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11 MAY 12 PM 12:40

COMMISSION
CLERK

May 12, 2011

VIA HAND DELIVERY

Ms. Ann Cole
Division of the Commission Clerk and
Administrative Services
Florida Public Service Commission
Betty Easley Conference Center
2540 Shumard Oak Boulevard, Room 110
Tallahassee, FL 32399-0850

Re: Docket No. 100155-EG

Dear Ms. Cole:

Enclosed for Staff administrative approval are an original and five (5) copies of Florida Power & Light Company's ("FPL") revised Solar Pilot Program Standards in both clean and legislative format, pursuant to Staff's request.

FPL respectfully requests administrative approval of these standards upon completion of Staff's review.

Sincerely,

Jessica A. Cano
Principal Attorney

- COM _____ Enclosures
 - APA _____ cc: parties of record (w/enclosures)
 - ECR _____
 - GCI _____
 - RAD 4
 - SSC _____
 - ADM _____
 - OPC _____
 - CLK _____
- an FPL Group company

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Business Photovoltaic Pilot

Program Standards

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**Florida Power & Light Company
Business Photovoltaic Pilot**

Program Standards

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Program Objectives

Description of purpose of program

The purpose of the Business Photovoltaic (PV) Pilot Program is to reduce energy consumption and the growth of coincident peak demand by encouraging customers to install PV systems in businesses.

Measures included in program

The measure included in this program is a PV system consisting of solar electric panels, mounting hardware, grid-interactive electric inverter(s), optional battery systems, associated cabling and, for systems over 10 kW AC, disconnect devices.

Output to the customers

Customers will receive a rebate to be applied towards the purchase of a qualifying PV system, technical assistance from FPL and reduced energy consumption.

Customer Requirements

Customer / premise eligibility

This program is available to all existing FPL business customers.

Eligible rates

All metered commercial/industrial retail rate schedules are eligible.

Dwelling / building type

All business building types are eligible for this program.

Age of dwelling / building type

All existing business buildings are eligible for this program.

Restriction from re-participation and exceptions

Each premise is eligible for one rebate for the duration of the pilot program.

For the purpose of this standard, a premise is defined as a business under the control of a single customer where electric utility service terminates. Separate buildings and adjoining buildings in a group of buildings, which have separate FPL electric service, and contain separate businesses, are separate premises.

Other customer requirements

Customers must submit an application to FPL and receive a reservation confirmation prior to the installation of a PV system. FPL's approval of this application is not a guarantee of a rebate payment. The payment of a rebate will be dependent upon final verification by FPL that all program requirements have been completed to the satisfaction of FPL.

The PV system must be interconnected to FPL through the service of the customer of record. The customer of record must sign a Net Metering Interconnection Agreement as per Rule 25-6.065, Net Metering of Customer-Owned Renewable Generation (Interconnection Agreement).

Contractor Requirements

Licensing requirements

The contractor selected by the customer must meet any and all applicable legal licensing requirements of the State of Florida and local municipalities for the work being performed.

Eligible Equipment Requirements

Definition of system

The PV system consists of solar electric panels, mounting hardware, grid-interactive electric inverter(s), optional battery systems, associated cabling and, for systems over 10 kW AC, disconnect devices.

Accreditation of ratings

All customer-owned PV system components shall be tested and listed by a nationally recognized testing and certification laboratory for continuous interactive operation with an electric distribution system in compliance with the applicable codes and standards of IEEE 1547, IEEE 1547.1, and UL 1741.

Minimum efficiency

Not applicable

Minimum or maximum size of eligible equipment

The PV system must have a minimum nameplate rating of 2 kW direct current (DC), and a maximum nameplate rating of 2 MW DC to be eligible for a rebate.

Additional equipment requirements

All products installed must be new, not refurbished, nor previously installed. This rebate program is only for grid-interactive PV systems.

Installation Requirements

Specific installation requirements

The PV panels must be mounted flat or tilted to a south, east or west orientation. The system must be designed so that a PVWatts-1 calculation for the system indicates a minimum annual production of 1000 kWh per DC kW installed. The PVWatts-1 calculation value must be provided to FPL during the initial reservation application submittal. All installations must comply with all local, state and federal statutes, codes, ordinances and accepted engineering practices.

Installation completed by contractor or customer

Non-governmental installations must be completed by a licensed contractor. Self-installation is only permitted by governmental customers.

Pre-approval / pre-verification

System installation must not begin until FPL approval of the reservation is confirmed with receipt of a current reservation number. FPL reserves the right to conduct a pre-installation verification of the proposed installation site.

FPL will endeavor to notify customers of the status of their application for a rebate reservation within 3 business days from the date that it is received by FPL.

Fees or charges

Fees and charges for systems installed under this program are limited to the appropriate application fees associated with the FPL Net Metering Interconnection Agreement.

Timing to correct installation deficiencies

The customer will have 30 calendar days from the date of formal notification of deficiencies by FPL, to make any corrections. Extensions may be granted on a case-by-case basis at FPL's sole discretion.

Other installation requirements

Within 120 days of the date of FPL's reservation approval, the customer must have: a completed system installation, an approved final inspection by the Authority Having Jurisdiction, and all required documents submitted to FPL. The 120-day completion requirement may be extended on a case-by-case basis at FPL's sole discretion.

The installation must meet all of the requirements of the appropriate FPL Net Metering Interconnection Agreement including submitting a completed FPL Net Metering Interconnection Agreement application, approved building permit and, for systems greater than 10 kW AC, appropriate proof of insurance, payment of application fee and the installation of any and all manual visible load break switches as approved by FPL.

FPL installation verification

FPL reserves the right to verify each installation, and the installations must be accessible for such verification. FPL will be the final judge of whether the program requirements have been met. Note that any verification activities by FPL personnel shall not be construed as any representation, assurance, guarantee or warranty by FPL of the safety, durability, suitability, quality, or reliability of the system.

Rebate Processing

Rebate schedule

- A rebate of \$2 per direct current (DC) watt nameplate rating of the solar panel up to the first 10,000 watts,
- \$1.50 per DC watt nameplate rating of the solar panel greater than 10,000 watts up to 25,000 watts, and
- \$1 per DC watt nameplate rating of the solar panel greater than 25,000 watts up to a maximum rebate per premise of \$50,000.

In addition, customers/corporations with multiple premises can receive a maximum combined rebate for their premises of up to \$150,000 per funding year.

Rebate payment method

The customer is required to have a valid FPL reservation number for each eligible premise prior to the installation. The FPL Rebate Certificate and all paperwork must be completed in the name of the FPL customer of record. The customer will be paid upon completion of the installation and final verification, if applicable.

Issuance of FPL Rebate Certificate

The program will be administered by FPL through an application and reservation process. Reservations will be awarded to customers on a first-come-first-serve basis. Reservations will be limited to the funds as initially allocated, or as may be adjusted from time to time, to the program for each year.

The required documentation to complete an installation and request payment includes, but is not limited to:

- The FPL Rebate Certificate with the customer signature;
- A signed purchase agreement contract;
- A document showing the anticipated annual electric production using the PVWatts-1 calculation for the proposed system (including the appropriate derate for any shading);
- Digital photos of the installation and panel nameplate(s);
- A copy of the contractor's invoice to the customer;
- A copy of all appropriate final passed permits, the date of issuance of which must be after the rebate reservation date;
- A signed interconnection agreement; and
- A one-line diagram of the PV system.

All information and required documentation associated with the installation must be submitted by the customer to FPL within 120 days from the date of reservation approval. The 120-day completion requirement may be waived on a case-by-case basis at the sole discretion of FPL.

The "funding year" begins January 1st of each year of the pilot. Each funding year's dollars will be applied to reservations received from October 1st of the prior year through September 30th of the funding year. If on September 30th, additional funds remain, FPL may, if practical and at its sole discretion, attempt to apply these monies to applicants approved on or after October 1st of the current year. Otherwise rebates for reservations after September 30th will be paid during the next funding year. Applications in a given funding year will only be accepted until all program rebate funds have been committed. In the final funding year of the pilot, customers must complete the installation and submit all required documentation by November 1st in order to receive a rebate.

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Fees or charges

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Timing to correct installation deficiencies

The customer will have 30 calendar days from the date of formal notification of deficiencies by FPL, to make any corrections. Extensions may be granted on a case-by-case basis at FPL's sole discretion.

Other installation requirements

Within 120 days of the date of FPL's reservation approval, the customer must have: a completed system installation, an approved final inspection by the Authority Having Jurisdiction, and all required documents submitted to FPL. The 120-day completion requirement may be extended on a case-by-case basis at FPL's sole discretion.

The installation must meet all of the requirements of the appropriate FPL Net Metering Interconnection Agreement including submitting a completed FPL Net Metering Interconnection Agreement application, approved building permit and, for systems greater than 10 kW AC, appropriate proof of insurance, payment of application fee and the installation of any and all manual visible load break switches as approved by FPL.

FPL installation verification

FPL reserves the right to verify each installation, and the installations must be accessible for such verification. FPL will be the final judge of whether the program requirements have been met. Note that any verification activities by FPL personnel shall not be construed as any representation, assurance, guarantee or warranty by FPL of the safety, durability, suitability, quality, or reliability of the system.

Rebate Processing

Rebate schedule

- A rebate of \$2 per direct current (DC) watt nameplate rating of the solar panel up to the first 10,000 watts,
- \$1.50 per DC watt nameplate rating of the solar panel greater than 10,000 watts up to 25,000 watts, and
- \$1 per DC watt nameplate rating of the solar panel greater than 25,000 watts up to a maximum rebate per premise of \$50,000.

In addition, customers/corporations with multiple ~~locations~~ premises can receive a maximum combined rebate for their ~~locations~~ premises of up to \$150,000 per funding year.

Rebate payment method

The customer is required to have a valid FPL reservation number for each eligible premise prior to the installation. The FPL Rebate Certificate and all paperwork must be completed in the name of the FPL customer of record. The customer will be paid upon completion of the installation and final verification, if applicable.

Issuance of FPL Rebate Certificate

The program will be administered by FPL through an application and reservation process. Reservations will be awarded to customers on a first-come-first-serve basis. Reservations will be limited to the funds as initially allocated, or as may be adjusted from time to time, to the program for each year.

The required documentation to complete an installation and request payment includes, but is not limited to:

- The FPL Rebate Certificate with ~~both~~ the customer's and contractor's signature;
- A signed purchase agreement contract;
- A document showing the anticipated annual electric production using the PVWatts-1 calculation for the proposed system (including the appropriate derate for any shading);
- Digital photos of the installation and panel nameplate(s);
- A copy of the contractor's invoice to the customer ~~showing the rebate deduction~~;

- A copy of all appropriate final passed permits, the date of issuance of which must be after the rebate reservation date;
- A signed interconnection agreement; and
- A one-line diagram of the PV system.

All information and required documentation associated with the installation must be submitted by the customer to FPL within 120 days from the date of reservation approval. The 120-day completion requirement may be waived on a case-by-case basis at the sole discretion of FPL.

The “funding year” begins January 1st of each year of the pilot. Each funding year’s dollars will be applied to reservations received from October 1st of the prior year through September 30th of the funding year. If on September 30th, additional funds remain, FPL may, if practical and at its sole discretion, attempt to apply these monies to applicants approved on or after October 1st of the current year. Otherwise rebates for reservations after September 30th will be paid during the next funding year. Applications in a given funding year will only be accepted until all program rebate funds have been committed. In the final funding year of the pilot, customers must complete the installation and submit all required documentation by November 1st in order to receive a rebate.

Reporting Requirements

All program charges such as payroll & benefits, material and supplies, outside services, advertising, vehicles, other and rebate costs shall be reported as part of the Energy Conservation Cost Recovery True-Up and Projection filings.

FPL will evaluate the energy and demand impacts through the use of engineering modeling analyses. This modeling will be calibrated with onsite metering research in a manner that most cost-effectively meets the overall impact evaluation objectives. For a statistically valid sample, FPL will analyze individual hourly energy and demand impacts, engineering and system design variations and their impact on energy and demand; analyze the billing impacts to customers while analyzing the data based on system size and configurations; and plan to meter the actual energy performance. FPL will monitor the costs over the life of the pilot program.



Residential Photovoltaic Pilot

Program Standards

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Residential Photovoltaic Pilot**

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Program Objectives

Description of purpose of program

The purpose of the Residential Photovoltaic (PV) Pilot Program is to reduce energy consumption and the growth of coincident peak demand by encouraging customers to install PV systems in residential dwellings.

Measures included in program

The measure included in this program is a PV system consisting of solar electric panels, mounting hardware, grid-interactive electric inverter(s), optional battery systems, associated cabling, and for systems over 10 kW AC, disconnect devices.

Output to the customers

Customers will receive a rebate to be applied towards the purchase of a qualifying PV system, technical assistance from FPL and reduced energy consumption.

Customer Requirements

Customer / premise eligibility

This program is available to all existing FPL residential customers.

Eligible rates

All metered residential retail rate schedules are eligible.

Dwelling / building type

All residential dwelling types are eligible for this program.

Age of dwelling / building type

All existing residential dwellings are eligible for this program.

Restriction from re-participation and exceptions

Each premise is eligible for one rebate for the duration of the pilot program.

For the purpose of this standard, a premise is defined as a dwelling under the control of a single customer where electric utility service terminates. Separate buildings and adjoining buildings in a group of buildings, which have separate FPL electric service, and contain separate dwellings, are separate premises.

Other customer requirements

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Definition of system

The PV system consists of solar electric panels, mounting hardware, grid-interactive electric inverter(s), optional battery systems, associated cabling, and for systems over 10 kW AC, disconnect devices.

Accreditation of ratings

All customer-owned PV system components shall be tested and listed by a nationally recognized testing and certification laboratory for continuous interactive operation with an electric distribution system in compliance with the applicable codes and standards of IEEE 1547, IEEE 1547.1, and UL 1741.

Minimum efficiency

Not applicable

Minimum or maximum size of eligible equipment

The PV system must have a minimum nameplate rating of 2 kW direct current (DC), and a maximum nameplate rating of 2 MW DC to be eligible for a rebate.

Additional equipment requirements

All products installed must be new, not refurbished, nor previously installed. This rebate program is only for grid-interactive PV systems.

Installation Requirements

Specific installation requirements

The PV panels must be mounted flat, or tilted to a south, east or west orientation.

The system must be designed so that a PVWatts-1 calculation for the system indicates a minimum annual production of 1000 kWh per DC kW installed. The PVWatts-1 calculation value must be provided to FPL during the initial reservation application submittal. All installations must comply with all local, state and federal statutes, codes, ordinances, and accepted engineering practices.

Installation completed by contractor or customer

Installations must be completed by a licensed contractor. Self-installation by a customer who is not a licensed contractor is not permitted.

Pre-approval / pre-verification

System installation must not begin until FPL approval of the reservation is confirmed with receipt of a current reservation number. FPL reserves the right to conduct a pre-installation verification of the proposed installation site.

FPL will endeavor to notify customers of the status of their application for a rebate reservation within 3 business days from the date that it is received by FPL.

Fees or charges

Fees and charges for systems installed under this program are limited to the appropriate application fees associated with the FPL Net Metering Interconnection Agreement.

Timing to correct installation deficiencies

The customer will have 30 calendar days from the date of formal notification of deficiencies by FPL to make any corrections. Extensions may be granted on a case-by-case basis, at FPL's sole discretion.

Other installation requirements

Within 90 days of the date of FPL's reservation approval, the customer must have: a completed system installation, an approved final inspection by the Authority Having Jurisdiction, and all required documents submitted to FPL. The 90-day completion requirement may be extended on a case-by-case basis at FPL's sole discretion.

The installation must meet all of the requirements of the FPL Net Metering Interconnection Agreement including submitting a completed FPL Interconnection Agreement application, approved building permit, and for systems greater than 10 kW AC, appropriate proof of insurance, payment of application fee and the installation of any and all manual visible load break switches as approved by FPL.

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Rebate Processing**Rebate schedule**

A rebate of \$2 per direct current (DC) Watt nameplate rating of the solar panels up to a maximum rebate per premise of \$20,000.

Rebate payment method

The customer is required to have a valid FPL reservation number for each eligible premise prior to the installation. The FPL Rebate Certificate and all paperwork must be completed in the name of the FPL customer of record. The customer will be paid upon completion of the installation and final verification, if applicable.

Issuance of FPL Rebate Certificate

The program will be administered by FPL through an application and reservation process. Reservations will be awarded to customers on a first-come-first-serve basis. Reservations will be limited to the funds as initially allocated, or as may be adjusted from time to time, to the program for each year.

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- The FPL Rebate Certificate with the customer signature;
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- A copy of the contractor's invoice to the customer;
- A signed interconnection agreement;
- A one-line diagram of the PV system; and
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Program Objectives

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The purpose of the Residential Photovoltaic (PV) Pilot Program is to reduce energy consumption and the growth of coincident peak demand by encouraging customers to install PV systems in residential dwellings.

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Pre-approval / pre-verification

System installation must not begin until FPL approval of the reservation is confirmed with receipt of a current reservation number. FPL reserves the right to conduct a pre-installation verification of the proposed installation site.

FPL will endeavor to notify customers of the status of their application for a rebate reservation within 3 business days from the date that it is received by FPL.

Fees or charges

Fees and charges for systems installed under this program are limited to the appropriate application fees associated with the FPL Net Metering Interconnection Agreement.

Timing to correct installation deficiencies

The customer will have 30 calendar days from the date of formal notification of deficiencies by FPL to make any corrections. Extensions may be granted on a case-by-case basis, at FPL's sole discretion.

Other installation requirements

Within 90 days of the date of FPL's reservation approval, the customer must have: a completed system installation, an approved final inspection by the Authority Having Jurisdiction, and all required documents submitted to FPL. The 90-day completion requirement may be extended on a case-by-case basis at FPL's sole discretion.

The installation must meet all of the requirements of the FPL Net Metering Interconnection Agreement including submitting a completed FPL Interconnection Agreement application, approved building permit, and for systems greater than 10 kW AC, appropriate proof of insurance, payment of application fee and the installation of any and all manual visible load break switches as approved by FPL.

FPL installation verification

FPL reserves the right to verify each installation, and the installations must be accessible for such verification. FPL will be the final judge of whether the program requirements have been met. Note that any verification activities by FPL personnel shall not be construed as any representation, assurance, guarantee or warranty by FPL of the safety, durability, suitability, quality, or reliability of the system.

Rebate Processing

Rebate schedule

A rebate of \$2 per direct current (DC) Watt nameplate rating of the solar panels up to a maximum rebate per premise of \$20,000.

Rebate payment method

The customer is required to have a valid FPL reservation number for each eligible premise prior to the installation. The FPL Rebate Certificate and all paperwork must be completed in the name of the FPL customer of record. The customer will be paid upon completion of the installation and final verification, if applicable.

Issuance of FPL Rebate Certificate

The program will be administered by FPL through an application and reservation process. Reservations will be awarded to customers on a first-come-first-serve basis. Reservations will be limited to the funds as initially allocated, or as may be adjusted from time to time, to the program for each year.

The required documentation to complete an installation and request payment includes, but is not limited to:

- The FPL Rebate Certificate with ~~both the customer's and contractor's~~ signature;
- A signed purchase agreement;
- A document showing the anticipated annual electric production using the PVWatts-1 calculation for the proposed system (including any appropriate derate for any shading);
- Digital photos of the installation and panel nameplate(s);
- A copy of the contractor's invoice to the customer ~~showing the rebate deduction~~;
- A signed interconnection agreement;
- A one-line diagram of the PV system; and
- A copy of the appropriate final passed permit, the date of issuance of which must be after the rebate reservation date.

All information and required documentation associated with the installation must be submitted by the customer to FPL within 90 days from the date of reservation approval. The 90-day completion requirement may be waived on a case-by-case basis at the sole discretion of FPL.

The "funding year" begins January 1st of each year of the pilot. Each funding year's dollars will be applied to reservations received from October 1st of the prior year through September 30th of the funding year. If on September 30th, additional funds remain, FPL may, if practical and at its sole discretion, attempt to apply these monies to applicants approved on or after October 1st of the current year. Otherwise rebates for reservations after September 30th will be paid during the next funding year. Applications in a given funding year will only be accepted until all program rebate funds have been committed. In the final funding year of the pilot, customers must complete the installation and submit all required documentation by November 1st in order to receive a rebate.

Reporting Requirements

All program charges such as payroll & benefits, material and supplies, outside services, advertising, vehicles, other and rebate costs shall be reported as part of the Energy Conservation Cost Recovery True-Up and Projection filings.

FPL will evaluate the energy and demand impacts through the use of engineering modeling analyses. This modeling will be calibrated with onsite metering research in a manner that most cost-effectively meets the overall impact evaluation objectives. For a statistically valid sample, FPL will analyze individual hourly energy and demand impacts, engineering and system design variations and their impact on energy and demand; analyze the billing impacts to customers while analyzing the data based on system size and configurations; and plan to meter the actual energy performance. FPL will monitor the installed costs over the life of the pilot program.



Photovoltaic for Schools Pilot

Program Standards

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**Florida Power & Light Company
Photovoltaic for Schools Pilot**

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Program Objectives

Description of purpose of program

The Photovoltaic (PV) for Schools Pilot Program is designed to reduce energy consumption and the growth of coincident peak demand. Its other purpose is to educate future generations on the practical application of a PV system by providing systems and educational materials to selected schools in each public school district in FPL's territory.

Measures included in program

The measure included in this program is a PV system consisting of solar electric panels, mounting hardware, grid-interactive inverter(s), associated equipment, and an on-line data acquisition system to be used by the schools in their renewable energy education curriculum.

Output to the customers

Each school will receive a PV system, teacher training and educational materials, in addition to the reduced energy consumption and technical assistance on the operation of the PV system.

Customer Requirements

Customer / premise eligibility

All existing K-12 public schools served by FPL are eligible.

Eligible rates

All metered commercial/industrial retail rate schedules are eligible.

Dwelling / building type

All public school building types are eligible for this program.

Age of dwelling / building type

All existing public school buildings are eligible for this program.

Restriction from re-participation and exceptions

An individual school is eligible for only one solar installation during the duration of the pilot program.

Other customer requirements

The school district must provide a sufficiently sized, accessible, unshaded area to accommodate the PV system. The participating school must have, and be willing to maintain, a science teaching position at that school trained to present curriculum related to the PV installation. Prior to the installation of the PV system, the school district must submit an application and a Net Metering Interconnection Agreement as per Rule 25-6.065, Net Metering of Customer-owned Renewable Generation

(Interconnection Agreement). The school district must partner with FPL to select and approve the specific schools and commit to facilitating the installation of the PV system within the funding year. The school must supply an internet connection through the school's internet system to provide monitoring information to the classrooms, the school district and FPL.

FPL will own and repair the PV system for the first five years following installation. At the end of the five year period, FPL will transfer ownership to the school district and all responsibility for the operation and maintenance of the system.

Contractor Requirements

Licensing requirements

The contractor must meet any and all applicable legal licensing requirements of the State of Florida and local municipalities for the work being performed.

Other contractor requirements

FPL will select the licensed contractor to construct each system. The selected contractor will be responsible for all work performed and maintenance for the first five years of the system operation. The contractor must comply with all FPL requirements and must commission and certify each system.

Eligible Equipment Requirements

Definition of system

A PV system consists of solar panels of approximately 5 kW or 10 kW direct current (DC) ratings, mounting hardware, grid-interactive inverter(s), associated cabling, and an on-line data acquisition system to be used to transmit educational information to the school districts through the schools' internet system.

Accreditation of ratings

The PV system components shall be tested and listed by a nationally recognized testing and certification laboratory for continuous interactive operation with an electric distribution system in compliance with the applicable codes and standards of IEEE 1547, IEEE 1547.1, and UL 1741.

Additional equipment requirements

All installed systems must have at least a five year warranty on equipment and installation beginning on the in-service date.

Installation Requirements

Specific installation requirements

The PV system will be installed using a design approved by FPL. The installations must comply with all local, state and federal statutes, codes, ordinances, and accepted engineering practices.

Fees or charges

There are no fees or charges to be paid by the customer for systems installed under this program.

Other installation requirements

If the customer requires a fence around the PV system, then the cost of purchasing and installing the fence will be the responsibility of the school district. Following installation, FPL will provide each school with copies of applicable warranties, system design schematics, manuals, maintenance instructions, and provide basic instructions on the operation of the system. In addition to the PV system, FPL will provide classroom PV instruction kits, training for one or more teachers and instructions for school maintenance personnel regarding the operation and maintenance of the system.

Reporting Requirements

All program charges such as payroll & benefits, material and supplies, outside services, advertising, vehicles, other and rebate costs shall be reported as part of the Energy Conservation Cost Recovery True-Up and Projection filings.

FPL will evaluate the energy and demand impacts through the use of engineering modeling analyses. This modeling will be calibrated with onsite metering research in a manner that most cost-effectively meets the overall impact evaluation objectives. For a statistically valid sample, FPL will analyze individual hourly energy and demand impacts, engineering and system design variations and their impact on energy and demand; analyze the billing impacts to customers while analyzing the data based on system size and configurations; and plan to meter the actual energy performance. FPL will monitor the installed costs over the life of the pilot program.



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Program Objectives

Description of purpose of program

The Photovoltaic (PV) for Schools Pilot Program is designed to reduce energy consumption and the growth of coincident peak demand. Its other purpose is to educate future generations on the practical application of a PV system by providing systems and educational materials to selected schools in each public school district in FPL's territory.

Measures included in program

The measure included in this program is a PV system consisting of solar electric panels, mounting hardware, grid-interactive inverter(s), associated equipment, and an on-line data acquisition system to be used by the schools in their renewable energy education curriculum.

Output to the customers

Each school will receive a PV system, teacher training and educational materials, in addition to the reduced energy consumption and technical assistance on the operation of the PV system.

Customer Requirements

Customer / premise eligibility

All existing K-12 public schools served by FPL are eligible.

Eligible rates

All metered commercial/industrial retail rate schedules are eligible.

Dwelling / building type

All public school building types are eligible for this program.

Age of dwelling / building type

All existing public school buildings are eligible for this program.

Restriction from re-participation and exceptions

An individual school is eligible for only one solar installation during the duration of the pilot program.

Other customer requirements

The school district must provide a sufficiently sized, accessible, unshaded area to accommodate the PV system. The participating school must have, and be willing to maintain, a science teaching position at that school trained to present curriculum related to the PV installation. Prior to the installation of the PV system, the school district must submit an application and a Net Metering Interconnection Agreement as per Rule 25-6.065, Net Metering of Customer-owned Renewable Generation

(Interconnection Agreement). The school district must partner with FPL to select and approve the specific schools and commit to facilitating the installation of the PV system within the funding year. The school must supply an internet connection through the school's internet system to provide monitoring information to the classrooms, the school district and FPL.

FPL will own and repair the PV system for the first five years following installation. At the end of the five year period, FPL will transfer ownership to the school district and all responsibility for the operation and maintenance of the system.

Contractor Requirements

Licensing requirements

The contractor must meet any and all applicable legal licensing requirements of the State of Florida and local municipalities for the work being performed.

Other contractor requirements

FPL will select the licensed contractor to construct each system. The selected contractor will be responsible for all work performed and maintenance for the first five years of the system operation. The contractor must comply with all FPL requirements and must commission and certify each system.

Eligible Equipment Requirements

Definition of system

A PV system consists of solar panels of approximately 5 kW or 10 kW direct current (DC) ratings, mounting hardware, grid-interactive inverter(s), associated cabling, and an on-line data acquisition system to be used to transmit educational information to the school districts through the schools' internet system.

Accreditation of ratings

The PV system components shall be tested and listed by a nationally recognized testing and certification laboratory for continuous interactive operation with an electric distribution system in compliance with the applicable codes and standards of IEEE 1547, IEEE 1547.1, and UL 1741.

Additional equipment requirements

All installed systems must have at least a five year warranty on equipment and installation beginning on the in-service date.

Installation Requirements

Specific installation requirements

The PV system will be installed using a design approved by FPL. The installations must comply with all local, state and federal statutes, codes, ordinances, and accepted engineering practices.

Fees or charges

There are no fees or charges to be paid by the customer for systems installed under this program.

Other installation requirements

If the customer requires a fence around the PV system, then the cost of purchasing and installing the fence will be the responsibility of the school district. Following installation, FPL will provide each school with copies of applicable warranties, system design schematics, manuals, maintenance instructions, and provide basic instructions on the operation of the system. In addition to the PV system, FPL will provide classroom PV instruction kits, training for one or more teachers and instructions for school maintenance personnel regarding the operation and maintenance of the system.

Reporting Requirements

All program charges such as payroll & benefits, material and supplies, outside services, advertising, vehicles, other and rebate costs shall be reported as part of the Energy Conservation Cost Recovery True-Up and Projection filings.

FPL will evaluate the energy and demand impacts through the use of engineering modeling analyses. This modeling will be calibrated with onsite metering research in a manner that most cost-effectively meets the overall impact evaluation objectives. For a statistically valid sample, FPL will analyze individual hourly energy and demand impacts, engineering and system design variations and their impact on energy and demand; analyze the billing impacts to customers while analyzing the data based on system size and configurations; and plan to meter the actual energy performance. FPL will monitor the installed costs over the life of the pilot program.



Business Solar Water Heating Pilot

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Program Objectives

Description of purpose of program

The purpose of the Business Solar Water Heating Pilot Program is to reduce energy consumption and the growth of coincident peak demand by encouraging customers to install solar water heating systems in businesses.

Measures included in program

The measure included in this program is a solar water heating system, consisting of solar thermal collectors, pumps, mounting hardware, and a water retention tank.

Output to the customers

Customers will receive a rebate towards the purchase of a qualifying solar water heating system, technical assistance from FPL and reduced energy consumption.

Customer Requirements

Customer / premise eligibility

This program is available to all existing FPL business customers with electric or gas water heating.

Eligible rates

All metered commercial/industrial retail rate schedules are eligible.

Dwelling / building type

All business building types are eligible for this program.

Age of dwelling / building type

All existing business buildings are eligible for this program.

Restriction from re-participation and exceptions

Each premise is eligible for one rebate for the duration of the pilot program.

For the purpose of this standard, a premise is defined as a business under the control of a single customer where electric utility service terminates. Separate buildings and adjoining buildings in a group of buildings, which have separate FPL electric service, and contain separate businesses, are separate premises.

Other customer requirements

Customers must submit an application to FPL and receive a reservation confirmation prior to the installation of a solar water heating system. FPL's approval of this application is not a guarantee of a rebate payment. The payment

of a rebate will be dependent upon final verification by FPL that all program requirements have been completed to the satisfaction of FPL.

Contractor Requirements

Licensing requirements

The contractor selected by the customer must meet any and all applicable legal licensing requirements of the State of Florida and local municipalities for the work being performed.

Eligible Equipment Requirements

Definition of system

The solar water heating system consists of solar thermal collectors, pumps, mounting hardware, and a water retention tank.

Accreditation of ratings

All solar thermal collectors must be approved and certified by the Florida Solar Energy Center (FSEC) and have FSEC solar thermal collector certification numbers.

Minimum efficiency

Not applicable

Minimum or maximum size of eligible equipment

Not applicable

Additional equipment requirements

Solar pool heaters do not qualify. All products installed must be new, not refurbished nor previously installed.

Installation Requirements

Specific installation requirements

Solar thermal collectors must be mounted flat or tilted to a south, east or west orientation. All installations must comply with any and all local, state and federal statutes, codes, ordinances, and accepted engineering practices.

Installation completed by contractor or customer

Non-governmental installations must be completed by a licensed contractor. Self-installation is only permitted for governmental customers.

Pre-approval / pre-verification

System installation must not begin until FPL approval of the reservation is confirmed with receipt of a current reservation number. FPL reserves the right to conduct a pre-installation verification of the proposed installation site.

FPL will endeavor to notify customers of the status of their application for a rebate reservation within 3 business days from the date that it is received by FPL.

Fees or charges

There are no fees or charges for this program.

Timing to correct installation deficiencies

The customer will have 30 calendar days from the date of formal notification of deficiencies by FPL to make any corrections. Extensions may be granted on a case-by-case basis at FPL's sole discretion.

Other installation requirements

Within 120 days of the date of FPL's reservation approval, the customer must have: a completed system installation, an approved final inspection by the Authority Having Jurisdiction and all required documents submitted to FPL. The 120-day completion requirement may be extended on a case-by-case basis at FPL's sole discretion. The thermostat on the roof must be set for freeze protection and set to protect against injecting overnight cold water into the tank.

FPL installation verification

FPL reserves the right to verify each installation and the installations must be accessible for such verification. FPL will be the final judge of whether the program requirements have been met. Note that any verification activities by FPL personnel shall not be construed as any representation, assurance, guarantee or warranty by FPL of the safety, durability, suitability, quality, or reliability of the system.

Rebate Processing**Rebate schedule**

A per premise rebate of \$30 per 1,000 BTU/h/day of the maximum rated output of the installed system will be paid towards the cost of purchasing a solar water heating system, up to a maximum rebate \$50,000 per premise. In addition, customers/corporations with multiple premises can receive a maximum combined rebate for their premises of up to \$150,000 per funding year.

Rebate payment method

The customer is required to have a valid FPL reservation number for each eligible premise prior to the installation. The FPL Rebate Certificate and all

paperwork must be completed in the name of the FPL customer of record. The customer will be paid upon completion of the installation and final verification, if applicable.

Issuance of FPL Rebate Certificate

The program will be administered by FPL through an application and reservation process. Reservations will be awarded to customers on a first-come-first-serve basis. Reservations will be limited to the funds as initially allocated, or as may be adjusted from time to time, to the program for each year.

The required documentation to complete an installation and request payment includes, but is not limited to:

- The FPL Rebate Certificate with customer signature;
- A signed purchase agreement contract;
- Digital photos of the installation and collector nameplate(s);
- A copy of the contractor's invoice to the customer;
- A copy of the appropriate final passed permits; the date of issuance of which must be after the rebate reservation date; and
- A one-line diagram of the solar water heating system.

All information and required documentation associated with the installation must be submitted by the customer to FPL within 120 days from the date of reservation approval. The 120-day completion requirement may be waived on a case-by-case basis at the sole discretion of FPL.

The "funding year" begins January 1st of each year of the pilot. Each funding year's dollars will be applied to reservations received from October 1st of the prior year through September 30th of the funding year. If by September 30th additional funds remain, FPL may, if practical and at its sole discretion, attempt to apply these monies to applicants approved on or after October 1st of the current year. Otherwise rebates for reservations after September 30th will be paid during the next funding year. Applications in a given funding year will only be accepted until all program rebate funds have been committed. In the final funding year of the pilot, customers must complete the installation and submit all required documentation by November 1st in order to receive a rebate.

Reporting Requirements

All program charges such as payroll & benefits, material and supplies, outside services, advertising, vehicles, other and rebates costs shall be reported as part of the Energy Conservation Cost Recovery True-Up and Projection filings.

FPL will evaluate the energy and demand impacts through the use of engineering modeling analyses. This modeling will be calibrated with onsite metering research in a manner that most cost-effectively meets the overall impact evaluation objectives. For a statistically valid sample, FPL will analyze individual hourly energy and demand impacts, engineering and system design variations and their impact on energy and demand; analyze the billing impacts to customers while analyzing the data based on system size and configurations; and plan to meter the actual energy saved by the installation. FPL will monitor the installed costs over the life of the pilot program.



Business Solar Water Heating Pilot

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Program Objectives

Description of purpose of program

The purpose of the Business Solar Water Heating Pilot Program is to reduce energy consumption and the growth of coincident peak demand by encouraging customers to install solar water heating systems in businesses.

Measures included in program

The measure included in this program is a solar water heating system, consisting of solar thermal collectors, pumps, mounting hardware, and a water retention tank.

Output to the customers

Customers will receive a rebate towards the purchase of a qualifying solar water heating system, technical assistance from FPL and reduced energy consumption.

Customer Requirements

Customer / premise eligibility

This program is available to all existing FPL business customers with electric or gas water heating.

Eligible rates

All metered commercial/industrial retail rate schedules are eligible.

Dwelling / building type

All business building types are eligible for this program.

Age of dwelling / building type

All existing business buildings are eligible for this program.

Restriction from re-participation and exceptions

Each premise is eligible for one rebate for the duration of the pilot program.

For the purpose of this standard, a premise is defined as a business under the control of a single customer where electric utility service terminates. Separate buildings and adjoining buildings in a group of buildings, which have separate FPL electric service, and contain separate businesses, are separate premises.

Other customer requirements

Customers must submit an application to FPL and receive a reservation confirmation prior to the installation of a solar water heating system. FPL's approval of this application is not a guarantee of a rebate payment. The payment

of a rebate will be dependent upon final verification by FPL that all program requirements have been completed to the satisfaction of FPL.

Contractor Requirements

Licensing requirements

The contractor selected by the customer must meet any and all applicable legal licensing requirements of the State of Florida and local municipalities for the work being performed.

Eligible Equipment Requirements

Definition of system

The solar water heating system consists of solar thermal collectors, pumps, mounting hardware, and a water retention tank.

Accreditation of ratings

All solar thermal collectors must be approved and certified by the Florida Solar Energy Center (FSEC) and have FSEC solar thermal collector certification numbers.

Minimum efficiency

Not applicable

Minimum or maximum size of eligible equipment

Not applicable

Additional equipment requirements

Solar pool heaters do not qualify. All products installed must be new, not refurbished nor previously installed.

Installation Requirements

Specific installation requirements

Solar thermal collectors must be mounted flat or tilted to a south, east or west orientation. All installations must comply with any and all local, state and federal statutes, codes, ordinances, and accepted engineering practices.

Installation completed by contractor or customer

Non-governmental installations must be completed by a licensed contractor. Self-installation is only permitted for governmental customers.

Pre-approval / pre-verification

System installation must not begin until FPL approval of the reservation is confirmed with receipt of a current reservation number. FPL reserves the right to conduct a pre-installation verification of the proposed installation site.

FPL will endeavor to notify customers of the status of their application for a rebate reservation within 3 business days from the date that it is received by FPL.

Fees or charges

There are no fees or charges for this program.

Timing to correct installation deficiencies

The customer will have 30 calendar days from the date of formal notification of deficiencies by FPL to make any corrections. Extensions may be granted on a case-by-case basis at FPL's sole discretion.

Other installation requirements

Within 120 days of the date of FPL's reservation approval, the customer must have: a completed system installation, an approved final inspection by the Authority Having Jurisdiction and all required documents submitted to FPL. The 120-day completion requirement may be extended on a case-by-case basis at FPL's sole discretion. The thermostat on the roof must be set for freeze protection and set to protect against injecting overnight cold water into the tank.

FPL installation verification

FPL reserves the right to verify each installation and the installations must be accessible for such verification. FPL will be the final judge of whether the program requirements have been met. Note that any verification activities by FPL personnel shall not be construed as any representation, assurance, guarantee or warranty by FPL of the safety, durability, suitability, quality, or reliability of the system.

Rebate Processing**Rebate schedule**

A per premise rebate of \$30 per 1,000 BTU/h/day of the maximum rated output of the installed system will be paid towards the cost of purchasing a solar water heating system, up to a maximum rebate \$50,000 per premise. In addition, customers/corporations with multiple ~~locations~~ premises can receive a maximum combined rebate for their premises ~~locations~~ of up to \$150,000 per funding year.

Rebate payment method

The customer is required to have a valid FPL reservation number for each eligible premise prior to the installation. The FPL Rebate Certificate and all

paperwork must be completed in the name of the FPL customer of record. The customer will be paid upon completion of the installation and final verification, if applicable.

Issuance of FPL Rebate Certificate

The program will be administered by FPL through an application and reservation process. Reservations will be awarded to customers on a first-come-first-serve basis. Reservations will be limited to the funds as initially allocated, or as may be adjusted from time to time, to the program for each year.

The required documentation to complete an installation and request payment includes, but is not limited to:

- The FPL Rebate Certificate with ~~both customer's and contractor's~~ signatures;
- A signed purchase agreement contract;
- Digital photos of the installation and collector nameplate(s);
- A copy of the contractor's invoice to the customer;
- A copy of the appropriate final passed permits; the date of issuance of which must be after the rebate reservation date; and
- A one-line diagram of the solar water heating system.

All information and required documentation associated with the installation must be submitted by the customer to FPL within 120 days from the date of reservation approval. The 120-day completion requirement may be waived on a case-by-case basis at the sole discretion of FPL.

The "funding year" begins January 1st of each year of the pilot. Each funding year's dollars will be applied to reservations received from October 1st of the prior year through September 30th of the funding year. If by September 30th additional funds remain, FPL may, if practical and at its sole discretion, attempt to apply these monies to applicants approved on or after October 1st of the current year. Otherwise rebates for reservations after September 30th will be paid during the next funding year. Applications in a given funding year will only be accepted until all program rebate funds have been committed. In the final funding year of the pilot, customers must complete the installation and submit all required documentation by November 1st in order to receive a rebate.

Reporting Requirements

All program charges such as payroll & benefits, material and supplies, outside services, advertising, vehicles, other and rebates costs shall be reported as part of the Energy Conservation Cost Recovery True-Up and Projection filings.

FPL will evaluate the energy and demand impacts through the use of engineering modeling analyses. This modeling will be calibrated with onsite metering research in a manner that most cost-effectively meets the overall impact evaluation objectives. For a statistically valid sample, FPL will analyze individual hourly energy and demand impacts, engineering and system design variations and their impact on energy and demand; analyze the billing impacts to customers while analyzing the data based on system size and configurations; and plan to meter the actual energy saved by the installation. FPL will monitor the installed costs over the life of the pilot program.



Residential Solar Water Heating Pilot

Program Standards

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Program Objectives

Description of purpose of program

The purpose of the Residential Solar Water Heating Pilot Program is to reduce energy consumption and the growth of coincident peak demand by encouraging customers to install solar water heating systems in residential dwellings.

Measures included in program

The measure included in this program is a solar water heating system, consisting of solar thermal collectors, pumps, mounting hardware, and a water retention tank.

Output to the customers

Customers will receive a rebate towards the purchase of a qualifying solar water heating system, technical assistance from FPL and reduced energy consumption.

Customer Requirements

Customer / premise eligibility

This program is available to all existing FPL residential customers with electric or gas water heating.

Eligible rates

All metered residential retail rate schedules are eligible.

Dwelling / building type

All residential dwelling types are eligible for this program.

Age of dwelling / building type

All existing residential dwellings are eligible for this program.

Restriction from re-participation and exceptions

Each premise is eligible for one rebate for the duration of the pilot program.

For the purpose of this standard, a premise is defined as a dwelling under the control of a single customer where electric utility service terminates. Separate buildings and adjoining buildings in a group of buildings, which have separate FPL electric service, and contain separate dwellings, are separate premises.

Other customer requirements

Customers must submit an application to FPL and receive a reservation confirmation prior to the installation of a solar water heating system. FPL's approval of this application is not a guarantee of a rebate payment. The payment

of a rebate will be dependent upon final verification by FPL that all program requirements have been completed to the satisfaction of FPL.

Contractor Requirements

Licensing requirements

The contractor selected by the customer must meet any and all applicable legal licensing requirements of the State of Florida and local municipalities for the work being performed.

Eligible Equipment Requirements

Definition of system

The solar water heating system consists of solar thermal collectors, pumps, mounting hardware and a water retention tank.

Accreditation of ratings

All systems must be approved and certified by the Florida Solar Energy Center (FSEC) and have an FSEC system certification number.

Minimum efficiency

Not applicable

Minimum or maximum size of eligible equipment

Not applicable

Additional equipment requirements

This program is for domestic water heating only. Solar pool heaters do not qualify. All products installed must be new, not refurbished nor previously installed.

Installation Requirements

Specific installation requirements

Solar thermal collectors must be mounted flat or tilted to a south, east or west orientation. All installations must comply with any and all local, state and federal statutes, codes, ordinances, and accepted engineering practices.

Installation completed by contractor or customer

All systems must be installed by a licensed contractor. Self-installation by a customer who is not a licensed contractor is not permitted.

Pre-approval / pre-verification

System installation must not begin until FPL approval of the reservation is confirmed with receipt of a current reservation number. FPL reserves the right to conduct a pre-installation verification of the proposed installation site.

FPL will endeavor to notify customers of the status of their application for a rebate reservation within 3 business days from the date that it is received by FPL.

Fees or charges

There are no fees or charges for this program.

Timing to correct installation deficiencies

The customer will have 30 calendar days from the date of formal notification of deficiencies by FPL to make any corrections. Extensions may be granted on a case-by-case basis at FPL's sole discretion.

Other installation requirements

Within 90 days of the date of FPL's reservation approval, the customer must have: a completed system installation, an approved final inspection by the Authority Having Jurisdiction, and all FPL required documents submitted to FPL. The 90-day completion requirement may be extended on a case-by-case basis at FPL's sole discretion. The thermostat on the roof must be set for freeze protection and set to protect against injecting overnight cold water into the tank.

FPL installation verification

FPL reserves the right to verify each installation and the installations must be accessible for such verification. FPL will be the final judge of whether the program requirements have been met. Note that any verification activities by FPL personnel shall not be construed as any representation, assurance, guarantee or warranty by FPL of the safety, durability, suitability, quality, or reliability of the system.

Rebate Processing**Rebate schedule**

A rebate of \$1,000 per premise will be paid towards the cost of purchasing a solar water heating system.

Rebate payment method

The customer is required to have a valid FPL reservation number for each eligible premise prior to the installation. The FPL Rebate Certificate and all paperwork must be completed in the name of the FPL customer of record. The customer will be paid upon completion of the installation and final verification, if applicable.

Issuance of FPL Rebate Certificate

The program will be administered by FPL through an application and reservation process. Reservations will be awarded to customers on a first come-first serve basis. Reservations will be limited to the funds as initially allocated, or as adjusted from time to time, to the program for each year.

The required documentation to complete an installation and request payment includes, but is not limited to:

- The FPL Rebate Certificate with customer signature;
- A signed purchase agreement contract;
- Digital photos of the installation and collector nameplate(s);
- A copy of the contractor's invoice to the customer; and
- A copy of the appropriate final passed permits; the date of issuance of which must be after the rebate reservation date.

All information and required documentation associated with the installation must be submitted by the customer to FPL within 90 days from the date of reservation approval. The 90-day completion requirement may be waived on a case-by-case basis at the sole discretion of FPL.

The "funding year" begins January 1st of each year of the pilot. Each funding year's dollars will be applied to reservations received from October 1st of the prior year through September 30th of the funding year. If on September 30th additional funds remain, FPL may, if practical and at its sole discretion, attempt to apply these monies to applicants approved on or after October 1st of the current year. Otherwise rebates for reservations after September 30th will be paid during the next funding year. Applications in a given funding year will only be accepted until all program rebate funds have been committed. In the final funding year of the pilot, customers must complete the installation and submit all required documentation by November 1st in order to receive a rebate.

Reporting Requirements

All program charges such as payroll & benefits, material and supplies, outside services, advertising, vehicles, other and rebates costs shall be reported as part of the Energy Conservation Cost Recovery True-Up and Projection filings.

FPL will evaluate the energy and demand impacts through the use of engineering modeling analyses. This modeling will be calibrated with onsite metering research in a manner that most cost-effectively meets the overall impact evaluation objectives. For a statistically valid sample, FPL will analyze individual hourly energy and demand impacts, engineering and system design variations and their impact on energy and demand; analyze the billing impacts to customers while analyzing the data based on system size and configurations; and plan to meter the actual energy saved by the installation. FPL will monitor the installed costs over the life of the pilot program.



Residential Solar Water Heating Pilot

Program Standards

DOCUMENT NUMBER - DATE

03314 MAY 12 =

FPSC-COMMISSION CLERK

**Florida Power & Light Company
Residential Solar Water Heating Pilot**

Program Standards

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Program Objectives

Description of purpose of program

The purpose of the Residential Solar Water Heating Pilot Program is to reduce energy consumption and the growth of coincident peak demand by encouraging customers to install solar water heating systems in residential dwellings.

Measures included in program

The measure included in this program is a solar water heating system, consisting of solar thermal collectors, pumps, mounting hardware, and a water retention tank.

Output to the customers

Customers will receive a rebate towards the purchase of a qualifying solar water heating system, technical assistance from FPL and reduced energy consumption.

Customer Requirements

Customer / premise eligibility

This program is available to all existing FPL residential customers with electric or gas water heating.

Eligible rates

All metered residential retail rate schedules are eligible.

Dwelling / building type

All residential dwelling types are eligible for this program.

Age of dwelling / building type

All existing residential dwellings are eligible for this program.

Restriction from re-participation and exceptions

Each premise is eligible for one rebate for the duration of the pilot program.

For the purpose of this standard, a premise is defined as a dwelling under the control of a single customer where electric utility service terminates. Separate buildings and adjoining buildings in a group of buildings, which have separate FPL electric service, and contain separate dwellings, are separate premises.

Other customer requirements

Customers must submit an application to FPL and receive a reservation confirmation prior to the installation of a solar water heating system. FPL's approval of this application is not a guarantee of a rebate payment. The payment

of a rebate will be dependent upon final verification by FPL that all program requirements have been completed to the satisfaction of FPL.

Contractor Requirements

Licensing requirements

The contractor selected by the customer must meet any and all applicable legal licensing requirements of the State of Florida and local municipalities for the work being performed.

Eligible Equipment Requirements

Definition of system

The solar water heating system consists of solar thermal collectors, pumps, mounting hardware and a water retention tank.

Accreditation of ratings

All systems must be approved and certified by the Florida Solar Energy Center (FSEC) and have an FSEC system certification number.

Minimum efficiency

Not applicable

Minimum or maximum size of eligible equipment

Not applicable

Additional equipment requirements

This program is for domestic water heating only. Solar pool heaters do not qualify. All products installed must be new, not refurbished nor previously installed.

Installation Requirements

Specific installation requirements

Solar thermal collectors must be mounted flat or tilted to a south, east or west orientation. All installations must comply with any and all local, state and federal statutes, codes, ordinances, and accepted engineering practices.

Installation completed by contractor or customer

All systems must be installed by a licensed contractor. Self-installation by a customer who is not a licensed contractor is not permitted.

Pre-approval / pre-verification

System installation must not begin until FPL approval of the reservation is confirmed with receipt of a current reservation number. FPL reserves the right to conduct a pre-installation verification of the proposed installation site.

FPL will endeavor to notify customers of the status of their application for a rebate reservation within 3 business days from the date that it is received by FPL.

Fees or charges

There are no fees or charges for this program.

Timing to correct installation deficiencies

The customer will have 30 calendar days from the date of formal notification of deficiencies by FPL to make any corrections. Extensions may be granted on a case-by-case basis at FPL's sole discretion.

Other installation requirements

Within 90 days of the date of FPL's reservation approval, the customer must have: a completed system installation, an approved final inspection by the Authority Having Jurisdiction, and all FPL required documents submitted to FPL. The 90-day completion requirement may be extended on a case-by-case basis at FPL's sole discretion. The thermostat on the roof must be set for freeze protection and set to protect against injecting overnight cold water into the tank.

FPL installation verification

FPL reserves the right to verify each installation and the installations must be accessible for such verification. FPL will be the final judge of whether the program requirements have been met. Note that any verification activities by FPL personnel shall not be construed as any representation, assurance, guarantee or warranty by FPL of the safety, durability, suitability, quality, or reliability of the system.

Rebate Processing**Rebate schedule**

A rebate of \$1,000 per premise will be paid towards the cost of purchasing a solar water heating system.

Rebate payment method

The customer is required to have a valid FPL reservation number for each eligible premise prior to the installation. The FPL Rebate Certificate and all paperwork must be completed in the name of the FPL customer of record. The customer will be paid upon completion of the installation and final verification, if applicable.

Issuance of FPL Rebate Certificate

The program will be administered by FPL through an application and reservation process. Reservations will be awarded to customers on a first come-first serve basis. Reservations will be limited to the funds as initially allocated, or as adjusted from time to time, to the program for each year.

The required documentation to complete an installation and request payment includes, but is not limited to:

- The FPL Rebate Certificate with ~~both customer's and contractor's~~ signatures;
- A signed purchase agreement contract;
- Digital photos of the installation and collector nameplate(s);
- A copy of the contractor's invoice to the customer; and
- A copy of the appropriate final passed permits; the date of issuance of which must be after the rebate reservation date.

All information and required documentation associated with the installation must be submitted by the customer to FPL within 90 days from the date of reservation approval. The 90-day completion requirement may be waived on a case-by-case basis at the sole discretion of FPL.

The "funding year" begins January 1st of each year of the pilot. Each funding year's dollars will be applied to reservations received from October 1st of the prior year through September 30th of the funding year. If on September 30th additional funds remain, FPL may, if practical and at its sole discretion, attempt to apply these monies to applicants approved on or after October 1st of the current year. Otherwise rebates for reservations after September 30th will be paid during the next funding year. Applications in a given funding year will only be accepted until all program rebate funds have been committed. In the final funding year of the pilot, customers must complete the installation and submit all required documentation by November 1st in order to receive a rebate.

Reporting Requirements

All program charges such as payroll & benefits, material and supplies, outside services, advertising, vehicles, other and rebates costs shall be reported as part of the Energy Conservation Cost Recovery True-Up and Projection filings.

FPL will evaluate the energy and demand impacts through the use of engineering modeling analyses. This modeling will be calibrated with onsite metering research in a manner that most cost-effectively meets the overall impact evaluation objectives. For a statistically valid sample, FPL will analyze individual hourly energy and demand impacts, engineering and system design variations and their impact on energy and demand; analyze the billing impacts to customers while analyzing the data based on system size and configurations; and plan to meter the actual energy saved by the installation. FPL will monitor the installed costs over the life of the pilot program.



Residential Solar Water Heating (Low Income New Construction) Pilot

Program Standards

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**Florida Power & Light
Residential Solar Water Heating (Low Income New Construction) Pilot
Program Standards**

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Program Objectives

Description of purpose of program

The Residential Solar Water Heating (Low Income New Construction) Pilot Program is designed to reduce energy consumption and the growth of coincident peak demand, increase the efficiency of low income buildings, and demonstrate the practical application of solar water heating in residential new construction, by providing solar water heating systems to selected low income builder organizations (Low Income Builder) throughout the FPL service territory. A Low Income Builder is a non-profit private entity specializing in the construction and rehabilitation of housing for low income customers.

Measures included in program

The measure included in this program is a solar water heating system, consisting of solar thermal collectors, pumps, mounting hardware, and a water retention tank.

Output to the customers

FPL, through Low Income Builders, will provide FPL low income customers with solar water heating systems at no cost and reduced energy consumption.

Customer Requirements

Customer / premise eligibility

This program is available to new construction residential dwellings or existing dwellings that are being refurbished specifically for low income customers that are identified and selected by Low Income Builders throughout FPL's service territory.

Eligible rates

All metered residential retail rate schedules are eligible.

Dwelling / building type

Single family detached and multi-family residential dwelling types are eligible for this program.

Age of dwelling / building type

New or existing dwellings types are eligible for this program.

Restriction from re-participation and exceptions

Each premise is eligible for one rebate for the duration of the pilot program.

For the purpose of this standard, a premise is defined as a dwelling under the control of a single customer where electric utility service terminates. Separate buildings and adjoining buildings in a group of buildings, which have separate FPL electric service, and contain separate dwellings, are separate premises.

Other customer requirements

The Low Income Builders will determine the eligibility of specific low income customers and specific dwellings. The Low Income Builder will be responsible for selecting a licensed contractor to install the system. The Low Income Builder will initially own the solar water heating system. Ownership of the system will be conveyed to the low income customer when they take ownership of the property.

Low Income Builders must submit an application to FPL and receive a reservation confirmation prior to the installation of the solar water heating system. FPL's approval of this application is not a guarantee of a rebate payment. The payment of a rebate will be dependent upon final verification by FPL that all program requirements have been completed to the satisfaction of FPL.

Contractor Requirements

Licensing requirements

The contractor selected by the Low Income Builder must meet any and all applicable legal licensing requirements of the State of Florida and local municipalities for the work being performed.

Eligible Equipment Requirements

Definition of system

The solar water heating system consists of solar thermal collectors, pumps, mounting hardware, and a water retention tank.

Accreditation of ratings

All systems must be approved and certified by the Florida Solar Energy Center (FSEC) and have an FSEC system certification number.

Minimum efficiency

Not applicable

Minimum or maximum size of eligible equipment

Not applicable

Additional equipment requirements

This program is for domestic water heating only. Solar pool heaters do not qualify. All products installed must be new, not refurbished, or previously installed.

Installation Requirements**Specific installation requirements**

Solar thermal collectors must be mounted flat or tilted to a south, east or west orientation. All installations must comply with any and all local, state and federal statutes, codes, ordinances, and accepted engineering practices.

Installation completed by a licensed contractor

All systems must be installed by a licensed contractor.

Pre-approval / pre-verification

System installation must not begin until FPL approval of the reservation is confirmed with receipt of a current reservation number. FPL reserves the right to conduct a pre-installation verification of the proposed installation site.

FPL will endeavor to notify customers of the status of their application for a rebate reservation within 3 business days from the date that it is received by FPL.

Fees or charges

There are no fees or charges for this program.

Timing to correct deficiency in installations

The Low Income Builder will have 30 calendar days from the date of formal notification of deficiencies by FPL to make any corrections. Extensions may be granted on a case-by-case basis at FPL's sole discretion.

Other installation requirements

Within 12 months of the date of FPL's reservation approval, the Low Income Builder must have: a completed system installation, an approved final inspection by the Authority Having Jurisdiction, and all FPL required documents submitted to FPL. The 12-month completion requirement may be extended on a case-by-case basis at FPL's sole discretion. The thermostat on the roof must be set for freeze protection and set to protect against injecting overnight cold water into the tank.

FPL installation verification

FPL reserves the right to verify each installation and the installations must be accessible for such verification. FPL will be the final judge of whether the program requirements have been met. Note that any verification activities by FPL personnel shall not be construed as any representation, assurance, guarantee or warranty by FPL of the safety, durability, suitability, quality, or reliability of the system.

Rebate Processing**Rebate schedule**

FPL will provide the full installation cost per premise of a solar water heating system to the Low Income Builder.

Rebate payment method

The Low Income Builder is required to have a valid FPL reservation number for each eligible premise prior to the installation. The Low Income Builder will be paid upon completion of the installation and final verification, if applicable.

Issuance of FPL Rebate Certificate

The program will be administered by FPL through a reservation process. Reservations will be awarded to Low Income Builders on a first come-first serve basis. Reservations will be limited to the funds as initially allocated, or as may be adjusted from time to time, to the program for each year.

The required documentation for completed installations includes, but is not limited to:

- The FPL Rebate Certificate with the Low Income Builder's signature;
- Digital photos of the installation and collector nameplate(s);
- A copy of the solar water heating system invoice to the Low Income Builder;
- A copy of the appropriate final passed permits; the date of issuance of which must be after the rebate reservation date; and

All information and required documentation associated with the installation must be submitted by the Low Income Builder to FPL within 12 months from the date of reservation approval. The 12 month completion requirement may be waived on a case-by-case basis at the sole discretion of FPL.

The "funding year" begins January 1st of each year of the pilot. The Low Income Builder must complete construction and submit the required documentation to FPL within 12 months from the reservation approved date. Extensions may be granted, on a case-by-case basis, at FPL's sole discretion

Reservation applications for a funding year will only be accepted as long as funds are available. Once program funding has been depleted, no additional reservation applications will be accepted.

In the final pilot funding year, the Low Income Builder must submit all information and required documentation associated with the installation by November 1st regardless of the reservation approval date.

Reporting Requirements

All program charges such as payroll & benefits, material and supplies, outside services, advertising, vehicles, other and rebate costs shall be reported as part of the Energy Conservation Cost Recovery True-Up and Projection filings.

FPL will evaluate the energy and demand impacts through the use of engineering modeling analyses. This modeling will be calibrated with onsite metering research in a manner that most cost-effectively meets the overall impact evaluation objectives. For a statistically valid sample, FPL will analyze individual hourly energy and demand impacts, engineering and system design variations and their impact on energy and demand; analyze the billing impacts to customers while analyzing the data based on system size and configurations; and plan to meter the actual energy saved by the installation. FPL will monitor the installed costs over the life of the pilot program.



**Residential Solar Water Heating
(Low Income New Construction) Pilot
Program Standards**

DOCUMENT NUMBER - DATE

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**Florida Power & Light
Residential Solar Water Heating (Low Income New Construction) Pilot
Program Standards**

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Program Objectives

Description of purpose of program

The Residential Solar Water Heating (Low Income New Construction) Pilot Program is designed to reduce energy consumption and the growth of coincident peak demand, increase the efficiency of low income buildings, and demonstrate the practical application of solar water heating in residential new construction, by providing solar water heating systems to selected low income builder organizations (Low Income Builder) throughout the FPL service territory. A Low Income Builder is a non-profit private entity specializing in the construction and rehabilitation of housing for low income customers.

Measures included in program

The measure included in this program is a solar water heating system, consisting of solar thermal collectors, pumps, mounting hardware, and a water retention tank.

Output to the customers

FPL, through Low Income Builders, will provide FPL low income customers with solar water heating systems at no cost and reduced energy consumption.

Customer Requirements

Customer / premise eligibility

This program is available to new construction residential dwellings or existing dwellings that are being refurbished specifically for low income customers that are identified and selected by Low Income Builders throughout FPL's service territory.

Eligible rates

All metered residential retail rate schedules are eligible.

Dwelling / building type

Single family detached and multi-family residential dwelling types are eligible for this program.

Age of dwelling / building type

New or existing dwellings types are eligible for this program.

Restriction from re-participation and exceptions

Each premise is eligible for one rebate for the duration of the pilot program.

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Contractor Requirements**Licensing requirements**

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Eligible Equipment Requirements**Definition of system**

The solar water heating system consists of solar thermal collectors, pumps, mounting hardware, and a water retention tank.

Accreditation of ratings

All systems must be approved and certified by the Florida Solar Energy Center (FSEC) and have an FSEC system certification number.

Minimum efficiency

Not applicable

Minimum or maximum size of eligible equipment

Not applicable

Additional equipment requirements

This program is for domestic water heating only. Solar pool heaters do not qualify. All products installed must be new, not refurbished, or previously installed.

Installation Requirements**Specific installation requirements**

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Fees or charges

There are no fees or charges for this program.

Timing to correct deficiency in installations

The Low Income Builder will have 30 calendar days from the date of formal notification of deficiencies by FPL to make any corrections. Extensions may be granted on a case-by-case basis at FPL's sole discretion.

Other installation requirements

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Rebate Processing**Rebate schedule**

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Rebate payment method

The Low Income Builder is required to have a valid FPL reservation number for each eligible premise prior to the installation. The Low Income Builder will be paid upon completion of the installation and final verification, if applicable.

Issuance of FPL Rebate Certificate

The program will be administered by FPL through a reservation process. Reservations will be awarded to Low Income Builders on a first come-first serve basis. Reservations will be limited to the funds as initially allocated, or as may be adjusted from time to time, to the program for each year.

The required documentation for completed installations includes, but is not limited to:

- The FPL Rebate Certificate with the Low Income Builder's signature;
- Digital photos of the installation and collector nameplate(s).
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All information and required documentation associated with the installation must be submitted by the Low Income Builder to FPL within 12 months ~~days~~ from the date of reservation approval. The 12 month completion requirement may be waived on a case-by-case basis at the sole discretion of FPL.

The "funding year" begins January 1st of each year of the pilot. The Low Income Builder must complete construction and submit the required documentation to FPL within 12 months from the reservation approved date. Extensions may be granted, on a case-by-case basis, at FPL's sole discretion

Reservation applications for a funding year will only be accepted as long as funds are available. Once program funding has been depleted, no additional reservation applications will be accepted.

In the final pilot funding year, the Low Income Builder must submit all information and required documentation associated with the installation by November 1st regardless of the reservation approval date.

Reporting Requirements

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