.9 | 5.1 | 18.6 |
| 2031 | 5.4 | 4.6 | 18.6 |
| 2032 | 5.4 | 4.6 | 18.6 |
| 2033 | 6.0 | 5.1 | 18.6 |
| 2034 | 5.4 | 4.6 | 18.6 |

*Figure 1.2 Commission-Approved Commercial/Industrial Goals From Order PSC-2024-430-FOF-EG*

**2.** Please explain whether projected program savings for each of the programs is consistent with the anticipated program savings used in determining the DSM Goals established in Order PSC-2024-0430-FOF-EG (2024 Goals Order). For each program with variances, explain the cause of any differences.

**A.** The anticipated program savings using the DSM goals established in the 2024 Goals order is the same as the projected program savings.

**3.** Refer to pages 4 through 6 of the Company's DSM Plan. For the Energy Planner program and any other program modified from those used to establish goals in the 2024 Goals Order, explain any changes to the: program description, rebates, administrative expenses, projected savings and participation rates.

**A.** Changes to the Residential Price Responsive Load Management program (Energy Planner) were due to the outcome of Tampa Electric's rate case. The PSC denied Tampa Electric's request to adjust its time of use time periods in Order No. PSC-2025-0038-FOF-EI. As a result, the program time of use hours were reverted to those currently in effect with the 2015-2024 Demand Side Management Plan. No other program changes were made.

**4.** Please provide a comparison between the cost-effectiveness inputs used in the Company's DSM Plan and those used by the Company in Docket 20240014-EG. If there are any changes, provide an explanation for each change.

a. Provide a comparison between the cost-effectiveness results for the RIM and PCT of each proposed DSM program and the program used by the Company in Docket 20240014-EG.

**A.** There are no changes to the cost effectiveness inputs used between Tampa Electric's DSM Plan and those used in Docket No. 20240014-EG with the exception of the Neighborhood Weatherization participation that was increased to 8,000 in paragraph 4 of Order PSC-2024-0430-FOF-EG. The results provided below are unchanged from what was proposed.

# Tampa Electric's Cost-Effectiveness Inputs for 2025-2034 DSM Goals Setting

| **Line Losses and Outage Rate** | **units** |
|---|---|
| Residential Line loss percentage | 7.15 percent |
| Commercial/Industrial Line loss percentage | 7.00 percent |
| Forced outage rate | 3.4 percent |

| **Life & k factors** | **units** |
|---|---|
| Generator economic life | 25 years |
| T&D economic life | 25 years |
| k factor for generation | 1.3443 |
| k factor for T&D | 1.3443 |

| **Utility & Customer costs** | **units** |
|---|---|
| Utility cost escalation rate | 2.2 percent |
| Customer equipment escalation rate | 2.1 percent |
| Customer O&M escalation rate | 2.2 percent |
| Utility discount rate | 7.132 percent |
| Utility AFUDC rate | 5.89 percent |
| Utility rebate/incentive escalation rate | 0.0 percent |

| **Avoided generator, trans., & dist. Costs** | **units** |
|---|---|
| Base year | 2025 |
| In-service year for avoided generating unit | 2030 |
| In-service year for avoided T&D | 2026 |
| Base year avoided generating unit cost | $1,307.06/kW |
| Base year avoided transmission cost | $20.54/kW |
| Base year distribution cost | $179.45/kW |
| Gen., tran., & dist. cost escalation rate | 2.2 percent |
| Generator fixed O&M cost | $30.02/kW-yr |
| Generator fixed O&M escalation rate | 2.2 percent |
| Transmission fixed O&M cost | $3.29/kW-yr |
| Distribution fixed O&M cost | $10.52/kW-yr |
| T&D fixed O&M escalation rate | 2.2 percent |
| Avoided gen unit variable O&M costs | 0.241 cents/kWh |
| Generator variable O&M cost escalation rate | 2.2 percent |
| Generator capacity factor | 23.9 percent |
| Avoided generating unit fuel cost | 5.27 cents/kWh |
| Avoided gen unit fuel escalation rate | 2.61 percent |
| Avoided purchase capacity cost per kW | $0/kW-yr |
| Capacity cost escalation rate | 0.0 percent |

a. The table in attachment "Data Request Question 4a.pdf" provides a comparison between the goals testimony provided RIM and PCT cost-effectiveness results and those used for the DSM plan. The only notable change is in the Neighborhood Weatherization program's PCT score due to the increased participation goal.

| Comparison Between Cost-Effectiveness Scores of Proposed DSM Programs | | | | |
|---|---|---|---|---|
| **Program** | **Goals RIM** | **Goals PCT** | **Plan RIM** | **Plan PCT** |
| Residential Walk-Through Audit (Free Energy Check) | Cost-effectiveness not performed | | Cost-effectiveness not performed | |
| Residential Customer Assisted Energy Audit (Online) | Cost-effectiveness not performed | | Cost-effectiveness not performed | |
| Residential Computer Assisted Energy Audit (RCS)(Paid) | Cost-effectiveness not performed | | Cost-effectiveness not performed | |
| Residential Ceiling Insulation | 1.05 | 356 | 1.05 | 356 |
| Residential Duct Repair | 1.08 | 1,281 | 1.08 | 1,281 |
| Energy and Renewable Education, Awareness and Agency Outreach | 0.94 | 2,462 | 0.94 | 2,462 |
| ENERGY STAR for New Multi-Family Residences | 1.01 | 1,484 | 1.01 | 1,484 |
| ENERGY STAR for New Homes | 1.10 | 8,772 | 1.10 | 8,772 |
| ENERGY STAR Thermostats | 1.07 | 831 | 1.07 | 831 |
| Residential Heating and Cooling (Tier 1) | 1.87 | 13,177 | 1.87 | 13,177 |
| Residential Heating and Cooling (Tier 2) | 1.68 | 26,086 | 1.68 | 26,086 |
| Neighborhood Weatherization | 1.09 | 40,938 | 1.09 | 43,668 |
| Residential Price Responsive Load Management (Energy Planner) | 3.99 | 3,600 | 3.99 | 3,600 |
| Residential Prime Time Plus | 6.51 | 1,261 | 6.51 | 1,261 |
| Commercial/Industrial Audit (Free) | Cost-effectiveness not performed | | Cost-effectiveness not performed | |
| Comprehensive Commercial/Industrial Audit (Paid) | Cost-effectiveness not performed | | Cost-effectiveness not performed | |
| Cogeneration | Cost effectiveness not performed. Stand-alone comission approved program | | Cost effectiveness not performed. Stand-alone comission approved program | |
| Commercial Industrial Custom Energy Efficiency | 1.23 | 1,724 | 1.23 | 1,724 |
| Demand Response | 11.91 | 19,696 | 11.91 | 19,696 |
| Industrial Load Management (GSLM 2&3) | Cost-effectiveness not performed. Credit stipulated in settlement agreement | | Cost-effectiveness not performed. Credit stipulated in settlement agreement | |
| Lighting Conditioned Space | 1.36 | 8,695 | 1.36 | 8,695 |
| Lighting Non-Conditioned Space | 1.60 | 12,022 | 1.60 | 12,022 |
| Lighting Occupancy Sensors | 1.48 | 3,567 | 1.48 | 3,567 |
| Commercial Load Management (GSLM 1) Cyclic | 2.47 | 232 | 2.47 | 232 |
| Commercial Load Management (GSLM 1) Extended | 3.92 | 2,603 | 3.92 | 2,603 |
| Standby Generator | 25.96 | 28,390 | 25.96 | 28,390 |
| VFD and Motor Controls | 1.82 | 1,860 | 1.82 | 1,860 |
| Commercial Heat Pump Water Heater and Drain Water Heat Recovery | 1.37 | 375 | 1.37 | 375 |
| Conservation Research and Development | Cost-effectiveness not performed | | Cost-effectiveness not performed | |
| Renewable Energy Program (Sun to Go) | Cost effectiveness not performed. Stand-alone comission approved program | | Cost effectiveness not performed. Stand-alone comission approved program | |

**5.** Please explain any differences in administrative costs in TECO's proposed DSM Plan to the administrative costs approved in the 2024 Goals Order. This should include any changes to: methodology, items included in administrative cost calculations and any new efforts to reduce administrative costs.

**A.** There are no changes to the administrative costs used between the Tampa Electric's proposed DSM Plan to those approved in the 2024 Goals Order.

**TAMPA ELECTRIC COMPANY**
**DOCKET NO. 20240163-EG**
**STAFF'S FIRST DATA REQUEST**
**REQUEST NO. 6**
**BATES PAGE(S): 10 - 84**
**FILED: FEBRUARY 6, 2025**

Refer to the Company's DSM Plan's attached program standards, attached as Exhibit B, for the following questions:

**6.** For each program, provide a type and strike version of the DSM Plan that details any changes to the participation program standards (participation eligibility, rebate amounts, rebate eligibility and application requirements) of the proposed DSM program from the programs administratively approved in Docket 20200053-EG. If there are any changes, explain the changes for each applicable program.

**A.** Please refer to the attached document "Data Request Question 6 - Type and Strike DSM Standards.pdf"

A detailed description of all program changes was submitted beginning on Page 77 Line 15 of document # 01560-2024 in Docket 20240014-EG titled "*TECO (Means) - Petition for approval of numeric conservation goals; direct testimony of Mark R. Roche and Exh MRR-1*." The only changes not included are the requested numeric conservation goals for Neighborhood Weatherization stipulated in Issue 12 of the 2024 Goals Order. Please refer to the attached document "01560-2024.pdf"


# Tampa Electric Company

## Program Standards

## Ten-Year DSM Plan

~~2020-2029~~

~~August 21, 2020~~

# 2025-2034

## December 13th, 2024

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**Program: Residential Walk-Through Audit (Free Energy Check)**

**Program Participation Standards**

1. Participation is available to any residential customer located within Tampa Electric's service area.

2. Program requirements for participation follow guidelines set by Rule 25-17.003, F.A.C.

3. When applicable, customers are qualified for participation in other Tampa Electric conservation programs.

4. There is no payment processing with this program.

5. There are no technical specifications on equipment eligibility with this program.

6. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Residential Customer Assisted Energy Audit**

**Program Participation Standards**

1. Participation is available to any residential customer located within Tampa Electric's service area.

2. This audit will be offered to customers in response to a request for the service; however, it will not be offered in lieu of or used as a prerequisite for on-site audits.

3. There is no payment processing with this program.

4. There are no technical specifications on equipment eligibility with this program.

5. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Residential Computer-Assisted Energy Audit ("RCS")**

**Program Participation Standards**

1. Participation is available to any residential customer located within Tampa Electric's service area.

2. Program requirements for participation follow guidelines set by Rule 25-17.003, F.A.C.

3. In accordance with Tampa Electric's tariff, the customer is charged $15.00 for this audit.

4. When applicable, customers are qualified for participation in other Tampa Electric conservation programs.

5. There is no payment processing with this program.

6. There are no technical specifications on equipment eligibility with this program.

7. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Residential Ceiling Insulation**

**Program Participation Standards**

1. Participation is available to any existing residential customer located within Tampa Electric's service area. ~~Residences that have previously participated in any of Tampa Electric's ceiling insulation programs, new construction programs or have made room additions are not eligible to participate.~~

2. Rebate paid is $0.~~15~~16 per square foot of installed qualifying insulation. Total rebate is based on the total square footage of qualifying insulation installed over conditioned space and may be stacked in increments of R-11.

3. Residence must have electric whole-house air conditioning or heating.

4. Customers must add a minimum insulation value of R-11 based on the manufacturer's specification card. ~~Resulting total R-values achieved must be greater than or equal to R-30, unless spray foam is used where an R-value greater than or equal to R-20 will be acceptable. Where roof pitch limits accessibility, a resulting R-value of R-19 will be acceptable.~~

5. Insulation certificates will be issued through either energy audits or by direct verification of existing levels of insulation. The insulation certificate will be valid for 1 year from the date of issuance. Missing or lost certificates can be reissued and will be valid according to date of the original certificate.

6. The participating contractor will subtract the incentive to be paid by Tampa Electric from the customer's cost of installation.

7. In the event the contractor finds the accessible attic area requiring insulation to differ from that on the issued certificate and the difference would result in a change to the qualifying incentive amount, the contractor is required to provide a detailed explanation to Tampa Electric for this difference.

8. For homeowner installations, it is the homeowner's responsibility to ensure that the installation meets the product manufacturer's specifications, and to ensure that the resulting R-value meets all Tampa Electric specifications.

9. No payment shall be made by Tampa Electric until:
   - Customer or contractor submits a complete and correct insulation certificate and application to Tampa Electric.
   - Installation has passed Tampa Electric's verification process.

10. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of participating homes. Forms not selected for field verification will have an office verification to validate information.

11. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Residential Duct Repair**

**Program Participation Standards**

1. Participation is available to any existing residential customer located within Tampa Electric's service area and the home was constructed and received its certificate of occupancy prior to March 15, 2012. Homes constructed after this date are ineligible for this program.

2. This program is managed through a negotiated agreement between Tampa Electric and participating contractors for typical duct repairs.

3. Typical duct repairs are defined as labor and materials necessary to seal Air Distribution Systems ("ADS") to program standards and do not exceed one sheet of duct board.

4. Customers will pay no more than $125 per ADS for a standard repair under this program. Any non-standard repair costs will be negotiated between the participating customer and the contractor governed by the agreement between Tampa Electric and contractor.

5. ADS must be accessible for sealing and repair. The ADS is defined as the air handler, air ducts, return plenums, supply plenums and any connecting structure.

6. ADS certificates will be issued through either energy audits or by direct verification of existing ADS. The ADS certificate will be valid for 1 year from the date of issuance. Missing or lost certificates can be reissued and will be valid according to date of the original certificate.

7. Residences must have a working central ducted HVAC system with electric heating or air conditioning. Residences with non-electric heating are eligible. Conditions precluding participation will be initially identified.

8. Residences that have participated in Tampa Electric's duct repair programs or new construction programs where the rebate paid included sealing the ADS are not eligible.

9. Tampa Electric will appoint a participating licensed HVAC contractor to seal and repair existing ADS. HVAC contractor will seal and repair all accessible components of the ADS in the residence.

10. Sealing and repairs to ADS will use mastic techniques (adhesive with fibers embedded or adhesive with fabric reinforced tape). Air handler

panels/openings will be sealed with tape or other approved materials. If ducts are replaced, mastic must be used to seal all joints, connections and seams in the ADS.

11. No payment shall be made by Tampa Electric until:
    - Contractor submits a complete and correct invoice for repairs with correct ADS certificate to Tampa Electric.
    - Installation has passed Tampa Electric's verification process.

12. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating residences. Work orders not selected for field verification will have an office verification to validate information.

13. There are no technical specifications on equipment eligibility with this program.

14. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Energy and Renewable Education, Awareness and Agency Outreach**

**Program Participation Standards**

1. Participation is available to schools, civic groups, churches, government sponsored public events, homeowner associations, trade shows and professional associations. Energy education, renewable education and awareness presentations will be made. For qualifying agency outreach customers, a participating agency determines the customer's eligibility based on census data and the same standards used to provide other energy assistance.

2. Each presentation will include information that directly relates to recommendations currently provided with Tampa Electric's Energy Audits and information that supports renewable energy awareness.

3. Participating energy-related assistance agencies must be authorized by Tampa Electric to deliver the applicable portion of the program.

4. Residential customers located within Tampa Electric's service area that participate in the energy education and awareness presentation will be provided with an energy efficiency kit at no cost.

5. Qualified residential low income customers referred through an approved agency will be provided with an energy efficiency kit at no cost along with being offered a walk-through energy audit.

   Each kit will contain:
   - Four light emitting diode (LED) lamps to replace incandescent lamps with similar lumen outputs.
   - Two low-flow faucet aerators.
   - An air filter whistle to remind residents to clean or change filter monthly.
   - A hot water temperature card to check the water heaters temperature setting for opportunity for turn down.
   - A wall plate thermometer to check the accuracy of their existing thermostat setting.
   - No-cost energy efficiency recommendations that can be immediately adopted.

6. Each Tampa Electric customer will only be eligible for one energy efficiency kit from one of the following programs one time each year.
   - Energy and Renewable Education, Awareness and Agency Outreach.
   - Neighborhood Weatherization.

7. To be eligible for participation in the energy education electric vehicle driver's education portion of the program, the participating high school must meet all the following criteria:
    a. Complete the application.
    b. Agree that the electric vehicles provided will be used solely for the driver's education program.
    c. Agree that the school is responsible for the maintenance, operations and insurance of vehicles and the energy used to charge the vehicles.
    d. Offer driver's education program curriculum during each semester or quarter the school is in session.
    e. Agree to allow Tampa Electric to install or have charging stations installed on school premises and permit access to charging equipment for periodic inspections and maintenance by Tampa Electric personnel or its designated contractor.
    f. Agree to allow Tampa Electric to install a recording meter or individual sub-meters on the charging equipment.
    g. Make space available for an energy education kiosk on campus for energy efficiency and petroleum fuels conservation material.
    h. Make time available to preview this program to other schools that may participate in the program.

8. Students that solely participate in the energy education electric vehicle driver's education portion of the program are not eligible to receive the energy efficiency kit.

9. Tampa Electric will survey the students that participate in the energy education electric vehicle driver's education portion of the program for verification and validation.

10. Tampa Electric will survey 10 percent of the participating customers for verification and validation.

11. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-up Projection Filings.

**Program: ENERGY STAR for New Multi-Family Residences**

**Program Participation Standards**

1. Participation is available to any new multi-family residence located in Tampa Electric's service area. All individual homes within the same facility and each individual home or unit must receive the certificate to qualify.

2. Rebate: $~~300~~345 for a qualifying multi-family residence or unit receiving the ENERGY STAR Certificate.

3. The participant must be willing to provide accessibility for a walk through of the home to verify program standards.

4. The builder will be responsible for the installation of qualifying equipment or measures as well as the correction of any items necessary to meet the program standards.

5. No payment shall be made by Tampa Electric until:
   - A complete and correct application has been submitted to Tampa Electric within 90 days of receiving the ENERGY STAR Certificate
   - A copy of the actual ENERGY STAR Certificate for each multi-family residences or unit
   - A certified document showing that all the multi-family residences or units within the same facility qualify
   - Installation has passed Tampa Electric's verification process

6. Tampa Electric will randomly perform field verification on a minimum of 10 percent of the participating multi-family homes or units. Forms not selected for field review will have an office verification to validate information.

7. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: ENERGY STAR for New Homes**

**Program Participation Standards**

1. Participation is available to any new residence located in Tampa Electric's service area. The home must receive the certificate to qualify.

2. Rebate: $~~1,000~~425 for a qualifying home receiving the ENERGY STAR Certificate.

3. The participant must be willing to provide accessibility for a walk through of the home to verify program standards.

4. The builder will be responsible for the installation of qualifying equipment or measures as well as the correction of any items necessary to meet the program standards.

5. No payment shall be made by Tampa Electric until:
   - A complete and correct application has been submitted to Tampa Electric within 90 days of receiving the ENERGY STAR Certificate.
   - A copy of the actual ENERGY STAR Certificate.
   - Installation has passed Tampa Electric's verification process.

6. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating homes. Forms not selected for field verification will have an office verification to validate information.

8. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: ENERGY STAR ~~Pool Pumps~~Smart Thermostats**

**Program Participation Standards**

1. Participation is available to any existing residential customer located within Tampa Electric's service area.

~~2. Rebate: up to $350 per qualifying residential ENERGY STAR pool pump installed.~~

~~3. The qualifying pool pump shall be:~~
- ~~ENERGY STAR certified~~
- ~~New~~
- ~~For in-ground pools or spas~~
- ~~Used, rewound or refurbished pool pumps are not eligible~~
- ~~Commercial customers are not eligible for this program~~

~~4. No payment shall be made by Tampa Electric until:~~
- ~~A complete and correct application has been submitted to Tampa Electric within 90 days of installation date.~~
- ~~Certification that installed equipment meets program standards.~~
- ~~Installation has passed Tampa Electric's verification process.~~

~~5. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating residences. Forms not selected for field verification will have an office verification to validate information.~~

~~6. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.~~

~~**Program: ENERGY STAR Smart Thermostats**~~

~~**Program Participation Standards**~~

~~1. Participation is available to any existing residential customer located within Tampa Electric's service area.~~

2. ~~Rebate: up to $50~~22 per qualifying ENERGY STAR thermostat installed.

3. The qualifying smart thermostats shall be:
   - ENERGY STAR certified
   - New
   - Used or refurbished thermostats are not eligible
   - Commercial customers are not eligible for this program

4. The qualifying air conditioning systems that meet the requirements of the Smart Thermostat Program are:
   - Heat pumps: Split system / Package system
   - A geothermal system
   - A straight cool system with natural gas heating only
   - Window units and mini-split systems are not eligible

5. No payment shall be made by Tampa Electric until:
   - A complete and correct application has been submitted to Tampa Electric within 90 days of installation date.
   - Certification that installed equipment meets program standards.
   - Installation has passed Tampa Electric's verification process.

6. Tampa Electric will randomly perform field or virtual verifications on a minimum of 10 percent of the participating residences. Forms not selected for field verification will have an office verification to validate information.

7. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Residential Heating and Cooling**

**Program Participation Standards**

1. Participation is available to any existing residential customer located within Tampa Electric's service area.

~~2. Rebate: $135 per qualifying Heat Pump installed.~~
2. Rebate: Tier 1 - $40 per qualifying unit that meets or exceeds the current DOE energy conservation standard for residential central air conditioners and heat pumps or Florida Building Code by 1 SEER level or by 1 SEER2 level.

   Tier 2 - $550 per qualifying unit that meets or exceeds the current DOE energy conservation standard for residential central air conditioners and heat pumps or Florida Building Code by 2 SEER levels or by 2 SEER2 levels.

   Rebate tiers are not stackable.

3. The qualifying air conditioning systems that meet the requirements of the Heating and Cooling Program are:
   a. Heat pumps with an ARI SEER rating that exceeds the current DOE energy conservation standard for residential central air conditioners and heat pumps or Florida Building code, whichever is higher by equal to or greater than 1.00~~.~~ for Tier 1, or greater than or equal to 2.00 for Tier 2.
   b. A geothermal system with an ARI SEER rating that exceeds the current DOE energy conservation standard for residential central air conditioners and heat pumps or Florida Building code, whichever is higher by equal to or greater than 1.00 for Tier 1, or greater than or equal to 2.00 for Tier 2 utilizing an EER conversion of 0.8.
   c. A straight cool system with natural gas heating only with an ARI SEER rating that exceeds the current DOE energy conservation standard for residential central air conditioners and heat pumps or Florida Building code, whichever is higher by equal to or greater than 1.00~~.~~ for Tier 1, or greater than or equal to 2.00 for Tier 2.

4. Oil or electric resistance heat cannot be the primary heat source.

5. For a heat pump, the supplemental strip heating physically contained in the system shall be in accordance with the following nominal tonnage:
   - Up to 2.5 tons HVAC units: up to 5.0 kW.
   - 3 through 4.5 tons, HVAC units: up to 8.0 kW.
   - 5 ton HVAC units: up to 10 kW.

6. No payment shall be made by Tampa Electric until:
   - A complete and correct application has been submitted to Tampa Electric within 90 days of installation date.
   - HVAC contractor certification that installed equipment meets program standards.
   - Installation has passed Tampa Electric's verification process.

7. Tampa Electric will randomly perform field or virtual verifications on a minimum of 10 percent of the participating residences. Forms not selected for field or virtual verification will have an office verification to validate information.

8. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Neighborhood Weatherization**

**Program Participation Standards**

1. Participation is available to any qualified residential customer located within Tampa Electric's service area. Census data will be utilized to identify qualified residential blocks of low-income customers.

2. Homes that have previously participated in the company's weatherization program are not eligible.

3. Tampa Electric will deliver the following applicable measures to participating customers at no cost.
   - Residential Walk-Through Audit (Free Energy Check)
   - Duct Sealing
     - ADS must be accessible for sealing and repair. The ADS is defined as the air handler, air ducts, return plenums, supply plenums and any connecting structure.
     - Residences must have a working central ducted HVAC system with electric heating or air conditioning. Residences with non-electric heating are eligible. Conditions precluding participation will be initially identified.
     - Tampa Electric will appoint a participating HVAC contractor to seal and repair existing ADS~~.~~, including repairing up to one damaged duct run. HVAC contractor will seal and repair all accessible components of the ADS in the residence.
     - This measure is managed through a negotiated agreement between Tampa Electric and participating contractors for typical duct repairs.
     - Typical duct repairs are defined as labor and materials necessary to seal ADS to measure standards and do not exceed replacement of one continuous flex duct and/or one sheet of duct board.
     - Sealing and repairs to ADS will use mastic techniques (adhesive with fibers embedded or adhesive with fabric reinforced tape). Air handler panels/openings will be sealed with tape or other approved materials. If ducts are replaced, mastic must be used to seal all joints, connections and seams in the ADS.
   - Ceiling Insulation
     - An additional R-13 of ceiling insulation where the existing insulation is less than R-19. Any home where roof pitch limits accessibility, a lower R-value may be installed. Homes must have electric whole house air conditioning or heating.
   - Energy Efficiency Kit which will contain:
     - Six light emitting diode (LED) lamps to replace incandescent bulbs with similar lumens output.

- The installation of up to three low flow faucet aerators per household. Each aerator will be rated at 1 gallon per minute ("GPM").
- The installation of up to two low flow showerheads per household. The showerhead will be rated at 1.5 GPM.
- A brush for cleaning the refrigerator coil. The brush will be left at the residence and the customer will be educated on proper cleaning techniques.
- ~~The installation of a water heater wrap for an electric water heater manufactured prior to 1996.~~
- A temperature check and adjustment for water heaters.
- The installation of one switch cover wall plate thermometer will be provided per home.
- The installation of a maximum of two HVAC weather stripping kits where there are only wall/window air conditioning units in use.
- For central HVAC units, a filter whistle will be provided to help remind the resident to clean or change filter monthly.
- The installation of weather stripping, caulk and foam sealant to reduce or stop air infiltration around doors, windows, attic entries and where pipes enter the home.

4. Each customer will only be eligible for one Energy Efficiency Kit from one of the following programs one time each year:
   - Energy and Renewable Education, Awareness and Agency Outreach.
   - Neighborhood Weatherization.

5. No payment shall be made by Tampa Electric until:
   - Contractor submits a complete and correct invoice to Tampa Electric.
   - Installation has passed Tampa Electric's verification process.

6. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating residences. Work orders not selected for field verification will have an office verification to validate information.

7. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Price Responsive Load Management (Energy Planner)**

**Program Participation Standards**

1. Applicable to any residential customer located in Tampa Electric's service area. Customers must sign applicable tariff agreement.

2. Customers participating on Tampa Electric's Net Metering program or Residential Prime Time Plus may not participate in Energy Planner.

3. Customers who opt out of an AMI meter do not qualify.

4. Residence must have a central heating and cooling system. Window units are not eligible.

5. Residence must be capable of meeting communication strength standards for energy management equipment and compatible with the company's communication technology protocol.

6. Electric water heaters, pool pumps or other devices controlled by equipment provided through the program must be no larger than 30 amps and 240 volts and must be compatible with the program management equipment.

7. Level 2 electric vehicle chargers controlled by equipment provided through the program must be between greater than 30 but less than 50 amps and 240 volts.

~~7.~~8. Existing metering equipment must be compatible with the program management equipment.

~~8.~~9. Summer rate period – May 1 through October 31.

~~9.~~10. Summer rate tiers will occur during the following times.

| | | |
|---|---|---|
| Week days | P 1 | 11 P.M. to 6 A.M. |
| | P 2 | 6 A.M. to 1 P.M. |
| | | 6 P.M. to 11 P.M. |
| | P 3 | 1 P.M. to 6 P.M. |
| Weekends | P 1 | 11 P.M. to 6 A.M. |
| | P 2 | 6 A.M. to 11 P.M. |

~~10.~~11. Winter rate period – November 1 through April 30.

~~11.~~12. Winter rate tiers will occur during the following times.

| | | |
|---|---|---|
| Week days | P 1 | 11 P.M. to 5 A.M. |
| | P 2 | 5 A.M. to 6 A.M. |
| | | 10 A.M. to 11 P.M. |
| | P 3 | 6 A.M. to 10 A.M. |
| Weekends | P 1 | 11 P.M. to 6 A.M. |
| | P 2 | 6 A.M. to 11 P.M. |

~~12.~~13. The pricing period for the following observed holidays will be the same as the weekend hour price levels: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

~~13.~~14. Critical price period (P 4) can occur at any time but will be limited to 1.5 percent of the year.

~~14.~~15. There are no customer participation fees for this program.

~~15.~~16. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Residential Prime Time Plus**

**Program Participation Standards**

1. Applicable to any residential customer located in Tampa Electric's service area. Customers participating on ~~Net Metering or~~ the Residential Price Responsive Load Management (Energy Planner) Program may not participate.

2. Customers who opt out of an AMI meter may not participate.

3. Customer owned equipment must be in proper operating order and compatible with the company's communication technology protocol.

4. Qualifying equipment includes:
   - Electric Water Heater
   - Central Air Conditioning
   - Central Heating/Heat Pump
   - Swimming Pool Pump
   - Level 2 Electric Vehicle Chargers

5. Electric water heaters and pool pumps controlled by equipment provided through the program must be no larger than 30 amps and 240 volts.

6. Level 2 electric vehicle chargers controlled by equipment provided through the program must be between greater than 30 but less than 50 amps and 240 volts.

7. Level 1 electric vehicle chargers (120V) do not qualify.

~~6.~~8. Residence must be capable of meeting communication strength standards for energy management communications and/or energy management equipment.

~~7.~~9. Tampa Electric will install energy management equipment at customer electric water heaters ~~and~~, pool pumps, and level 2 electric vehicle chargers to communicate demand response signals.

~~8.~~10. A Tampa Electric owned thermostat will be installed for central heating and cooling participation and must be compatible with the customer's unit.

~~9.~~11. Customer will be provided a secure portal to program to provide the ability to monitor thermostat operations.

~~10.~~12. Incentives will be applied as follows and per unit. Any combination of customer owned qualifying appliances listed below may be selected.

- Electric Water Heater – $ ~~3~~6.00
- Central Air Conditioning – $ ~~6~~12.00
- Central Heating/Heat Pump – $ ~~6~~12.00
- Swimming Pool Pump – $ 3.00
- Level 2 Electric Vehicle Charger – $9.00

~~11.~~13. Summer incentives will be applied May-October; Winter incentives will be applied November-April.

- Electric Water Heater will receive incentives year-round
- Central Air Conditioning will receive incentives May-October
- Central Heating/Heat Pump will receive incentives November-April
- Swimming Pool Pumps will receive incentives year-round
- Level 2 Electric Vehicle Charger will receive incentives year-round

~~12.~~14. Customer requests to opt out of a load control event will be initiated by the customer ~~through their secure portal.~~calling customer program support. One opt-out per control event per ~~year~~season will be permitted. Opt-outs in excess of that will result in the customer forfeiting the monthly incentive until the next participation in a control or for the remainder of the current season, whichever is shorter.

~~13.~~15. Incentives will commence once the equipment is installed.

~~14.~~16. Customers must consume a minimum of 400 kWh in a given month to receive the incentives for that month.

~~15.~~17. Control events for participating appliances could occur at any time due to emergencies on the Company's system, other requests for emergency power, or for economic dispatch.

~~16.~~18. Multiple control events could occur in the same day; however, the total duration will not exceed eight hours for Central Air Conditioning, Central Heating/Heat Pump or Swimming Pool Pumps. Electric Water Heater control frequency and duration is unlimited to support solar generation frequency control.

~~17.~~19. Annual control hours will not exceed 134; excluding electric water heaters.

~~18.~~20. There are no customer participation fees for this program.

~~19.~~21. Customer requests to be removed from the program will result in suspension of incentives. Customers are required to grant Tampa Electric access within 60 days to remove Company owned equipment from the residence.

~~20.~~22. Customers who request to be removed from the program are not eligible to resume participation at the same residence for a year.

~~21.~~23. Customers are required to notify Tampa Electric company if participating appliances are in disrepair or are replaced. The Customer is required to grant Tampa Electric access within 30 days to either remove Company owned equipment from the residence or reconnect the new appliance to the energy management equipment.

~~22.~~24. Customers must provide access to Tampa Electric owned equipment for inspections and/or replacement. Failure to provide access will result in suspension from the program and corresponding incentives will cease.

~~23. This program will be begin implementation upon the completion of Tampa Electric's AMI deployment.~~

~~24.~~25. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

~~**Program: Residential Window Replacement**~~

~~**Program Participation Standards**~~

~~1. Participation is available to any existing residential customer located within Tampa Electric's service area.~~

~~2. Rebate: $0.76 per square foot of qualifying window replacement installed.~~

~~3. Residence must have electric whole-house air conditioning or heating.~~

~~4. Qualifying windows must be National Fenestration Rating Council ("NFRC") rated with an NFRC label with a solar heat gain coefficient less than or equal to 0.35 and a U-Factor less than or equal to 0.60.~~

~~5. Sliding glass doors are eligible.~~

~~6. Rebate requests will only be considered for new windows not previously replaced or rebated.~~

~~7. No payment shall be made by Tampa Electric until:~~
- ~~A complete and correct application has been submitted to Tampa Electric within 90 days of installation date.~~
- ~~A copy of the itemized window invoice submitted to Tampa Electric along with window specifications.~~
- ~~Installation has passed Tampa Electric's verification process.~~

~~8. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of participating residences. Forms not selected for field verification will have an office verification to validate information.~~

~~9. The reporting requirements for this program will follow Rule 25-17.0021 (5),~~

~~F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.~~

**Program: Commercial/Industrial Audit (Free)**

**Program Participation Standards**

1. Participation is available to any commercial/industrial customer located within Tampa Electric's service area.

2. Program requirements for participation follow guidelines set by Rule 25-17.003, F.A.C.

3. When applicable, customers are qualified for participation in other Tampa Electric conservation programs.

4. There is no payment processing with this program.

5. There are no technical specifications on equipment eligibility with this program.

6. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Comprehensive Commercial/Industrial Audit (Paid)**

**Program Participation Standards:**

1. Participation is available to any commercial/industrial customer located within Tampa Electric's service area.

2. Program requirements for participation follow guidelines set by Rule 25-17.003, F.A.C.

3. When applicable, customers are qualified for participation in other Tampa Electric conservation programs.

4. The customer charge per audit is as follows:
   - $15.00 for customers on Rate Schedules GS or GST.
   - $45.00 for customers on Rate Schedules GSD, GSDT, SBF, SBFT, IS, IST and SBI whose monthly demands are less than 1,000 kW.
   - $75.00 for customers on Rate Schedules GSD, GSDT, SBF, SBFT, IS, IST and SBI whose monthly demands are 1,000 kW or higher.

5. Additional charges may apply for the following reasons:
   - Monitoring and verification analysis.
   - Time and depth of monitoring.
   - Level of expertise provided by analyst.

6. Recommendations may be made as a result of these audits that will require additional analysis and evaluation. When this occurs, the customer should contact an outside consultant or contractor for further study. If the customer requests Tampa Electric to perform the additional evaluation, the customer will be notified of the incremental testing costs and agree to the procedure and expense before testing begins.

7. Upon completion of the audit, the customer is provided a copy of the audit and an audit invoice or, upon request, key management personnel are presented with the results of the audit.

8. There is no payment processing with this program.

9. There are no technical specifications on equipment eligibility with this program.

10. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: ~~-~~Commercial ~~Chiller~~/ Industrial Custom Energy Efficiency**

**Program Participation Standards**

~~1.~~ Participation is available to ~~any~~ commercial/industrial ~~customer~~customers located ~~within Tampa Electric's service area.~~

~~2. Rebate: $50 per kW reduction over baseline where baseline is defined by the current Florida commercial building energy code.~~

~~3. Efficiency measurement for qualification will be the certified rating of the equipment at full load.~~

~~4. The following minimum efficiency qualifications for chillers are as follows:~~

| | | |
|---|---|---|
| **~~Water Cooled Centrifugal Chillers~~** | ~~< 300 tons~~ | ~~≤0.581 kW/ton (≥6.05 COP)~~ |
| | ~~≥300 tons and <600 tons~~ | ~~≤0.535 kW/ton (≥6.57 COP)~~ |
| | ~~≥ 600 Tons~~ | ~~≤0.535 kW/ton (≥6.57 COP)~~ |

| | | |
|---|---|---|
| **~~Water-Cooled Scroll or Screw Chillers~~** | ~~< 75 tons~~ | ~~≤0.706 kW/ton (≥4.98 COP)~~ |
| | ~~≥75 tons and <150 tons~~ | ~~≤0.679 kW/ton (≥5.178 COP)~~ |
| | ~~≥150 tons and < 300 tons~~ | ~~≤0.626 kW/ton (≥5.62 COP)~~ |
| | ~~≥300 tons <600 tons~~ | ~~≤0.581 kW/ton (≥6.06 COP)~~ |
| | ~~≥600 tons~~ | ~~≤.535 kW/ton (≥6.57 COP)~~ |

| | | |
|---|---|---|
| ~~**Air-Cooled Electric Chillers**~~ | ~~Any Size~~ | ~~≤ 1.081 kW/ton (≥3.25 COP)~~ |

~~5. No payment shall be made by Tampa Electric until:~~

- ~~A complete and correct application has been submitted to Tampa Electric within one year of installation date.~~
- ~~Application must include:~~
  - ~~Signature of customer or HVAC contractor certifying installed equipment meets program standards.~~
  - ~~Purchase receipt(s) and invoice(s) with itemized inventory of installed equipment detailing, equipment purchased, purchase price, date of purchase, quantity of equipment purchased.~~
  - ~~Certified efficiency data at standard rating conditions for the equipment.~~

~~•~~1. ~~Installation has passed~~ in Tampa Electric's ~~verification process~~service area.

~~5. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating customers. Applications not selected for field verification will have an office verification performed.~~

~~6. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.~~

~~**Program: Conservation Value**~~

~~**Program Participation Standards**~~

~~1. Participation is available to commercial/industrial customers located in Tampa Electric's service area.~~

2. ~~Maximum rebate: up to $92 per kW of demand reduction coincident with Tampa Electric's system peak over the determined baseline.~~ Tampa Electric will determine rebate qualification and ~~level~~amount by using the FPSC cost-effectiveness RIM and PCT tests as described in Rule 25-17.008, F.A.C. The ~~rebate level up to a maximum of $92 per kW will be determined by maintaining~~cost-effectiveness tests will be performed using the same inputs that establishes the program in during the DSM goals setting. The rebate amount will be set at the level of a two-year simple payback or a RIM ~~and PCT benefit-to-cost ratio of equal to or greater than 1.00~~score of 1.01, whichever is more restrictive.

3. Customer's simple payback period, including rebates, shall not be less than two years. In the event the level of rebate determined would reduce the simple payback of the project to less than two years, the level of rebate will be adjusted so that the simple payback of the project with the rebate applied is 2.00 years. At no time will a rebate be paid if the project by itself has a simple payback of less than two years. Demand reduction will be calculated based on Tampa Electric's system peaks for winter and/or summer. Summer peak is identified as August at 5:00 PM Monday through Friday. Winter peak is identified as January at 7:00 A.M. Monday through Friday.

~~4.~~ A minimum of ~~five~~one kW summer and/or winter demand reduction is required. ~~The five kW can be achieved aggregately if the following two conditions are met:~~

~~• The same technology is being installed in all of the sites.~~

~~•~~4. ~~The customer applying for the rebate is the premise owner for all of the aggregated sites.~~

5. Measure eligibility:
   a. Eligible Measures: Most commercially available and accepted demand reduction technologies are eligible for consideration including, but not limited to, ~~renewable energy sources~~reflective roof treatment, duct sealing, air sealing, refrigeration measures, non-conventional cooling systems, ~~water heating measures~~ and other measures not covered by any other Tampa Electric approved conservation program.
   b. Measure eligibility will be determined based on a project evaluation by

Tampa Electric's Commercial Energy Analyst

~~b.~~c. Ineligible Measures: This would include measures potentially in conflict with environmental regulations (CFCs, water conservation, indoor air quality, paint on roof products), on-site generation, emergency generation and cogeneration. If a measure qualifies for two rebates and/or incentives (Tampa Electric and another utility company), Tampa Electric will not pay its rebate so that a double payment is avoided. Additionally, customers that make operational (behavioral) modifications are not eligible.

~~c.~~d. Any measure undergoing R&D evaluations is not eligible.

6. Measures must comply with all applicable codes.

7. The baseline for measure evaluation will be the existing equipment efficiency unless the measure is covered by a minimum product standard or code for efficiency.

8. For Tampa Electric to consider measures for potential program participation, the customer must submit their proposal along with a project specification and/or preliminary engineering analysis with relevant demand and energy calculations prior to the purchase of the measure or any equipment necessary for the measure for operation. The engineering analysis may require a professional seal. Additional documentation or data may be requested if needed.

9. Measures producing a demand reduction of equal to or less than 50 kW ~~which have demonstrated 90 days of successful continued operation~~ will be issued a rebate after field verification.

10. Measures producing a demand reduction greater than 50 kW which have demonstrated 90 days of successful continued operation will receive 50 percent of the calculated rebate amount after field verification. The remaining rebate will be dispensed at the end of one year following final field verification for successful operation. The total amount of rebate determined may be adjusted based upon the actual performance of the measure.

11. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Commercial Cooling**

**Program Participation Standards**

1. Participation is available to any commercial/industrial customer located within Tampa Electric's service area.

2. Rebate: $19 per ton of capacity installed of qualifying air conditioning equipment.

3. Direct expansion air conditioning equipment is eligible for the rebate. Package terminal air conditioning units are not eligible for rebate.

4. Minimum qualifying equipment energy efficiency ratio (EER) rating shall exceed the current Florida Energy Building code by equal to or greater than 1.00.

5. Efficiency measurement for qualification will be the certified rating of the equipment at full load.

6.1. No payment shall be made by Tampa Electric until:

- A complete and correct application has been submitted to Tampa Electric within one year of installation date.
- Application must include:
  - Signature of customer or HVAC contractor certifying installed equipment meets program standards.
  - Purchase receipt(s) and invoice(s) with itemized inventory of installed equipment detailing, equipment purchased, purchase price, date of purchase, quantity of equipment purchased.
  - Certified efficiency data at standard rating conditions for the equipment.
- Installation has passed Tampa Electric's verification process.

7. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating customers. Applications not selected for field verification will have an office verification performed.

~~8. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.~~

**Program: Demand Response**

**Program Participation Standards**

1. Participation is available to firm commercial/industrial customers located in Tampa Electric's service area.

2. The customer incentive will be paid by Tampa Electric's vendor facilitating the program and be based on the monthly kW load reduction available at the customer's facility.

3. Participant must not be on any other Tampa Electric load control program.

4. Participant must provide a minimum of 25 kW of transferable load, aggregation of load from more than one facility is not eligible to meet this minimum transferable load threshold.

5. Generator installation and operation must comply with all applicable regulations, including air emission guidelines and EPA's rules.

6. Facilities that opt out of having an AMI meter are not eligible for participation.

7. Participant will sign an agreement with vendor to participate in the program.

8. Depending on customer metering, pulse initiated metering may be necessary at the customer facility.

9. Tampa Electric will perform field verifications on all installations.

10. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

~~**Program: Facility Energy Management System**~~

~~**Program Participation Standards**~~

~~1. Participation is available to any commercial/industrial customers located in Tampa Electric's service area.~~

~~2. All projects require pre-approval prior to purchasing and installing any equipment. After the application has been pre-approved by Tampa Electric, the customer will be notified in writing, assigned a project identification number, and given any specific instructions. The customer may then purchase and install the pre-approved equipment.~~

~~3. The Energy Management System ("EMS") must consist of a central operator's station that includes a central processing unit and is capable of monitoring all sensors and field devices in real time. The station must be accessible by a local or remote computer with a monitor and control all or part of a building's electrical load through the buildings energy consuming systems.~~

~~4. Significant software changes are eligible but not updates for a new version being released or an annual license.~~

~~5. Rebates will be paid for installed qualifying energy management systems based upon:~~
~~a. Rebate cannot exceed 50 percent of the project's cost based upon the cost of the EMS equipment or software costs.~~
~~b. Total rebate amount cannot exceed $25,000.~~

~~6. No payment shall be made by Tampa Electric until:~~
~~a. All pre-approval requirements were conducted.~~
~~b. Contractor or customer submits a complete and correct application to Tampa Electric.~~
~~c. Tampa Electric reserves the right to require additional information from the customer regarding the EMS equipment and purchase prior to any rebate being paid.~~
~~d. Installation has passed Tampa Electric's verification process.~~

~~7. Application must include:~~
~~a. Signature of customer certifying installed equipment meets all program standards.~~
~~b. Purchase receipt(s) and invoice(s) with itemized inventory of installed equipment detailing, equipment purchased, purchase price, date of purchase, quantity of equipment purchased and proof of~~

payment.

c. The application remains valid for one year from the date of the assigned project identification number.

8. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating customers. Applications not selected for field verification will have an office verification performed.

9. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True - up and Projection Filings.

**Program: Industrial Load Management (GSLM 2&3)**

**Program Participation Standards**

1. Participation is available to commercial/industrial customers located in Tampa Electric's service area with interruptible loads of 500 kW or greater and who sign a tariff agreement for the Purchase of Industrial Load Management or the Purchase of Industrial Standby and Supplemental Load Management Service.

2. Additional monthly customer charge is $200.00.

3. The initial term of service shall be 36 months. The term shall be automatically extended after the end of the initial term subject to notice requirements. In addition to committing to take service for an initial term of 36 months, the customer is required to give the company prior written notice of desire to cease service under this program of at least 36 months. Such notice shall be irrevocable unless the company and the customer should mutually agree to void the notice.

4. Customers served under this program may elect to have Tampa Electric minimize interruption through purchases of energy through the procedure described below. Such election must be made in writing to the Company and shall remain in effect until such time that the Company is notified in writing that the customer no longer desires that such procedure be employed by the Company.
    a. During periods when the Company would otherwise interrupt customers served under this program, the Company will attempt to purchase sufficient energy from other systems to prevent, in whole or in part, such interruptions. The customer agrees that whenever the Company is successful in making such purchases, the customer will pay as part of its monthly service bill, and extra per kilowatt-hour for each kilowatt-hour consumed during the time of such purchase. The extra charge per kilowatt-hour shall be the amount per kilowatt-hour paid to the outside source less the amount per kilowatt-hour otherwise billed under this program, plus 3 mills ($0.003) per kilowatt-hour.

5. The Contracted Credit Value ("CCV") paid for this service shall be established every year and identified in the company's annual ECCR Projection Filing.

6. The Initial Term of service for this program is 36 months and the CCV lock in period is 72 months. When the customer's Initial Term of service runs

out, that customer may commit to a new term of service of 36 months and their then current CCV will continue for the next 36 month term for a total application of that CCV of 72 months. At the end of 72 months, that customer may commit to another new term of service for 36 months and if so their new CCV shall be established at the level of the one on file at that time at the FPSC and will remain in effect for next 72 months, should they elect after 36 months for another new term of service. At any time, at the customer's discretion, the customer may request establishing a new CCV for their service and the CCV applied will be the one then on file at the FPSC. As a result of any such request, the new 72 month CCV will be applied along with a new term of service for 36 months that shall be established for that customer.

7. Tampa Electric will perform field verifications on all installations.

8. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

~~**Program: Street and Outdoor Lighting Conversion**~~

~~**Program Participation Standards**~~

~~1. Only active Non-Light Emitting Diode ("LED") luminaires, as identified in Tampa Electric's Street and Outdoor Lighting Conversion Program, to be converted to LED luminaires are eligible for this program.~~

~~2. The unamortized collection amount per luminaire converted is based upon the current remaining net book value of that luminaire at the time of conversion, up to $180.06 per eligible converted luminaire.~~

~~3. Upon completion of the five-year Street and Outdoor Lighting Conversion Program, the company shall notify the Florida Public Service Commission within 30 days.~~

~~4. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the converted LED luminaires. All luminaires not selected for field review will have an office verification to validate installation information.~~

~~5. Consistent with the programs approval on February 27, 2018 in Docket 20170199-EI, Order No. PSC-2018-0110-PAA-EI, the company will not count the energy or demand savings from this program toward contributions toward meeting Tampa Electric's Commission approved annual energy and demand saving's goals.~~

~~6. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.~~

**Program: Lighting Conditioned Space**

**Program Participation Standards**

1. Participation is available to existing commercial/industrial customers located in Tampa Electric's service area.

2. The rebate is eligible for existing lighting systems being retrofitted or upgraded to a more energy efficient lighting system. The new lighting system must be LED. New construction lighting systems are not eligible for this rebate. ~~The lighting system must use dedicated ballasts designed to operate one specific type and wattage of lamp.~~

3. ~~Compact fluorescent lamp~~Existing T12 fixtures will be rebated based off of an equivalent T8 wattage, which will be evaluated and approved by a Commercial Analyst.

~~3.~~4. Retrofit upgrades to LED within refrigerated display cases are eligible ~~if they are permanent and locking~~.

~~4.~~5. Retrofit upgrades shall be permanent and direct wired installations. ~~Lamp~~Standalone lamp replacements do not qualify.

~~5.~~6. Lighting system enhancements that provide energy savings solely due to behavior or operating hour changes are not eligible for this rebate.

~~6.~~7. Lighting systems that provide energy savings from add-on enhancement are not eligible for this rebate.

~~7.~~8. De-lamping is eligible for this rebate provided all of the following conditions are met:
   a. The lighting levels recommended by the Illuminating Engineering Society of North America ("IESNA") for that space type must be met.
   b. The post-retrofit lighting levels as measured at the working surface by a footcandle meter must be equal to or greater than the pre-retrofit lighting levels.
   c. All unused fixtures, lamp holders and ballasts must be removed from the space.

~~8.~~9. Rebate: $0.~~250~~400 per Watt reduction up to 50 percent of the project cost.

~~9.~~10. All lighting retrofit projects are subject to evaluation and approval by Tampa Electric prior to any rebate payment. A pre-approval certificate is issued by a Tampa Electric Representative. ~~–~~The application and pre-approval

certificate will be valid for one year from the date of issuance. Missing or lost certificates can be reissued and will be valid according to the date of the original certificate.

~~10.~~11. No payment shall be made by Tampa Electric until:

a. Pre-verification has been performed and approved by Tampa Electric.
b. Contractor or customer submits a complete and correct application to Tampa Electric.
c. Application must include:
   - Signature of customer certifying installed equipment meets program standards.
   - Purchase receipt(s) and invoice(s) with itemized inventory of installed equipment detailing, equipment purchased, purchase price, date of purchase, quantity of equipment purchased.
d. Installation has passed Tampa Electric's verification process.

~~11.~~12. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating customers. Applications not selected for field verification will have an office verification to validate information.

~~12.~~13. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Lighting Non-Conditioned Space**

**Program Participation Standards**

1. Participation is available to existing commercial/industrial customers located in Tampa Electric's service area.

2. The rebate is eligible for existing lighting systems being retrofitted or upgraded to a more energy efficient lighting system. The new lighting system must be LED. New construction lighting systems are not eligible for this rebate~~. The lighting system must use dedicated ballasts designed to operate one specific type and wattage of lamp~~.

3. ~~Compact fluorescent lamp fixtures, upgrading~~Upgrading T12 lighting systems, de-lamping, stadium lighting, sports field lighting, flagpole, signage and landscape lighting are not eligible for this rebate.

4. Retrofit upgrades shall be permanent and direct wired installations. ~~Lamp~~Standalone lamp replacements do not qualify.

5. Lighting system enhancements that provide energy savings solely due to behavior or operating hour changes are not eligible for this rebate.

6. Lighting systems that provide energy savings from add-on enhancement are not eligible for this rebate.

7. Rebate: $0.~~200~~350 per Watt reduction up to 50 percent of the project cost.

8. All lighting retrofit projects are subject to evaluation and approval by Tampa Electric prior to any rebate payment. A pre-approval certificate is issued by a Tampa Electric Representative. The application and pre-approval certificate will be valid for one year from the date of issuance. Missing or lost certificates can be reissued and will be valid according to the date of the original certificate.

9. No payment shall be made by Tampa Electric until:
   a. Pre-verification has been performed and approved by Tampa Electric.
   b. Contractor or customer submits a complete and correct application to Tampa Electric.
   c. Application must include:
      - Signature of customer certifying installed equipment meets program standards.

- Purchase receipt(s) and invoice(s) with itemized inventory of installed equipment detailing, equipment purchased, purchase price, date of purchase, quantity of equipment purchased.

d. Installation has passed Tampa Electric's verification process.

10. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating customers. Applications not selected for field verification will have an office verification to validate information.

11. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Lighting Occupancy Sensors**

**Program Participation Standards**

1. Participation is available to any existing commercial/industrial customer located within Tampa Electric's service area.

2. Facilities that have a floor area greater than or equal to 5,000 square feet and were constructed after March 15, 2012 are not eligible for this program.

3. Rebate: $~~40 for each qualifying occupancy sensor~~26 per kW of lighting controlled up to but not to exceed 50 percent of purchase price.

4. All installations must exceed current Florida Building Code.

~~5. Retrofit installations, where not required by ASHRAE 90.1-2016, are eligible.~~

~~6.~~5. Occupancy sensor installation shall be hardwired and permanent. Sensors must be new and installed in a manner that meets or exceeds applicable code. Plug based occupancy sensors are not eligible for rebate.

~~7. Lighting fixtures with built in occupancy sensors will not be rebated on a per fixture basis. Only the minimum necessary number of occupancy sensors to control the lighting for the given space will be rebated. The determination of the number of qualifying occupancy sensors eligible for rebate will be determined upon a field verification performed by a Tampa Electric Commercial Energy Analyst.~~

~~8.~~6. A pre-approval certificate must be issued by a Tampa Electric Representative prior to installation. The application and pre-approval certificate will be valid for one year from the date of issuance. Missing or lost certificates can be reissued and will be valid according to the date of the original certificate.

~~9.~~7. No payment shall be made by Tampa Electric until:
   a. Pre-verification has been performed and approved by Tampa Electric.
   b. Contractor or customer submits a complete and correct application to Tampa Electric.
   c. Application must include:
      - Signature of customer certifying installed equipment meets program standards.

- Purchase receipt(s) and invoice(s) with itemized inventory of installed equipment detailing, equipment purchased, purchase price, date of purchase, quantity of equipment purchased.
- Associated wiring diagram or control map for the lighting system.

d. Installation has passed Tampa Electric's verification process.

8. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating customers. Applications not selected for field verification will have an office verification to validate information.

9. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: Commercial Load Management (GSLM 1)**

**Program Participation Standards**

1. Participation is available to any commercial/industrial customers on firm rates located in Tampa Electric's service area.

2. Cyclic air-conditioning control is applicable to any customer served under rate schedule GS or GSD.

3. Extended control is applicable to any customer under rate schedule GS, GST, GSD, or GSDT that signs a tariff agreement for load management service.

4. Incentive: Cyclic control receives $~~35~~.00 per kW demand reduction per month during the summer; extended control receives $~~35~~.50 per kW demand reduction per month annually. Both incentives are applied to the customer's monthly bill.

5. Summer is April through October. Winter is November through March.

6. The company's prime use periods for normal control of the customer's equipment are as follows:
   - Summer - 2:00 P.M. to 10:00 P.M.
   - Winter - 6:00 A.M. to 11:00 A.M. and 6:00 P.M. to 10:00 P.M.

7. For cyclic control, the incentive is based on the nameplate electrical capacity of the controlled equipment.

8. For extended control, the incentive is based on the difference between the average hourly demand registered on the meter during the non-interrupted hours of the prime use periods and the average hourly demand registered during the interrupted hours.

9. Tampa Electric will perform field verifications on all installations.

10. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

~~**Program: Commercial Smart Thermostats**~~

~~**Program Participation Standard**~~

~~1. Participation is available to existing commercial/industrial customers located in Tampa Electric's service area.~~

~~2. All projects require pre-approval prior to purchasing and installing any equipment. After the application has been pre-approved by Tampa Electric, the customer will be notified in writing, assigned a project identification number, and given any specific instructions. The customer may then purchase and install the pre-approved equipment.~~

~~3. Qualifying Smart Thermostat must be:~~
- ~~Wi-Fi enabled device~~
- ~~Programmable and automatic adjustment of temperatures for optimal performance~~
- ~~Controlled remotely~~
- ~~Provide equipment use and temperature data~~

~~4. Rebates will be paid for installed qualifying commercial smart thermostats based upon:~~
   ~~a. Rebate cannot exceed 50 percent of the project's cost based upon the cost of the smart thermostat.~~
   ~~b. Total rebate amount cannot exceed $4,500.~~

~~5. No payment shall be made by Tampa Electric until:~~
   ~~a. All pre-approval requirements were conducted.~~
   ~~b. Contractor or customer submits a complete and correct application to Tampa Electric.~~
   ~~c. Tampa Electric reserves the right to require additional information from the customer regarding the smart thermostats and purchase prior to any rebate being paid.~~
   ~~d. Installation has passed Tampa Electric's verification process.~~

~~6. Application must include:~~
   ~~a. Signature of customer certifying installed equipment meets all program standards.~~
   ~~b. Purchase receipt(s) and invoice(s) with itemized inventory of installed equipment detailing, equipment purchased, purchase price, date of purchase, quantity of equipment purchased and proof of payment.~~
   ~~c. The application remains valid for one year from the date of the assigned project identification number.~~

~~7. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating customers. Applications not selected for field verification will have an office verification performed.~~

~~8. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True - Up and Projection Filings.~~

**Program: Standby Generator**

**Program Participation Standards**

1. Participation is available to commercial/industrial customers located in Tampa Electric's service area with on-site emergency, backup or standby generation.

2. Customers must submit the following to be considered for eligible participation in this program:
   - Signed tariff agreement.
   - Submit a completed application.
   - Submit a wiring diagram showing the connection point within the electrical system of the facility and in relation to the facilities main service.
   - Signed agreement to perform a load test during Tampa Electric's peak hours.
   - Signed agreement that Tampa Electric's metering, control, and communication equipment can be accessed at any time for maintenance and verification.

3. The normal facility load that can be served by the generator(s) must meet the following conditions:
   - Minimum of 25 kW demand of load transferred to generator(s), aggregation of load from more than one facility is not eligible to meet this minimum transferable load threshold.
   - Minimum of 50 percent load factor during Tampa Electric's designated peak periods.
   - Generator installation and operation must comply with all applicable regulations, including air emission guidelines and EPA's rules.

4. The initial transferable demand will be determined by a load test at the facility. No incentives will be paid until after this determination is performed.

5. The transferable demand cannot exceed the full load nameplate rating of the generator.

6. The transferable demand may be adjusted based upon one or more of the following conditions:
   - The actual transferred demand when participating either through a control or through a notch test is more than ten percent higher or lower than the initial load test.
   - Failure to participate in any control request or notch test.
   - The customer's demand during the company's peak hours drops below the transferable load determined by the initial or subsequent load tests.

- If transferrable load exceeds the billing kW in any given month.

7. The customer may request in writing that a load test be performed to determine a new transferable demand no more than once per year.

8. Incentive: $~~5.35~~6.15 per month per qualifying kW of average transferable demand of a customer's load to a standby generator(s) during the company's prime use periods.

9. Tampa Electric reserves the right to perform periodic notch tests of the system to verify the amount and availability of the transferable load amount. Notch tests will be treated as control requests.

10. Tampa Electric reserves the right to suspend incentives or remove customers from the program for non-compliance.

11. The company's prime use periods for normal transfer of the customer's load are as follows:
    - Summer - 2:00 P.M. to 10:00 P.M.
    - Winter - 6:00 A.M. to 11:00 A.M. and 6:00 P.M. to 10:00 P.M.

12. Summer is April through October. Winter is November through March.

13. The customer response time for load transfer to the generator(s) is a maximum of 30 minutes from time of notification.

14. Customers are responsible for wiring changes and controls necessary for their generator(s) to perform in accordance with program standards.

15. Tampa Electric will perform field verifications on all installations.

16. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program: ~~Variable Frequency Drive Control for Compressors~~VFD and Motor Controls**

**Program Participation Standards**

1. Participation is available to any commercial/industrial customers located in Tampa Electric's service area.

~~2. All projects require pre-approval prior to purchasing and installing any equipment. After the application has been pre-approved by Tampa Electric, the customer will be notified in writing, assigned a project identification number, and given any specific instructions. The customer may then purchase and install the pre-approved equipment.~~

~~3.~~2. Qualifying frequency drives must be new; used or refurbished equipment are not eligible.

~~4.~~3. Rebates will be paid based upon the Horse Power ('HP") ~~of compressors~~ being controlled and are paid $~~50~~75 per HP.

~~5.~~4. Qualifying variable frequency drive equipment ~~controlling compressors~~ must be electric and can include the following:

- Commercial ~~refrigerant for HVAC~~ cooling units
- Commercial chiller systems
- Commercial HVAC pumps
- Commercial refrigeration systems
- Compressed air systems
- Variable air volume systems
- Demand circulating system
- Escalator motors
- High efficiency exhaust hoods

5. No payment shall be made by Tampa Electric until:

~~6. No payment shall be made by Tampa Electric until:~~

~~a. All pre-approval requirements were conducted.~~

~~b.~~a. Contractor or customer submits a complete and correct application to Tampa Electric within one year of the installation date.

~~c.~~b. Tampa Electric reserves the right to require additional information from the customer regarding the variable frequency drive equipment and purchase prior to any rebate being paid.

~~d.~~c. Installation has passed Tampa Electric's verification process.

~~7.~~6. Application must include:

a. Signature of customer certifying installed equipment meets all

program standards.

b. Purchase receipt(s) and invoice(s) with itemized inventory of installed equipment detailing, equipment purchased, purchase price, date of purchase, quantity of equipment purchased and proof of payment.
c. The application remains valid for one year from the date of the assigned project identification number.

~~9.~~1. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating customers. Applications not selected for field verification will have an office verification performed.

~~10.~~2. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True - Up and Projection Filings.

**Program: Commercial Heat Pump Water ~~Heating~~ Heater and Drain Heat Recovery**

**Program Participation Standards**

Participation is available to any commercial/industrial customers located in Tampa Electric's service area.

~~1. Commercial and industrial Heat Recovery Units ("HRU") to be eligible must meet all of the following:~~
- ~~Be new and not refurbished or previously installed or used.~~
- ~~Rated according to the current AHRI Standard 470.~~

~~2.~~1. Commercial and industrial Heat Pump Water Heaters ("HPWH") to be eligible must meet all of the following:
- Be new and not refurbished or previously installed or used.
- ~~Have heat source based on ARI Standard 320 for water source heat pumps, ARI Standard 325 for ground water source heat pumps, ARI Standard 330 for ground source closed loop heat pumps~~Be Energy Star Certified or ~~ARI Standard 870 for performance rating of direct geo-exchange heat pumps.~~
- ~~Have~~have a minimum coefficient of performance of 3.00~~.~~
- Must be ANSI/AHRI 1300 and ASHRAE 118.1 certified.
- Commercial and industrial Drain Water Heat Recovery Units must be recovered from an electrical heated source.

~~3.~~2. Installing contractor or customer must be a licensed general contractor, mechanical contractor, air-conditioning contractor, or plumbing contractor and must adhere to all local, state, and federal codes for the specific installation.

~~4.~~3. Rebate: $~~0.0100~~10 per Btu up to a maximum rebate of 50 percent of the ~~total project~~equipment cost.

~~5.~~4. The water heating system must be electric and used to supply heated water to meet domestic or process water needs.

~~6.~~5. The customer's facility utilizing the water heating equipment must operate during Tampa Electric's peak summer hours (2:00 P.M. to 10:00 P.M.), April through October and winter hours (6:00 A.M. to 11:00 A.M. and 6:00 P.M. to 10:00 P.M.), November through March.

~~7.~~6. No payment shall be made by Tampa Electric until:
a. Contractor or customer submits a complete and correct application to Tampa Electric.
b. Application must include:

- Signature of customer certifying installed equipment meets program standards.
- Purchase receipt(s) and invoice(s) with itemized inventory of installed equipment detailing, equipment purchased, purchase price, date of purchase, quantity of equipment purchased.

c. Installation has passed Tampa Electric's verification process.

~~8.~~7. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participating customers. Applications not selected for field verification will have an office verification performed.

~~9.~~8. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

~~**Program: Integrated Renewable Energy System (Pilot)**~~

~~**Program Participation Standards**~~

~~The commercial/industrial Integrated Renewable Energy System Program is a five-year pilot program to study the capabilities and DSM opportunities of a fully integrated renewable energy system. The integrated renewable energy system will include an approximate 800 kW photovoltaic array, two-250 kW batteries, and several electric vehicle charging systems to charge electric vehicles, industrial vehicles, and auxiliary industrial vehicle batteries.~~

~~The pilot program will have two main purposes. The first main purpose is to evaluate the capability to perform demand response from the main batteries and each vehicle battery and to determine the preferred operating characteristics of a fully integrated renewable and energy storage system to leverage DSM opportunities. The second main purpose is to use the installation and its associated operational information as an education platform for commercial and industrial customers seeking information on this type of system and its benefits, concerns and capabilities. During the pilot, the company will schedule educational demonstrations to show how the system operates, steps a company would need to take to install this equipment, and how the company is leveraging this equipment to save energy and reduce demand. The projected cost to implement and manage the pilot program through the five-years is approximately $4 million dollars.~~

~~Tampa Electric will identify and report program expenses in the ECCR True-Up and Projection Filings.~~

**Program: Conservation Research and Development ("R&D")**

**Program Participation Standards**

Measures for R&D can be residential or commercial in nature and may be either new in the marketplace or existing measures which meet the criteria below:

- The proposed measure has the potential to affect Tampa Electric or its ratepayers.
- Sufficient data is not currently available to evaluate the impact of the proposed measure.
- Data on the proposed measure is available but is not relevant to the central Florida climate zone.

**Eligible Measures**

Most technology measures are eligible for consideration including renewable and green energy sources, energy efficient construction, heat recovery, space conditioning equipment, refrigeration, cooking, fuel cells, ventilation, pumps and fan efficiency, thermal energy storage systems, water heating, etc.

**Program: Renewable Energy (Sun to Go)**

**Program Participation Standards**

1. Participation is available to any customer located within Tampa Electric's service area.

2. Customers may purchase unlimited blocks of renewable energy. One block of renewable energy is defined as 200 kWh.

3. The cost per block of renewable energy is $5.00 and will be included in the customer's monthly electric bill.

4. Customer may make a one-time purchase of renewable energy for a designated event.

5. Service under this rate may be terminated by the customer with a two-month notice.

6. There are no technical specifications on equipment eligibility with this program.

7. The reporting requirements will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

Heat Recovery

15. Conservation Research and Development ("R&D")

16. Renewable Energy Program (Sun-To-Go)

**Q.** Do all of the DSM programs listed above pass the TRC and PCT test?

**A.** No. As I explained above with respect to the RIM portfolio, not all of these DSM programs in the TRC portfolio pass the TRC test, but the Commission has a history of including measures that do not pass cost-effectiveness in approved DSM plans. All of the DSM programs that are evaluated for cost-effectiveness performed all pass the PCT test.

**COMPARISON OF PROPOSED DSM PROGRAMS WITH TAMPA ELECTRIC'S CURRENT DSM PROGRAMS:**

**Q.** Please provide a comparison of the company's proposed DSM programs and Tampa Electric's current DSM portfolio of programs:

**A.** The comparison below lists each of the company's current DSM programs, describes any proposed changes to those programs, and, for the programs that are retiring, explains why they should be retired. The comparison also identifies the new programs that the company does not currently offer.

Finally, the comparison describes any settlement agreement requirements that impacted program design.

1. **Residential Walk-Through Audit (Free Energy Check)**
   - No modifications recommended.

2. **Residential Customer Assisted Energy Audit (Online)**
   - No modifications recommended.

3. **Residential Computer Assisted Energy Audit (RCS)(Paid)**
   - No modifications recommended.

4. **Residential Ceiling Insulation**
   - Increase the rebate to $0.16, from $0.15, per square foot of insulation installed.
   - Add requirement for installation minimum of R-11.
   - Enable rebates to be stacked in amounts of R-11 (i.e. – if customer installs R-22, customer will receive $0.32 per square foot of insulation installed.
   - Remove a restriction that makes premises that previously participated in the program ineligible.

5. **Residential Duct Repair**
   - Increase the rebate to $270, from $125, per air distribution system ("ADS") repaired.

**6. Energy and Renewable Education, Awareness and Agency Outreach**

- No modifications recommended.
- In the settlement that resolved Tampa Electric's 2021 base rate case, the company agreed to increase the number of energy efficiency kits provided to qualifying customers each year. Tampa Electric is proposing to maintain this higher level of energy efficiency kits being provided each year.

**7. ENERGY STAR for New Multi-Family Residences**

- Increase the rebate to $345, from $300, per qualifying multi-family residence receiving the ENERGY STAR Certificate.

**8. ENERGY STAR for New Homes**

- Decrease the rebate to $425, from $1,000, per qualifying new residence receiving the ENERGY STAR Certificate.

**9. ENERGY STAR Pool Pumps**

- The program will be retired at the end of 2024 when the Federal Energy Efficiency Requirements for pool pumps will require all pool pumps to be variable speed eliminating the need for this program.

**10. ENERGY STAR Thermostats**

- Decrease the rebate to $22, from $50, per qualifying ENERGY STAR thermostat installed.

**11. Residential Heating and Cooling**

- Split the existing program into two (2) Tiers.
- Tier 1: lower the rebate to $40, from $135, per qualifying air conditioning system.
- Maintain the existing energy efficiency requirement for Tier 1 qualifying air conditioner, which is to meet or exceed the current appliance SEER rating requirement by 1 SEER level (≥ 16 SEER) or by 1 SEER2 level (≥ 15.2 SEER2).
- Tier 2: increase the rebate to $550, from $135, per qualifying air conditioning system.
- Increase the existing energy efficiency requirement for Tier 2 qualifying air conditioner, to require participants to meet or exceed the current appliance SEER rating requirement by 2 SEER levels (≥ 17 SEER) or by 2 SEER2 level (≥ 16.2 SEER2).
- Add requirement that rebates are not stackable.

**12. Neighborhood Weatherization**

- Historically, if the customer had duct work that needed to be repaired (beyond sealing), Tampa Electric

would require the customer to repair the duct system before the company would install insulation and seal the duct system. Tampa Electric proposes to include repairs to up to one duct run within the program to enable some customers with damaged ducts to participate in the program. If this change is approved, the company intends to go back to prior customers that were disqualified from participation in the program to offer this repair work. The cost for this repair is approximately $500 per home. The company projects this situation will occur on about 10 percent of eligible homes.

- In the settlement that resolved Tampa Electric's 2021 base rate case, the company agreed to increase the number of customers receiving the Neighborhood Weatherization program. Tampa Electric is proposing to maintain this higher level of Neighborhood Weatherization being provided each year.

**13. Residential Price Responsive Load Management (Energy Planner)**

- Add electric vehicle charging appliances (Level 2 or greater) to the list of appliances that are eligible for the program.
- Change the Tier (Low, Medium, and High) hours of the

program to align with proposed time of use rate periods in the company's 2024 rate case filings, with one exception.

| | **Current Summer Hours** | **Proposed Summer Hours** |
|---|---|---|
| **Weekdays** | | |
| Low: | 11 P.M. – 6 A.M. | 10 A.M. – 5 P.M. |
| Medium: | 6 A.M. – 1 P.M.<br>6 P.M. – 11 P.M. | 9 P.M. – 10 A.M. |
| High: | 1 P.M. – 6 P.M. | 5 P.M. – 9 P.M. |

| | **Current Summer Hours** | **Proposed Summer Hours** |
|---|---|---|
| **Weekends and Holidays** | | |
| Low: | 11 P.M. – 6 A.M. | 10 A.M. – 5 P.M. |
| Medium: | 6 A.M. – 11 P.M. | 5 P.M. – 10 A.M. |
| High: | Not used | Not used |

| | **Current Winter Hours** | **Proposed Winter Hours** |
|---|---|---|
| **Weekdays** | | |
| Low: | 11 P.M. – 5 A.M. | 10 A.M. – 5 P.M. |
| Medium: | 5 A.M. – 6 A.M.<br>10 A.M. – 11 P.M. | 9 P.M.– 6 A.M. |
| High: | 6 A.M. – 10 A.M. | 6 A.M. – 10 A.M.<br>5 P.M. – 9 P.M. |

| | **Current Winter Hours** | **Proposed Winter Hours** |
|---|---|---|
| **Weekends and Holidays** | | |
| Low: | 11 P.M. – 6 A.M. | 10 A.M. – 5 P.M. |
| Medium: | 6 A.M. – 11 P.M. | 5 P.M. – 10 A.M. |
| High: | Not used | Not used |

The schedule above aligns the Low Tier with the Super-Off-Peak time of use period, Medium Tier with the Off- Peak period, and the High Tier with the Peak time of use period. The company does not propose any changes to the Critical Pricing Tier since that price is only reflected to participating customers during a load control event. The company's proposed new time of use periods and the Energy Planner hours do not align in one instance – the Peak period for 6am to 10am in the summer. Because this time window is not a peaking time for residential customers, the company is proposing that those summer morning hours remain in the Medium Tier (Off-Peak) for the Energy Planner program.

**14. Residential Prime Time Plus**

- Add electric vehicle charging appliances (Level 2 or greater) to the list of eligible appliances.
- Establish credit for electric vehicle charging appliances (Level 2 or greater) of $9 per month.
- Increase the credit for heating and cooling equipment

to $12, from $6, per month.

- Increase the credit for water heaters to $6, from $3, per month.
- Maintain the credit for pool pumps at $3 per month.

**15. Residential Window Replacement**

- Tampa Electric is proposing to discontinue this program because it is no longer cost-effective to offer. All of the permutations had failing TRC scores and failing PCT scores. The average TRC was 0.49 and the average PCT was negative 2,677.03. All permutations passed RIM at the Technical Potential level. The reason for the drop in cost effectiveness is a drop in winter kW from 0.41 kW in the prior DSM Plan to the current level of 0.07 kW. Summer kW and annual energy both increased slightly.

**16. Commercial/Industrial Audit (Free)**

- No modifications recommended.

**17. Comprehensive Commercial/Industrial Audit (Paid)**

- No modifications recommended.

**18. Commercial Chiller**

- Tampa Electric is proposing to discontinue this

program because it is no longer cost-effective to offer. The majority of permutations had failing TRC and PCT scores at the Technical Potential level. The chillers measures that did have passing TRC, PCT and RIM scores had variable frequency drives. These chillers with passing scores will be shifted to be covered in the proposed VFD and Motor Controls program. The drop in cost-effectiveness in commercial chillers without variable frequency drives is the drop in winter kW benefit from 2.475 kW in the prior DSM Plan to the current value of 0.00. Summer demand and annual energy increased slightly.

**19. Cogeneration**

- No modifications recommended.

**20. Conservation Value**

- Retitle program to industry standard title of "Commercial/Industrial Custom Energy Efficiency".
- Increase the advertising of this program with all potential technologies that would be eligible for participation.
- Perform cost-effectiveness to determine the rebate using the same inputs that establishes the program during the DSM goals setting. Set rebate amount at

the level of a two-year simple payback or a RIM score of 1.01, whichever is more restrictive.

**21. Commercial Cooling**

- Tampa Electric is proposing to discontinue this program because it is no longer cost-effective to offer. All commercial cooling failed TRC with an average permutation score of 0.48 and all permutations also failed PCT with an average score of negative 3,217.53. All permutations passed RIM but with the failing PCT this measure was removed from consideration.

**22. Demand Response**

- No modifications recommended.
- In the settlement that resolved Tampa Electric's 2021 base rate case, the company agreed to increase the amount of credit per kW to participating customers. Tampa Electric agreed that the level of these credits would remain in effect even after the 2021 Settlement expires unless they are changed by a future settlement agreement or Commission order in the company's next base rate case.

**23. Facility Energy Management System**

- Tampa Electric is proposing to discontinue this program because it is no longer cost-effective to offer. This program has failing cost-effectiveness scores with no incentive. The drop in cost effectiveness is due to a dramatic drop in demand and energy savings as compared to the last DSM Plan. Summer kW dropped from 33.20 KW to 7.18 kW, winter kW dropped from 12.35 kW to 3.18 kW, and annual energy dropped from 175,633 kWh to 36,837 kWh.

**24. Industrial Load Management (GSLM 2&3)**

- No modifications recommended.
- In the settlement that resolved Tampa Electric's 2021 base rate case, the company agreed to increase the amount of credit per kW to participating customers. Tampa Electric agreed that the level of these credits would remain in effect even after the 2021 Settlement expires unless they are changed by a future settlement agreement or Commission order in the company's next base rate case.

**25. Street and Outdoor Lighting Conversion**

- This program was completed and retired in the first quarter of 2023 when Tampa Electric completed the

conversion of the company's high-pressure sodium and mercury vapor outdoor and streetlights to light emitting diode technology.

**26. Lighting Conditioned Space**

- Increase the rebate to $400, from $250, per kW reduced.
- Add refrigerated display cases to eligibility.

**27. Lighting Non-Conditioned Space**

- Increase the rebate to $350, from $200, per kW reduced.

**28. Lighting Occupancy Sensors**

- Modify the rebate from a per occupancy sensor installed to $26 per kW of controlled lighting. This will eliminate confusion with customers as many new Light Emitting Diode luminaires come with their own integrated occupancy sensor.

**29. Commercial Load Management (GSLM 1)**

- Increase the monthly credit to $5.00, from $3.00, per kW of demand reduction for cyclic control.
- Increase the monthly credit to $5.50, from $3.50, per kW of demand reduction for extended control.
- The company is transitioning to use the same technology that supports Energy Planner and Prime Time

Plus for this program. Once the technology transition occurs, Tampa Electric will be able to market this program to new participants.

**30. Commercial Smart Thermostats**

- Tampa Electric is proposing to discontinue this program because it is no longer cost-effective to offer. 12 of the permutations failed TRC at the Technical Potential level, the same market segments had failing PCT scores. This drop in TRC and PCT scores was due to an over 50 percent drop in energy savings per installation as compared to the prior DSM Plan's values (45,895 kWh dropping to 17,190 kWh). Even though all the permutations passed the RIM test, the company removed this program because it has an overall failing PCT score of negative 12,932.

**31. Standby Generator**

- No modifications recommended.
- In the settlement that resolved Tampa Electric's 2021 base rate case, the company agreed to increase the amount of credit per kW to participating customers. Tampa Electric agreed that the level of these credits would remain in effect even after the 2021 Settlement expires unless they are changed by a future settlement

agreement or Commission order in the company's next base rate case.

**32. Variable Frequency Drive Control for Compressors**

- This program is being expanded from the current eligibility of variable frequency control for compressors to all variable frequency control and motor controls.
- This program will expand to include speed drives controlling large chillers, commercial cooling units, variable air volume systems, demand circulating systems, escalator motors, and energy efficiency exhaust hoods.
- Retitle program to VFD and Motor Controls.
- Increase the rebate to $75, from $50, per HP controlled.

**33. Commercial Water Heating**

- Retitle program to "Commercial Heat Pump Water Heater and Drain Water Heat Recovery".
- Increase the rebate to $10, from $0.01, per Btu up to 50 percent of the cost of the equipment.
- Qualifying equipment includes ENERGY STAR certified Heat Pump Water Heater or a Heat Pump Water Heater with a COP ≥ 3.0.

- Drain water heat recovery must recover heat from an electrically heated source.

**34. Integrated Renewable Energy System (Pilot)**

- This pilot program will conclude at the end of 2024. Updates have been provided annually within the company's Annual DSM Report filed with the Commission on March 1 of each year. The final report concluding this pilot program will be filed on March 1, 2025.

**35. Conservation Research and Development ("R&D")**

- No modifications recommended.

**36. Renewable Energy Program (Sun-To-Go)**

- No modifications recommended.

**Q.** Are any of the above DSM programs impacted by the Inflation Reduction Act ("IRA") that provides tax credits for energy efficient home improvements and clean energy property credits?

**A.** Yes, the proposed new tiered Residential Heating and Cooling DSM is impacted by the IRA. In this proposed program, the values used to model this program would make participants in the lower tier eligible for $315 in tax

**7.** Please identify the total historical annual program costs for each of TECO's existing Commission-approved demand-side management programs for the years 2019 through 2024.

**A.** Please refer to the attached document "Data Request Question 7.pdf"

| Historical DSM Program Costs | | | | | | |
|---|---|---|---|---|---|---|
| **Program Name** | **2019** | **2020** | **2021** | **2022** | **2023** | **2024** |
| Residential Walk-Through Audit (Free Energy Check) | $1,501,966.48 | $1,778,079.87 | $2,240,285.00 | $2,254,718.00 | $2,162,112.38 | $2,135,610.51 |
| Residential Customer Assisted Energy Audit (Online) | $442,564.97 | $403,606.90 | $430,646.00 | $370,291.00 | $401,642.71 | $410,990.17 |
| Residential Computer Assisted Energy Audit (RCS)(Paid) | $868.93 | $1,122.74 | $0.00 | $909.00 | $3,427.45 | $2,545.29 |
| Residential Ceiling Insulation | $194,445.36 | $162,278.52 | $167,486.00 | $169,715.00 | $187,573.72 | $137,924.44 |
| Residential Duct Repair | $215,190.61 | $86,791.60 | $53,360.00 | $89,356.00 | $68,718.37 | $121,817.21 |
| Energy and Renewable Education, Awareness and Agency Outreach | $81,905.88 | $231,167.40 | $238,783.00 | $153,909.00 | $264,912.13 | $398,682.11 |
| Residential Electronically Commutated Motor (ECM) | $0.00 | $0.00 | | | | |
| ENERGY STAR for New Multi-Family Residences | $87,997.08 | $864.00 | $450.00 | -$98.00 | $0.00 | -$16.64 |
| ENERGY STAR for New Homes | $753,924.85 | $879,134.92 | $1,020,989.00 | $723,295.00 | $789,378.37 | $372,806.36 |
| ENERGY STAR Pool Pumps | | $2,474.82 | $219,800.00 | $459,948.00 | $536,426.77 | $464,898.61 |
| ENERGY STAR Thermostats | | $2,371.50 | $47,500.00 | $140,243.00 | $117,373.94 | $103,908.97 |
| Residential Heating and Cooling | $576,967.54 | $544,666.95 | $446,889.00 | $414,562.00 | $294,705.93 | $301,699.52 |
| Neighborhood Weatherization | $1,987,117.77 | $1,257,321.20 | $790,505.00 | $1,745,985.00 | $2,087,096.49 | $2,280,952.64 |
| Residential Price Responsive Load Management (Energy Planner) | $3,034,030.02 | $2,901,504.26 | $1,971,898.00 | $2,766,543.00 | $2,960,841.92 | $2,443,329.89 |
| Residential Prime Time Plus | | $1,190.00 | $475.00 | $221,131.00 | $1,424,972.75 | $1,404,101.98 |
| Residential Wall Insulation | $224.62 | $458.16 | | | | |
| Residential Window Replacement | $800,171.87 | $741,631.35 | $260,971.00 | $197,198.00 | $250,170.18 | $188,033.63 |
| Prime Time | $22,730.95 | $20,161.20 | $24,870.00 | $21,365.00 | $61,907.64 | -$20,147.54 |
| Commercial/Industrial Audit (Free) | $351,045.31 | $295,879.60 | $252,936.00 | $310,525.00 | $559,515.90 | $477,503.09 |
| Comprehensive Commercial/Industrial Audit (Paid) | $1,149.49 | $1,077.63 | -$420.00 | $0.00 | $8.40 | $300.00 |
| Commercial Ceiling Insulation | $2,059.37 | $1,175.91 | | | | |
| Commercial Chiller | $28,515.30 | $13,038.69 | $233.00 | $59.00 | $6,211.52 | $8,276.45 |
| Cogeneration | $32,562.52 | $18,110.00 | $26,700.00 | $26,012.00 | $35,730.20 | $36,964.21 |
| Conservation Value | $0.00 | $3.00 | $91.00 | $308.00 | $8.40 | $134.73 |
| Cool Roof | $133,084.91 | $193,862.96 | $99,983.00 | | | |
| Commercial Cooling | $2,280.89 | $5,500.39 | $13,397.00 | $12,644.00 | $34,366.36 | $45,417.59 |
| Demand Response | $3,901,968.11 | $3,138,526.84 | $2,812,921.00 | $3,386,434.00 | $3,849,871.16 | $3,278,817.65 |
| Commercial Duct Repair | $0.00 | $286.53 | | | | |
| Commercial Electronically Commutated Motors (ECM) | $0.00 | $0.00 | | | | |
| Facility Energy Management System | | $39,806.33 | $36,740.00 | $47,239.00 | $620,269.60 | $1,890,364.93 |
| Industrial Load Management (GSLM 2&3) | $18,307,682.45 | $17,208,518.19 | $20,079,051.00 | $23,391,289.00 | $22,761,448.76 | $21,888,845.16 |
| Commercial Street And Outdoor Lighting Conversion | $4,515,747.33 | $4,864,915.00 | $9,287,726.00 | $4,052,301.00 | $12,627.85 | $0.00 |
| Lighting Conditioned Space | $2,383,401.78 | $896,078.60 | $487,265.00 | $778,138.00 | $303,814.21 | $238,725.16 |
| Lighting Non-Conditioned Space | $168,691.08 | $144,604.00 | $182,977.00 | $234,241.00 | $225,225.00 | $196,661.25 |
| Lighting Occupancy Sensors | $8,196.31 | $8,434.71 | $14,551.00 | $24,223.00 | $29,966.94 | $1,070,510.97 |
| Commercial Load Management (GSLM 1) | $7,053.09 | $6,615.00 | $6,531.00 | $6,591.00 | $6,531.00 | $4,208.36 |
| Refrigeration Anti-Condensate Control | $0.00 | $0.00 | | | | |
| Commercial Smart Thermostats | | $8,654.90 | $482.00 | $403,799.00 | $25,197.73 | $14,305.97 |
| Standby Generator | $3,680,753.60 | $3,828,325.50 | $3,769,406.00 | $4,885,876.00 | $5,153,805.96 | $5,517,773.60 |
| Thermal Energy Storage | $157,920.60 | $160,468.93 | | | | |
| Variable Frequency Drive Control for Compressors | | $7,091.35 | $2,518.00 | $22,399.00 | $23,692.79 | $103,131.63 |
| Commercial Wall Insulation | $0.00 | $0.00 | | | | |
| Commercial Water Heating | $0.00 | $3.00 | -$3.00 | $0.00 | $74.61 | $0.00 |
| Renewable Energy Program | $184,077.15 | $269,454.60 | -$37,421.00 | -$103,259.00 | -$103,897.09 | -$83,372.73 |
| Common Expenses | $580,895.36 | $691,887.27 | $599,648.00 | $569,249.00 | $763,150.88 | $1,061,793.83 |
| Conservation Research and Development | $25,413.50 | $29,776.58 | -$12,737.00 | $3,049.00 | $47,623.54 | $235,178.10 |
| Integrated Renewable Energy System (Pilot) | | $133,602.60 | $753,635.00 | $1,102,011.00 | $1,061,750.60 | $997,621.68 |

**8.** Please identify the total historical annual program participation for each of TECO's existing Commission-approved demand-side management programs for the years 2019 through 2024.

**A.** Please refer to the attached document "Data Request Question 8.pdf"

## Historical Program Participation

| Program Name | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|---|---|---|---|---|---|---|
| Residential Walk-Through Audit (Free Energy Check) | 6,786 | 1,514 | 1,035 | 4,308 | 4,090 | 2,861 |
| Residential Customer Assisted Energy Audit (Online) | 56,474 | 59,766 | 68,540 | 109,802 | 100,189 | 52,794 |
| Residential Computer Assisted Energy Audit (RCS)(Paid) | 1 | 0 | 0 | 2 | 5 | 4 |
| Residential Ceiling Insulation | 595 | 265 | 382 | 425 | 480 | 369 |
| Residential Duct Repair | 1,078 | 251 | 267 | 420 | 315 | 557 |
| Energy and Renewable Education, Awareness and Agency Outreach | 1,304 | 445 | 810 | 2,488 | 2,401 | 1,323 |
| Residential Electronically Commutated Motor (ECM) | 0 | 1 | | | | |
| ENERGY STAR for New Multi-Family Residences | 264 | 0 | 0 | 0 | 0 | 0 |
| ENERGY STAR for New Homes | 849 | 858 | 1,006 | 708 | 770 | 348 |
| ENERGY STAR Pool Pumps | | 10 | 628 | 1,193 | 1,460 | 1,170 |
| ENERGY STAR Thermostats | | 42 | 950 | 1,403 | 1,505 | 1,001 |
| Residential Heating and Cooling | 3,638 | 3,578 | 2,839 | 2,643 | 1,681 | 1,645 |
| Neighborhood Weatherization | 6,740 | 1,760 | 2,923 | 9,159 | 8,258 | 6,634 |
| Residential Price Responsive Load Management (Energy Planner) | 897 | 138 | 98 | 341 | 480 | 355 |
| Residential Prime Time Plus | | 0 | 0 | 1 | 537 | 645 |
| Residential Wall Insulation | 2 | 3 | | | | |
| Residential Window Replacement | 1,878 | 1,875 | 1,176 | 1,051 | 1,236 | 933 |
| Prime Time | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial/Industrial Audit (Free) | 866 | 238 | 101 | 766 | 976 | 459 |
| Comprehensive Commercial/Industrial Audit (Paid) | 0 | 1 | 0 | 0 | 0 | 0 |
| Commercial Ceiling Insulation | 5 | 3 | | | | |
| Commercial Chiller | 5 | 1 | 0 | 0 | 3 | 1 |
| Cogeneration | 0 | 0 | 0 | 0 | 0 | 0 |
| Conservation Value | 0 | 0 | 0 | 0 | 0 | 0 |
| Cool Roof | 15 | 22 | 4 | | | |
| Commercial Cooling | 15 | 14 | 44 | 56 | 174 | 144 |
| Demand Response | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial Duct Repair | 0 | 0 | | | | |
| Commercial Electronically Commutated Motors (ECM) | 0 | 0 | | | | |
| Facility Energy Management System | | 0 | 2 | 2 | 26 | 90 |
| Industrial Load Management (GSLM 2&3) | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial Street And Outdoor Lighting Conversion | 32,366 | 25,469 | 69,231 | 41,992 | 8,827 | 0 |
| Lighting Conditioned Space | 421 | 186 | 143 | 131 | 79 | 52 |
| Lighting Non-Conditioned Space | 132 | 93 | 101 | 100 | 38 | 46 |
| Lighting Occupancy Sensors | 3 | 4 | 4 | 3 | 6 | 170 |
| Commercial Load Management (GSLM 1) Extended | 0 | 0 | 0 | 0 | 0 | 0 |
| Commercial Load Management (GSLM 1) Cyclic | 0 | 0 | 0 | 0 | 0 | 0 |
| Refrigeration Anti-Condensate Control | 0 | 0 | | | | |
| Commercial Smart Thermostats | | 0 | 2 | 137 | 7 | 3 |
| Standby Generator | 9 | 14 | 6 | 2 | 17 | 5 |
| Thermal Energy Storage | 1 | 0 | | | | |
| Variable Frequency Drive Control for Compressors | | 0 | 1 | 21 | 16 | 2 |
| Commercial Wall Insulation | 0 | 0 | | | | |
| Commercial Water Heating | 0 | 0 | 0 | 0 | 0 | 0 |
| Renewable Energy Program | 0 | 0 | 0 | 0 | 0 | 0 |
| Common Expenses | 0 | 0 | 0 | 0 | 0 | 0 |
| Conservation Research and Development | 0 | 0 | 0 | 0 | 0 | 0 |
| Integrated Renewable Energy System (Pilot) | | 0 | 0 | 0 | 0 | 0 |

**9.** Please provide the total historical annual bill impact for each of TECO's existing Commission-approved demand-side management programs for the years 2019 through 2024.

**A**. Please refer to the attached document "Data Request Question 9.pdf"

Historical Annual Bill Impacts
1200 kWh / Month Residential Customer

| Program Name | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|---|---|---|---|---|---|---|
| Residential Walk-Through Audit (Free Energy Check) | $1.23 | $1.44 | $1.82 | $1.86 | $1.76 | $1.68 |
| Residential Customer Assisted Energy Audit (Online) | $0.36 | $0.33 | $0.35 | $0.31 | $0.33 | $0.32 |
| Residential Computer Assisted Energy Audit (RCS)(Paid) | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| Residential Ceiling Insulation | $0.16 | $0.13 | $0.14 | $0.14 | $0.15 | $0.11 |
| Residential Duct Repair | $0.18 | $0.07 | $0.04 | $0.07 | $0.06 | $0.10 |
| Energy and Renewable Education, Awareness and Agency Outreach | $0.07 | $0.19 | $0.19 | $0.13 | $0.22 | $0.31 |
| Residential Electronically Commutated Motor (ECM) | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| ENERGY STAR for New Multi-Family Residences | $0.07 | $0.00 | $0.00 | ($0.00) | $0.00 | ($0.00) |
| ENERGY STAR for New Homes | $0.62 | $0.71 | $0.83 | $0.60 | $0.64 | $0.29 |
| ENERGY STAR Pool Pumps | $0.00 | $0.00 | $0.18 | $0.38 | $0.44 | $0.37 |
| ENERGY STAR Thermostats | $0.00 | $0.00 | $0.04 | $0.12 | $0.10 | $0.08 |
| Residential Heating and Cooling | $0.47 | $0.44 | $0.36 | $0.34 | $0.24 | $0.24 |
| Neighborhood Weatherization | $1.63 | $1.02 | $0.64 | $1.44 | $1.70 | $1.80 |
| Residential Price Responsive Load Management (Energy Planner) | $2.49 | $2.35 | $1.60 | $2.28 | $2.41 | $1.93 |
| Residential Prime Time Plus | $0.00 | $0.00 | $0.00 | $0.18 | $1.16 | $1.11 |
| Residential Wall Insulation | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| Residential Window Replacement | $0.66 | $0.60 | $0.21 | $0.16 | $0.20 | $0.15 |
| Prime Time | $0.02 | $0.02 | $0.02 | $0.02 | $0.05 | ($0.02) |
| Commercial/Industrial Audit (Free) | $0.29 | $0.24 | $0.21 | $0.26 | $0.46 | $0.38 |
| Comprehensive Commercial/Industrial Audit (Paid) | $0.00 | $0.00 | ($0.00) | $0.00 | $0.00 | $0.00 |
| Commercial Ceiling Insulation | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| Commercial Chiller | $0.02 | $0.01 | $0.00 | $0.00 | $0.01 | $0.01 |
| Cogeneration | $0.03 | $0.01 | $0.02 | $0.02 | $0.03 | $0.03 |
| Conservation Value | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| Cool Roof | $0.11 | $0.16 | $0.08 | $0.00 | $0.00 | $0.00 |
| Commercial Cooling | $0.00 | $0.00 | $0.01 | $0.01 | $0.03 | $0.04 |
| Demand Response | $3.20 | $2.54 | $2.29 | $2.80 | $3.14 | $2.58 |
| Commercial Duct Repair | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| Commercial Electronically Commutated Motors (ECM) | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| Facility Energy Management System | $0.00 | $0.03 | $0.03 | $0.04 | $0.51 | $1.49 |
| Industrial Load Management (GSLM 2&3) | $15.03 | $13.95 | $16.33 | $19.31 | $18.54 | $17.25 |
| Commercial Street And Outdoor Lighting Conversion | $3.71 | $3.94 | $7.55 | $3.35 | $0.01 | $0.00 |
| Lighting Conditioned Space | $1.96 | $0.73 | $0.40 | $0.64 | $0.25 | $0.19 |
| Lighting Non-Conditioned Space | $0.14 | $0.12 | $0.15 | $0.19 | $0.18 | $0.15 |
| Lighting Occupancy Sensors | $0.01 | $0.01 | $0.01 | $0.02 | $0.02 | $0.84 |
| Commercial Load Management (GSLM 1) | $0.01 | $0.01 | $0.01 | $0.01 | $0.01 | $0.00 |
| Refrigeration Anti-Condensate Control | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| Commercial Smart Thermostats | $0.00 | $0.01 | $0.00 | $0.33 | $0.02 | $0.01 |
| Standby Generator | $3.02 | $3.10 | $3.07 | $4.03 | $4.20 | $4.35 |
| Thermal Energy Storage | $0.13 | $0.13 | $0.00 | $0.00 | $0.00 | $0.00 |
| Variable Frequency Drive Control for Compressors | $0.00 | $0.01 | $0.00 | $0.02 | $0.02 | $0.08 |
| Commercial Wall Insulation | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| Commercial Water Heating | $0.00 | $0.00 | ($0.00) | $0.00 | $0.00 | $0.00 |
| Conservation Research and Development | $0.02 | $0.02 | ($0.01) | $0.00 | $0.04 | $0.19 |
| Integrated Renewable Energy System (Pilot) | $0.00 | $0.11 | $0.61 | $0.91 | $0.87 | $0.79 |