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September 9, 2015

VIA: ELECTRONIC FILING

Ms. Carlotta S. Stauffer  
Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850

Re: Petition for Approval of Demand-side Management Plan of Tampa Electric Company; FPSC Docket No. 150081-EG

Dear Ms. Stauffer:

Attached for filing in the above-styled docket is Tampa Electric Company's Program Standards – Ten-Year DSM Plan 2015-2024.

Thank you for your assistance in connection with this matter.

Sincerely,

  
James D. Beasley

JDB/pp  
Attachment



# **Tampa Electric Company**

**Program Standards**

**Ten-Year DSM Plan**

**2015-2024**

**September 9, 2015**

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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 or have made room additions are not eligible to participate.
2. Rebate paid is \$0.14 per square foot of installed qualifying insulation. Total rebate is based on the total square footage of qualifying insulation installed over conditioned space.
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 \$80.00 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: Residential Electronically Commutated Motors (“ECM”)**

### **Program Participation Standards**

1. Participation is available to any existing residential customer located within Tampa Electric's service area.
2. Rebate: \$115.00 for each non-ECM air handler motor replaced with an ECM.
3. All residences with ducted whole house air conditioning and/or heating are eligible.
4. All work must be performed by a participating licensed HVAC contractor.
5. ECM installation must meet manufacturer's instructions and specifications.
6. ECM installation must meet standards set forth in the Florida Building Code.
7. ECM installation must not void any warranties of the HVAC system.
8. The contractor will subtract the incentive paid by Tampa Electric from the customer's total cost of equipment and installation.
9. 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 the installed ECM meets the program standards on the application.
  - 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. 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), Florida Administrative Code. Additionally, program expenses will be identified in the ECCR True-up and Projection Filings.

## **Program: Energy 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 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.
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 compact fluorescent 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 Education, Awareness and Agency Outreach.
    - Neighborhood Weatherization.

7. Tampa Electric will survey 10 percent of the participating customers for verification and validation.
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 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: \$850 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.
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.
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.
  - b. A geothermal system with a 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 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.
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 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.

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.
  - 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. 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:
    - Eight compact fluorescent 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 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. Residence must have a central heating and cooling system. Window units are not eligible.
3. Residence must be capable of meeting communication strength standards for energy management equipment and compatible with the company's communication technology protocol.
4. 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.
5. Existing metering equipment must be compatible with the program management equipment.
6. Summer rate period – May 1 through October 31.
7. 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.
8. Winter rate period – November 1 through April 30.
9. 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.

10. 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.
11. Critical price period (P 4) can occur at any time but will be limited to 1.5 percent of the year.
12. There are no customer participation fees for this program.
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: Residential Wall 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 wall insulation programs or have made room additions are not eligible to participate.
2. Incentive: \$0.11 per square foot of area installed.
3. Residence must have electric whole-house air conditioning or heating.
4. Only exterior walls adjacent to conditioned living areas are eligible.
5. Customer must add a minimum insulation value of R-11 based on manufacturer's specifications.
6. A home with in-wall wiring requiring air cooling will not qualify for this incentive. This includes knob-and-tube wiring.
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.
  - Installation has passed Tampa Electric's verification process.
8. 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.
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: Residential Window Replacement**

### **Program Participation Standards**

1. Participation is available to any existing residential customer located within Tampa Electric's service area.
2. Rebate: \$2.20 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 Ceiling Insulation**

### **Program Participation Standards**

1. Participation is available to existing commercial/industrial customers located in Tampa Electric's service area who meets the following criteria:
  - Retrofit (existing installations only).
  - Any facility constructed after March 15, 2012 is not eligible for this rebate.
2. Pre-verification must be performed and approved by Tampa Electric prior to installation. A preapproval certificate has been 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.
3. Rebate: \$0.15 per square foot to increase ceiling insulation to a level of R-38.
4. Participant must have dedicated electric HVAC system(s).
5. Existing ceiling insulation level must be less than R-19.
6. Customer or contractor shall provide manufacturer's specification sheets with a description of the insulation material to be added.
7. No payment shall be made by Tampa Electric until:
  - Insulation contractor or customer submits a complete and correct application to Tampa Electric.
  - Pre-verification has been performed and approved by Tampa Electric.
  - Application has been signed and dated by customer indicating acceptance of number of bags of ceiling insulation and/or acceptance of ceiling insulation installation.
  - Insulation contractor or customer submits information on insulation type and R-value added.
  - 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 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: Commercial Chiller**

**Program Participation Standards**

1. Participation is available to any commercial/industrial customer located within Tampa Electric's service area.
2. Rebate: \$146.00 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:

<b>Water Cooled Centrifugal Chillers</b>	< 300 tons	$\leq 0.610$ kW/ton ( $\geq 5.77$ COP)
	$\geq 300$ tons and < 600 tons	$\leq 0.55$ kW/ton ( $\geq 6.39$ COP)
	$\geq 600$ Tons	$\leq 0.55$ kW/ton ( $\geq 6.39$ COP)

<b>Water-Cooled Scroll or Screw Chillers</b>	< 75 tons	$\leq 0.760$ kW/ton ( $\geq 4.63$ COP)
	$\geq 75$ tons and < 150 tons	$\leq 0.750$ kW/ton ( $\geq 4.69$ COP)
	$\geq 150$ tons and < 300 tons	$\leq 0.660$ kW/ton ( $\geq 5.33$ COP)
	$\geq 300$ tons	$\leq 0.600$ kW/ton ( $\geq 5.86$ COP)

<p><b>Air-Cooled Electric Chillers</b></p>	<p>Any Size</p>	<p><math>\leq 1.091</math> kW/ton (<math>\geq 3.22</math> COP)</p>
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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 and 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.
  
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 \$200.00 per kW of demand reduction coincident with Tampa Electric's system peak over the determined baseline. Tampa Electric will determine rebate qualification and level 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 \$200 per kW will be determined by maintaining a RIM and PCT benefit-to-cost ratio of equal to or greater than 1.00.
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 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.
  - 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, refrigeration measures, non-conventional cooling systems, water heating measures and other measures not covered by any other Tampa Electric approved conservation program.
  - b. Ineligible Measures: This would include measures potentially in conflict with environmental regulations (CFCs, water conservation, indoor air quality), 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. 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 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.
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: Cool Roof

### Program Participation Standards

1. Participation is available to any commercial/industrial customer located within Tampa Electric's service area.
2. Participant must have dedicated electric HVAC system(s).
3. Rebate: \$0.30 per square foot of installed qualifying cool roof polyvinyl chloride ("PVC") membrane up to a maximum rebate of \$75,000 not to exceed 50 percent of the total project cost.
4. Cool roof material must be Energy Star rated roof product based on ASTE E-903 or ASTM C 1549 testing. Solar reflectance of cool roof material installed must be greater than 0.80 and the thermal emittance must be greater than 0.85.
5. Must be installed by a licensed contractor that holds a current certificate of insurance.
6. No payment shall be made by Tampa Electric until:
  - Customer or contractor submits a complete and correct application to Tampa Electric.
  - Pre-verification has been performed and approved by Tampa Electric. 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.
  - The work must be completed within one year from the date of the pre-approval certificate. Work completed beyond one year of the date of the pre-approval certificate will not be rebated.
  - Application has been signed and dated by the customer indicating their acceptance of the installation.
  - Application must be accompanied by:
    - If the customer does not own the facility having the cool roof product installed, an owner's authorization form is required.
    - Copy of the customer's invoice and schedule values.
    - Copy of manufacturer's performance specifications.
    - Purchase receipt(s) and invoice(s) must clearly identify the approved equipment included on the equipment worksheet and include date of purchase, purchase price, and quantity purchased.

- Front and back copies of cancelled check or other positive proof of purchase.
  - The installation has passed Tampa Electric's verification process.
8. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participants. 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: Commercial Cooling**

### **Program Participation Standards**

1. Participation is available to any commercial/industrial customer located within Tampa Electric's service area.
2. Rebate: \$11.00 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 2.00.
5. Efficiency measurement for qualification will be the certified rating of the equipment at full load.
6. 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 and 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 will sign an agreement with vendor to participate in the program.
5. Depending on customer metering, pulse initiated metering may be necessary at the customer facility.
6. Tampa Electric will perform field verifications on all installations.
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: Commercial Duct Repair**

### **Program Participation Standards**

1. Participation is available to any existing commercial/industrial customer located within Tampa Electric's service area and the facility was constructed prior to March 15, 2012. Facilities constructed after this date are ineligible for this program.
2. All installations shall be compliant with Florida Building Code 2010, Chapter 5; (503.2.7.2).
3. Participating contractors must follow and meet all other program terms and conditions.
4. Rebate: \$150 per qualifying ADS.
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. All projects must be pre-qualified through onsite pre-verification to ensure accessibility prior to any work being performed.
7. Facilities must have a central ducted HVAC system with electric heating or air conditioning that is accessible for repair and verification.
8. ADS must be constructed with flex duct and/or duct board. Metal duct systems do not qualify for rebate with this program.
9. Tampa Electric will maintain a list of participating HVAC contractors who have agreed to adhere to program standards and repair requirements. These include:
  - Participating contractor must be HVAC licensed.
  - Contractor will seal and repair all accessible components of the ADS.
  - Sealing and repairs to the 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 of the ADS.
  - Contractor will subtract rebate from customer's invoice.
  - Contractor will submit duct repair work order to Tampa Electric.

10. No payment shall be made by Tampa Electric until:
  - A complete and correct participant application has been submitted to Tampa Electric within 90 days of repair date.
  - Installation has passed Tampa Electric's verification process.
11. Customer may only receive one duct seal rebate per qualifying ADS.
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.
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: Commercial Electronically Commutated Motors (“ECM”)**

### **Program Participation Standards**

1. Participation is available to any commercial/industrial customer located within Tampa Electric's service area.
2. The program applies to customers who are retrofitting/replacing existing standard motors for HVAC and/or refrigeration equipment with a qualifying ECM.
4. ECM must be UL rated and greater than or equal to 70 percent efficiency.
5. Rebate: \$200 per motor horsepower.
6. All work must be performed by a licensed HVAC contractor participating in the program.
7. No payment shall be made by Tampa Electric until:
  - A complete and correct participant application has been submitted to Tampa Electric within one year of installation date.
  - Application has been signed and dated by the customer indicating their acceptance of the installation.
  - Application must be accompanied by:
    - Copy of the customer's invoice.
    - Copy of manufacturer's equipment specifications.
  - Installation has passed Tampa Electric's verification process.
8. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of the participants. 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.
  - 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: 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. 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 are eligible if they are permanent and locking.
4. Retrofit upgrades shall be permanent installations. 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. De-lamping is eligible for this rebate provided all of the following conditions are met:
  - The lighting levels recommended by the Illuminating Engineering Society of North America ("IESNA") for that space type must be met.
  - 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.
  - All unused fixtures, lamp holders and ballasts must be removed from the space.
8. Rebate: \$0.148 per watt reduction.
9. 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. No payment shall be made by Tampa Electric until:
  - Pre-verification has been performed and approved by Tampa Electric.
  - Contractor or customer submits a complete and correct application to Tampa Electric.
  - 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.
  - Installation has passed Tampa Electric's verification process.
11. 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. 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. 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 T12 lighting systems and de-lamping are not eligible for this rebate.
4. Retrofit upgrades shall be permanent installations. 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: \$0.075 per watt reduction.
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:
  - Pre-verification has been performed and approved by Tampa Electric.
  - Contractor or customer submits a complete and correct application to Tampa Electric.
  - 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.
  - 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: \$20.00 for each qualifying occupancy sensor up to but not to exceed 50 percent of purchase price.
4. All installations must exceed current Florida Building Code.
5. Occupancy sensor installation shall be permanent. Sensors must be new and installed in a manner that meets or exceeds applicable code.
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.
7. No payment shall be made by Tampa Electric until:
  - Pre-verification has been performed and approved by Tampa Electric.
  - Contractor or customer submits a complete and correct application to Tampa Electric.
  - 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.
  - 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 \$3.00 per kW demand reduction per month during the summer; extended control receives \$3.50 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: Refrigeration Anti-condensate Control**

### **Program Participation Standard**

1. Participation is available to existing commercial/industrial customers located in Tampa Electric's service area.
2. Rebate: \$0.35 per linear foot of heat element that is controlled by qualifying anti-condensate control.
3. Refrigeration controls and equipment must be designed and operated to reduce Tampa Electric's system peak demand.
4. All contractors installing equipment must be a licensed.
5. No payment shall be made by Tampa Electric until:
  - Contractor or customer submits a complete and correct application to Tampa Electric within one year of installation date.
  - 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.
  - 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 customers. Applications not selected for field verification will have an office verification performed.
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: 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).
  - 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.
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: \$4.75 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: Thermal Energy Storage (“TES”)**

### **Program Participation Standards**

1. Participation is available to any commercial/industrial customers located in Tampa Electric’s service area.
2. All TES 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.
3. To be eligible for this rebate the following must accompany the application:
  - Pre-retrofit and post-retrofit energy and demand analysis signed by a professional engineer.
  - Cooling and heating load analysis.
  - Signed agreement understanding that Tampa Electric has the option to install a recording meter or individual sub-meters on necessary equipment.
  - Signed agreement that no material purchases or installation work has occurred prior to the date of the application.
  - Projected work schedule with dates for the installation of the TES.
  - Itemized inventory of needed equipment specifications showing rating and AHRI certification, projected costs and quantities of piping, tanks, motors, and installation labor.
4. Installing contractor must certify the unit was sized according to performance specifications and must adhere to all local, state, and federal codes for the specific installation.
5. Rebate: \$200.00 per kW reduced. Rebate cannot be combined with any other programs.
6. The TES system must be electric and be new and not refurbished or previously installed or used. The facility the TES is serving cannot have backup air conditioning system.
7. The TES system must achieve at least 100 kW of demand reduction during Tampa Electric’s peak summer hours.
8. Customers that participate in any of the following Tampa Electric programs are not eligible for this program:
  - Industrial load management.
  - Commercial load management.

- Commercial demand response.
  - Commercial standby generator.
9. Customer's simple payback period including rebates, shall not be less than two years and total rebate cannot exceed 50 percent of the total project cost.
  10. Customer's that install qualifying TES systems will receive 50 percent of the eligible rebate upon successful installation and completion of a field verification. The remaining portion of eligible rebate will be paid once the TES system has demonstrated at least 90 days of successful summer operation. The total rebate paid will be based upon eligibility and the performance of the TES system.
  11. No payment shall be made by Tampa Electric until:
    - Contractor or customer submits a complete and correct application to Tampa Electric.
    - 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.
    - 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 customers. Applications not selected for field verification will have an office verification performed.
  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: Commercial Wall Insulation

### Program Participation Standards

1. Participation is available to existing commercial/industrial customers located in Tampa Electric's service area who meets the following criteria:
  - Retrofit (existing installations only).
  - Any facility constructed after March 15, 2012 is not eligible for this rebate.
2. Pre-verification must be performed and approved by Tampa Electric prior to installation. A preapproval certificate has been 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.
3. Rebate: \$0.12 per square foot of qualifying insulation installed.
4. Participant must have dedicated electric HVAC system(s).
5. Existing wall insulation level must be less than R-6.
6. The minimum amount of wall insulation added must increase the existing R-Value of the wall to equal to or greater than R-19.
7. Customer or contractor shall provide manufacturer's specification sheets with a description of the insulation material to be added.
8. No payment shall be made by Tampa Electric until:
  - Insulation contractor or customer submits a complete and correct application to Tampa Electric.
  - Pre-verification has been performed and approved by Tampa Electric.
  - Application has been signed and dated by customer indicating acceptance of number of bags of wall insulation and/or acceptance of wall insulation installation.
  - Insulation contractor or customer submits information on insulation type and R-value added.
  - Installation has passed Tampa Electric's verification process.
9. 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. 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 Water Heating

### 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. 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 or ARI Standard 870 for performance rating of direct geo-exchange heat pumps.
  - Have a minimum coefficient of performance of 3.00.
3. 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. Rebate: \$0.0250 per Btu up to a maximum rebate of \$2,000 not to exceed 50 percent of the total project cost.
5. The water heating system must be electric and used to supply heated water to meet domestic or process water needs.
6. 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. No payment shall be made by Tampa Electric until:
  - Contractor or customer submits a complete and correct application to Tampa Electric.
  - 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.
  - 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 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: 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**

### **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.

## **Program: Renewable Energy Systems Initiative**

### **Program Participation Standards**

#### **School Photovoltaic (“PV”) Program**

1. Participation is limited to public schools located in Tampa Electric's service area.
2. PV systems will be up to 10 kilowatts direct current (“DC”). Tampa Electric will rely upon the Florida Solar Energy Center (“FSEC”) to select qualifying emergency shelter schools to be a part of their Sun Smart Schools Program. FSEC has initiated a selection process with an emphasis on attaining a minimum of one emergency shelter school in each Florida County. If emergency shelter schools are not available in Tampa Electric’s service area, the company will coordinate with FSEC to select other non-shelter schools in its service area. If school is identified as a State of Florida emergency shelter, battery back-up will be required.
3. Installations will be limited to one site per year.
4. Tampa Electric will own and maintain the PV system for the first five years after installation and commissioning of the system. Thereafter, the company will transfer ownership of the PV system to the school; at that time, the school shall assume ownership and responsibility for all associated maintenance and operating costs of the PV system going forward. Alternatively, in the event Tampa Electric foregoes its right to own the PV system, the school must agree to own, operate and maintain the PV system immediately upon installation and commissioning of the system. Regardless of ownership, FSEC is securing a five-year warranty and maintenance agreement with the vendor.
5. Tampa Electric will perform field verifications on all installations. Installations must be accessible for verification by a Tampa Electric representative, including its contractor(s), to ensure compliance with program standards and complete maintenance as required in No. 4 above.
6. The school shall meet all applicable interconnection requirements as set forth in Tampa Electric’s Standard Interconnection Agreement for Renewable Generator Systems in accordance with Rule 25-6.065 F.A.C. The interconnection agreement must be signed by representatives of the school and Tampa Electric upon transfer of ownership of the PV system to the school. In the event, Tampa Electric foregoes its right to own the PV system, the interconnection agreement must be signed by representatives of the school and Tampa Electric immediately upon installation and commissioning of the system.
7. Selection of a licensed solar contractor or electrical contractor with solar certification to install the PV system will be made by Tampa Electric. All

selected contractors are responsible for all work performed and must comply with all local, state, and federal regulations and codes as well as Tampa Electric requirements.

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

### **Residential Solar Water Heater (“SWH”) Rebate Program**

1. Participation is limited to residential customers and the system must be used for domestic water heating. Pool heaters do not qualify. Structures located in Tampa Electric's service area are eligible. Applicant must be owner of premise.
2. Participant must have a south, east or west facing roof area that is not shaded between the hours of 9:00 AM and 3:00 PM annually. The same non-shaded restriction applies to a ground-mounted system. A shading analysis will be required by the contractor using either a Solar Pathfinder or Solmetric SunEye to verify these conditions. Site selection is subject to Tampa Electric's approval.
3. A rebate of \$1,000 per system will be paid to the owner of premise until annual funding is depleted.
4. Rebates will be limited to one per premise.
5. A Tampa Electric energy audit is required prior to system installation to qualify for the rebate. If system construction or installation occurs prior to the required audit, Tampa Electric has no obligation to make a rebate payment to the applicant.
6. The reservation process for available annual funds will be managed on a first come first serve basis.
7. Reservations for available annual funds will begin October 1 of the previous year and close September 30 of the current funding year. Once all available annual funds have been assigned, no additional reservations will be accepted for that year unless other funds become available for use by this program.
8. Tampa Electric's reservation process for the Residential SWH Program will utilize a web-based process, which will be managed on a first come, first served basis. Specifically, customers will access a reservation form on the company's web site. The web site will allow customer reservations until the maximum number has been reached. When the maximum number of reservations has been reached, the system will begin collecting a list of “interested parties” with their contact information.

9. Once a customer has obtained a reservation, Tampa Electric will contact the customer to schedule a free home energy audit. The audit will verify the availability of qualifying roof space. After this verification, the customer will have 90 days to install the SWH system and submit the required documentation to Tampa Electric.
10. In the event customers with reservations do not qualify, decide not to move forward with the installation, or do not provide proof of installation within the required time period, the reservation process will be evaluated and reopened quarterly. All “interested parties” that provided contact information will then be notified and afforded the opportunity to secure a reservation. The reservations will again be first come, first served for the remaining funds.
11. In the event that a customer does not have access to the internet, the customer will have the option to call Tampa Electric’s designated solar incentive line and a representative will provide assistance for completing the reservation form and providing a hard copy confirmation to the customer.
12. All SWH system components must be new. Retrofits, upgrades and systems relocated from another premise do not qualify for a rebate.
13. System components and installation must meet local, state and federal regulations and building codes.
14. A licensed plumber or solar contractor must install the system.
15. A copy of the local code enforcement inspection report must be provided to Tampa Electric prior to disbursement of a rebate.
16. The system must be certified by Florida Solar Energy Center (“FSEC”). A copy of the FSEC System Certification sheet or certification number must be submitted with rebate application.
17. A copy of the system invoice or purchase agreement with licensed contractor must be submitted with rebate application.
18. New construction installations will be limited to no more than 20 percent of systems receiving rebates.
19. System must be installed and all required documentation must be submitted to Tampa Electric within 90 days of the energy audit. Failure to submit the completed SWH rebate form and required documents within 90 days shall void the reservation and funding for this reservation will be reassigned. If there is additional funding available, the applicant may reapply for the rebate.
20. Tampa Electric will randomly perform field verifications on a minimum of 10 percent of installations. The company will utilize an office verification process to validate the information for the remaining installations. Additionally, Tampa Electric will utilize data from FSEC for demand and energy savings. The

company will collect SWH system costs and the number of people living in the residence.

21. Any unused funds for this program will be transferred to other components of the company's renewable initiative.
22. The reporting requirements for this program are pursuant to Rule 25-17.0021(5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

### **Residential and Commercial PV Rebate Program**

1. Participation is open to residential and commercial customers located in Tampa Electric's service area. Applicant must be owner of premise.
2. Participant must have a south, east or west facing roof area that is not shaded between the hours of 9:00 AM and 3:00 PM annually. The same non-shaded restriction applies to a ground-mounted system. A shading analysis will be required by the contractor using either a Solar Pathfinder or Solmetric SunEye to verify these conditions. Site selection is subject to Tampa Electric's approval.
3. Rebate: \$2/watt DC for residential and commercial. Maximum incentive \$20,000 per premise, lifetime. All rebate payments will be made to the owner of premise.
4. A Tampa Electric energy audit is required prior to system installation to qualify for the rebate. If system construction or installation occurs prior to the required audit, Tampa Electric has no obligation to make a rebate payment to the applicant.
5. The reservation process for available annual funds will be managed on a first come first serve basis.
6. Reservations for available annual funds will begin October 1<sup>st</sup> of the previous year and close September 30<sup>th</sup> of the current funding year. Once all available annual funds have been assigned, no additional reservations will be accepted for that year unless other funds become available for use by this program.
7. Tampa Electric's reservation process for the PV Program will utilize a web-based process, which will be managed on a first come, first served basis. Specifically, customers will access a reservation form on the company's web site. The web site will allow customer reservations until the maximum number has been reached. When the maximum number of reservations has been reached, the system will begin collecting a list of "interested parties" with their contact information.

8. Once a customer has obtained a reservation, Tampa Electric will contact the customer to schedule a free home energy audit. The audit will verify the availability of qualifying roof space. After this verification, the customer will have 90 days to install the PV system and submit the required documentation to Tampa Electric.
9. In the event customers with reservations do not qualify, decide not to move forward with the installation, or do not provide proof of installation within the required time period, the reservation process will be evaluated and reopened quarterly. All “interested parties” that provided contact information will then be notified and afforded the opportunity to secure a reservation. The reservations will again be first come, first served for the remaining funds.
10. In the event that a customer does not have access to the internet, the customer will have the option to call Tampa Electric’s designated solar incentive line and a representative will provide assistance for completing the reservation form and providing a hard copy confirmation to the customer.
11. Limit one reservation per premise per funding year until a maximum of \$20,000 has been paid on the premise.
12. System components and installation must meet local, state and federal regulations and building codes.
13. A licensed solar contractor or electrical contractor with solar certification must install the system.
14. A copy of the local code enforcement inspection report must be provided to Tampa Electric prior to disbursement of rebate.
15. The application for rebate must include a digital photo of the PV system and its disconnect switch as well as a copy of the PV system invoice or purchase agreement with licensed contractor.
16. The PV system must be grid-connected. The applicant shall meet all applicable interconnection requirements as set forth in Tampa Electric’s Standard Interconnection Agreement for Renewable Generator Systems in accordance with Rule 25-6.065 F.A.C. The interconnection agreement must be signed by owner of the premise and Tampa Electric.
17. All PV system components must be new. Retrofits, upgrades and systems relocated from another premise do not qualify for a rebate.
18. New construction installations will be limited to no more than 20 percent of systems receiving rebates.
19. Commercial rebates will be limited to a maximum of 40 percent of annual allocation.

20. System must be installed and all required documentation must be submitted to Tampa Electric within 90 days of the energy audit. Failure to submit the completed PV rebate form and required documents within 90 days shall void the reservation and funding for this reservation will be reassigned. If there is additional funding available, the applicant may reapply for the rebate.
21. Tampa Electric will perform field verifications on all installations.
22. Any unused funds for this program will be transferred to other components of the company's renewable initiative.
23. The reporting requirements for this program are pursuant to Rule 25-17.0021(5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

### **Low Income SWH Program**

1. Participation is limited to new construction single-family housing built in collaboration with non-profit building organizations. Home must be located in Tampa Electric service area.
2. Participant must have a south, east or west facing roof area that is not shaded between the hours of 9:00 AM and 3:00 PM annually. The same non-shaded restriction applies to a ground mounted system. A shading analysis will be required by the contractor using either a Solar Pathfinder or Solmetric SunEye to verify these conditions. Site selection is subject to Tampa Electric's approval.
3. Customer eligibility will be determined by the non-profit building organizations.
4. Funding will provide a SWH system for a maximum of five houses per year.
5. A State of Florida licensed contractor will be used to install the SWH system.
6. System components and installation must meet local, state and federal regulations and building codes.
7. The system must be certified by Florida Solar Energy Center ("FSEC"). A copy of the FSEC System Certification sheet or certification number must be submitted with rebate application.
8. Contractors shall indemnify and hold harmless Tampa Electric from any and all losses, liabilities, injuries, damages, claims or costs whatsoever caused by items furnished or services rendered as a result of this program.
9. Any unused funds for this program will be transferred to other components of the company's renewable initiative.

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