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DIANNE TRIPLETT
Associate General Counsel – Florida

October 29, 2010

Ann Cole, Commission Clerk
Office of Commission Clerk
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

Dear Ms. Cole:

In support of Docket No. 100160-EG, enclosed for your review and administrative approval are the original and 5 copies of Progress Energy Florida's DSM Program Participation Standards.

These Program Participation Standards are being submitted in support of the Company's pilot solar programs approved in Order PSC-10-0605-PAA-EG issued October 4, 2010 and Consummated in Order PSC-10-0649-CO-EG issued October 28, 2010. As requested in Staff's letter October 6, 2010 PEF is filing the enclosed standards which clearly state the requirements for participation in the solar pilot programs, customer eligibility requirements, details on how rebates or incentives will be processed, technical specifications on equipment eligibility, and set forth necessary reporting requirements. PEF requests administrative approval of these Standards upon completion of Staff's review.

Please note the attached Program Participation Standards contain a correction of a scrivener's error within the Solar Water Heating for Low Income Residential Customers Pilot on Page 3 Section 1.: Program Overview. "The incentive for this program is the total cost of the solar thermal system plus the associated installation cost. The program will be limited to a targeted annual incentive cap of \$114,000." The \$114,000 amount corrects the scrivener's error of \$90,000 contained within our DSM Plan submitted on March 30, 2010 on page 204 within the "Policies and Procedures" section. This correction does not impact the overall Demand-Side Renewable Portfolio approved on October 4,2010.

Sincerely,

Dianne Triplett
Associate General Counsel

DT/sc
Enclosures

- COM _____
- APA _____
- ECR _____
- GCL 1
- RAD 4
- SSC _____
- ADM _____
- OPC _____
- CLK _____

Progress Energy Service Company, LLC
P. O. Box 14042
St. Petersburg, FL 33733

DOCUMENT NUMBER 021

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**PROGRAM PARTICIPATION STANDARDS
DEMAND-SIDE RENEWABLE PORTFOLIO
2010 - 2019**

**PROGRESS ENERGY FLORIDA, INC.
PROGRAM PARTICIPATION STANDARDS
SOLAR WATER HEATING FOR LOW INCOME
RESIDENTIAL CUSTOMERS PILOT**

PROGRESS ENERGY FLORIDA, INC.
PROGRAM PARTICIPATION STANDARDS
SOLAR WATER HEATING FOR LOW INCOME RESIDENTIAL
CUSTOMERS PILOT

1. PROGRAM OVERVIEW

The Solar Water Heating for Low-income Residential Customers Pilot is designed to assist low-income households with energy costs by incorporating a solar thermal water heating system to their residence while it is under construction. Progress Energy Florida (PEF) will collaborate with Florida approved non-profit builders/agencies to provide low-income households with a residential solar thermal water heater. The non-profit builder and/or residential participants will own the solar thermal system provided by PEF and enjoy all energy saving benefits.

The incentive for this program is the total cost of the solar thermal system plus the associated installation cost. The program will be limited to a targeted annual incentive cap of \$114,000.

Goals of the program are:

1. Provide low-income residential customers with a solar thermal water heating system on their newly constructed home.
2. Increase PEF's renewable energy portfolio
3. Identify and educate non-profit builders and low-income customers about energy saving opportunities to upgrade home energy efficiency.
4. Increase low-income households' participation in PEF's DSM programs.

2. ELIGIBILITY REQUIREMENTS

1. The premise must be in PEF's service area and be a newly constructed residential metered customer
2. Do-it-yourself installations are not eligible for program participation.

3. All installations must be accessible for verification by PEF and/or its contractor(s) to ensure compliance with program standards.
4. Florida approved non-profit builders/agencies must submit an application and receive approval for the program incentives prior to installation.
5. PEF will work with multiple non-profit builders/agencies throughout its service territory to distribute solar thermal water heating systems. All non-profit builders/agencies shall complete a memorandum of understanding (MOU) with PEF stating the installation and ownership terms as well as the number of systems that they are eligible to receive in a given year.
6. Low-income and program eligibility will be based upon the requirements of the non-profit builders/agencies participating in the program.
7. The home must support a south facing solar installation with minimal shading obstructions.
8. The customer must transfer to PEF all renewable energy credits (REC's) and other environmental attributes associated with the solar thermal system receiving rebates from PEF. Customers must agree to the following provision: "Because Progress Energy is providing certain rebates for the equipment and/or installation, Customer acknowledges and agrees that Florida Administrative Code Section 25-6.065 does not apply to this Agreement with respect to the ownership of any environmental attributes."

3. CONTRACTOR REQUIREMENTS

The PEF contractor / low-income builder must comply with all local, state and federal rules and codes. The selected PEF contractor(s) / and or non-profit builder is/are responsible for all work performed and must meet and/or comply with the following requirements:

1. Contractor and/or subcontractor must have appropriate license(s) and meet current insurance requirements for work to be performed. PEF reserves the right to increase insurance requirements above state/federal minimum requirements at its discretion.
2. Contractor and/or subcontractor must comply with all federal, state, and local codes and regulations.
3. Contractors shall indemnify and hold harmless PEF from any and all losses, liabilities, injuries, damages, claims or costs whatsoever caused by items furnished or services rendered as a result of this Pilot Program.
4. PEF reserves the right to request background checks and drug screenings of contractors and/or subcontractors participating in this program.

5. PEF reserves the right to develop and post a list of contractors participating in this program.
6. Use of the PEF name or logo and any Pilot Program marks by contractors and/or subcontractors must be authorized by PEF in writing prior to use.
7. The contractor is responsible for the associated work to be performed, the supervision of their employees and/or subcontractors, and the use of the contractor's own equipment (or rental equipment) to meet the work specifications.
8. All contractors must comply with PEF contractor procedures as well as the manufacturers' specifications specific to this Pilot Program. Failure to do so may result in termination of participation in any or all PEF programs.
9. Contractor and/or subcontractor shall notify PEF of any incident occurring during installation of a pilot program or any follow-up procedure immediately at the time of incident.
10. The contractor and/or subcontractor must correct any deficiency found in the installation or product when advised by a PEF representative and notify the PEF representative of compliance within 30 days of the notification from the PEF representative.
11. Contractor and/or subcontractor doing business with PEF may be subject to additional requirements.

4. INCENTIVES

The incentive payment structure is as follows:

Program Component	Incentive
Solar Water Heating for Low Income Residential Customers Pilot	The solar thermal system will be provided at no cost to the non-profit builder or the residential participant

4.1 INCENTIVE PROCESSING

1. The contractor/builder will submit a completed application and all invoices to PEF within a 45 day period.
2. After a system has passed inspection, or if the system is not selected for inspection, completed invoices will be processed for payment. If, during this inspection PEF determines that the solar installation is unacceptable, a list of deficiencies will be

- provided to the contractor/builder. The contractor/builder will be responsible for correcting these deficiencies before re-inspection and processing of the invoice.
3. Incentives are paid to the contractor/builder.

5. REPORTING REQUIREMENTS

The reporting requirements for this program will follow Rule 25-17.0021(5), Florida Administrative Code.

6. EQUIPMENT/MATERIAL AND INSTALLATION SPECIFICATIONS

1. The solar energy system must comply with all local, state, and federal rules and codes.
2. Solar Domestic Water Heating systems must be certified and approved by the Florida Solar Energy Center (FSEC) and have an FSEC approval number.
3. The system shall be designed to meet a minimum of 50% of the water heating needs.
4. Solar pool heating or photovoltaic systems are not eligible for this program.

**PROGRESS ENERGY FLORIDA, INC.
PROGRAM PARTICIPATION STANDARDS
SOLAR WATER HEATING WITH ENERGY
MANAGEMENT PROGRAM**

**PROGRESS ENERGY FLORIDA, INC.
PROGRAM PARTICIPATION STANDARDS
SOLAR WATER HEATING WITH ENERGY MANAGEMENT
PROGRAM**

1. PROGRAM OVERVIEW

The Solar Water Heating with Residential Energy Management Program is designed to reduce system peak demand and increase renewable energy generation on the Progress Energy Florida (PEF) grid. The program will be limited to a targeted annual incentive cap of \$1,237,500 for the solar water heating component of this program.

The program seeks to meet the following overall goals:

1. Obtain energy and demand reductions that are significant and measurable.
2. Enhance customers'/contractors' awareness of the capabilities of renewable energy technologies.
3. Educate customers/contractors about additional opportunities to generate/use renewable energy.
4. Develop and offer renewable energy measures to the marketplace.
5. Increase participation in the PEF's Residential Energy Management program.

2. ELIGIBILITY REQUIREMENTS

1. The premise must be in PEF's service area and be a residentially metered customer.
2. Do-it-yourself installations are not eligible for program participation.
3. All installations must be accessible for verification by PEF and/or its contractor(s) to ensure compliance with program standards.
4. The PEF account must have whole house electric cooling, heating, and water heating participating in PEF's Energy Management program (interruption schedules B or S, and C) and agree to the following:
 - a. Receive 25% of associated Energy Management monthly credits for the aforementioned devices for the lifetime of their PEF account.
 - b. Program participation, with all required devices connected to Energy Management, establishes a minimum 3 year commitment. Participants opting out of the program or

closing the account associated with the program will be required to reimburse a portion of the \$550 initial rebate per the following reimbursement formula:

Energy Management Early Withdrawal Reimbursement Formula
$(\$15.28) \times (\text{months of participation}) - \$550 = \text{Required Customer Reimbursement}$

Examples:
$(\$15.28) \times (8 \text{ months of participation}) - \$550 = \$122.24 - \$550 = \$ (427.76)$
$(\$15.28) \times (20 \text{ months of participation}) - \$550 = \$305.60 - \$550 = \$ (244.40)$
$(\$15.28) \times (36 \text{ months of participation and beyond}) - \$550 = \$550 - \$550 = \$ 0.00$

5. The Solar Water Heater must be new and installed after effective program start date.
6. The PEF premise shall not have previously received a Solar Water Heater with Energy Management program incentive.
7. The customer must transfer to PEF all renewable energy credits (REC's) and other environmental attributes associated with the solar thermal system receiving rebates from PEF. Customers must agree to the following provision: "Because Progress Energy is providing certain rebates for the equipment and/or installation, Customer acknowledges and agrees that Florida Administrative Code Section 25-6.065 does not apply to this Agreement with respect to the ownership of any environmental attributes."
8. PEF must receive the completed incentive application within 12 months of the solar water heating system installation.
9. Customers on PEF's Residential Energy Management program interruption schedule A & D are not eligible to participate in the Solar Water Heating with Energy Management program.
10. Applicant must provide PEF proof showing the installation passed the local building inspection, if applicable.

2.1 EQUIPMENT AND INSTALLATION SPECIFICATIONS

1. The solar energy system must comply with all local, state, and federal rules and codes.
2. Solar Domestic Water Heating systems must be certified and approved by the Florida Solar Energy Center (FSEC) and have an FSEC approval number.

3. The system shall be designed to meet a minimum of 50% of the water heating needs.
4. Solar pool heating or photovoltaic systems are not eligible for this program.

3. CONTRACTOR REQUIREMENTS

1. The contractor and/or subcontractor must possess appropriate license(s) and comply with all appropriate federal, state, and local building and safety codes for all work performed.
2. The contractor and/or subcontractor shall indemnify and hold harmless PEF from any and all losses, liabilities, injuries, damages, claims or costs whatsoever caused by items furnished or services rendered.
3. PEF reserves the right to request background checks and drug screenings of contractors and/or subcontractors participating in the program.
4. PEF reserves the right to develop and post a list of the contractors participating in this program.
5. The contractor is responsible for the associated work to be performed, the supervision of their employees and/or subcontractors, and the use of contractors' own equipment (or rental equipment) to meet the work specifications.
6. The contractor shall provide customer with instruction manual and training on the solar system.
7. The contractor shall provide customers with explicit warranty information including the following:
 - a. Length of warranty
 - b. Cost of material during warranty period
 - c. Cost of labor during warranty period
8. The solar system must be installed in accordance with the manufacturers' recommendations and specifications.
9. The contractor must correct any deficiency found in the installation or product(s) associated with the program, when advised by a PEF representative, and notify the PEF representative of compliance within 30 days of notification by PEF representative.
10. The contractor and/or subcontractor shall assist customers in completing application for incentives.
11. The contractor and/or subcontractor must follow all PEF and program marketing guidelines and requirements.
12. All contractors must comply with PEF contractor procedures. Failure to do so may result in termination of participation in any or all PEF programs.

4. INCENTIVES

The incentive structure is as follows:

Program Component	Incentive
The Solar Water Heating with Energy Management program	\$550 per residence toward the purchase of a new solar thermal water heater.
	25% of associated Energy Management monthly credits for required devices (whole house electric cooling, heating, and water heating).
	100% Energy Management monthly pool pump credit, if applicable.

4.1 INCENTIVE PROCESSING

1. Complete and send program form to specified PEF address. The form will record information such as:
 - Customer information - name, premise information, occupants living at the premise, account number, and telephone number.
 - Contractor information - name, license number, address, and telephone number.
 - System information - manufacturer, model number, installation date, permit number and the Florida Solar Energy Center (FSEC) certification number.
 - A copy of the contractor invoice.
2. Upon receipt of the completed form, PEF will select systems for verification.
3. If the system passes verification, or is not selected for verification, the form will be processed for payment.
4. All incentive payments are paid to the customer.

5. REPORTING REQUIREMENTS

The reporting requirements for this program will follow Rule 25-17.0021(5), Florida Administrative Code.

**PROGRESS ENERGY FLORIDA, INC.
PROGRAM PARTICIPATION STANDARDS
RESIDENTIAL SOLAR PHOTOVOLTAIC PILOT**

**PROGRESS ENERGY FLORIDA, INC.
PROGRAM PARTICIPATION STANDARDS
RESIDENTIAL SOLAR PHOTOVOLTAIC PILOT**

1. PROGRAM OVERVIEW

The Residential Solar Photovoltaic (PV) Pilot is designed to reduce the initial investment required to install a qualified renewable solar energy system in homes in PEF's territory. The program will be limited to a targeted annual incentive cap of \$1,000,000.

The program seeks to meet the following overall goals:

1. Provide residential customers with a higher return on investment in PV systems.
2. Increase renewable energy generation within PEF's service territory.
3. Increase participation in existing residential DSM measures.

2. ELIGIBILITY REQUIREMENTS

1. The premise must be in PEF's service area and be a residentially metered customer.
2. Do-it-yourself installations are not eligible for program participation.
3. All installations must be accessible for verification by PEF and/or its contractor(s) to ensure compliance with program standards.
4. The customer must make application to PEF for participation in this program. PEF must approve the application before the incentive is guaranteed. (See Section 4 for application process).
5. The PV system must be new and installed after effective program start date.
6. The PEF premise shall not have previously received a Residential Solar Photovoltaic program incentive.
7. The customer must transfer to PEF all renewable energy credits (REC's) and other environmental attributes associated with the solar PV system receiving rebates from PEF. Customer must agree to the following provision: "Because Progress Energy is providing certain rebates for the equipment and/or installation, Customer acknowledges and agrees

that Florida Administrative Code Section 25-6.065 does not apply to this Agreement with respect to the ownership of any environmental attributes.”

8. The applicant must be a customer of record within PEF’s territory.
9. The applicant must first implement, or have implemented within the last two years, at least one energy efficiency measure, which may include Home Energy Check.
10. The PV system must be rated between 2 kW and 10 kW (dc power rating) to qualify for this program. No rebates apply for residential systems rated less than 2 kW or more than 10 kW.
11. The residential PV system must be directly interconnected with the PEF power system.
12. Applicant must provide PEF proof showing the installation passed the local building inspection, if applicable.

2.1 EQUIPMENT AND INSTALLATION SPECIFICATIONS

1. The solar PV system must comply with all local, state, and federal rules and codes.
2. Solar PV systems must be certified and approved by the Florida Solar Energy Center.
3. The PV system shall meet all applicable IEEE, UL, IEC, and NFPA Standards related to interconnection, distributed resources and Photovoltaic Systems that are in effect as of the date of installation, including the following standards or their successors:
 - a. IEEE 1547, “IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems”.
 - b. UL Standard 1741, “Standard for Safety for Static Inverters and Charge Controllers for use in Distributed Resources”.
 - c. UL Standards 1703, “Standard for Safety: Flat Plate Photovoltaic Modules and Panels”.
 - d. IEEE Standard 1262-1995, “Recommended Practice for Qualification of Photovoltaic Modules” or IEC Standard 61646.
 - e. IEEE Standard 929 “Recommended Practice for Utility Interface of Photovoltaic (PV) Systems”.
 - f. NFPA 70, “The National Electrical Code”.
4. The residential PV system must be directly interconnected with the PEF power system and meet all of the requirements of the following applicable interconnection Tiers as stated in PEF’s Interconnection Procedures (or succeeding versions):

- a. Tier 1 (=10 kW) No application fee, disconnect switch or insurance requirement; simply complete the application and interconnection contract.
- b. Tier 2 (> 10kW and <=100kW) Application fee of \$240, proof of general liability insurance of \$1 million, the installation of an externally accessible, lockable a/c disconnect switch located in close proximity to the meter location, in addition to the completed application and signed contract are required for this level of installation.
- c. Tier 3 (> 100kW and <=2000kW) Application fee of \$750, proof of general liability insurance of \$2 million, the installation of an externally accessible, lockable a/c disconnect device located in close proximity to the meter location in addition to the completed application are required for this level of installation. Given the complexity and variability of systems of this size, there may be other protection equipment required beyond the disconnect switch which will be determined through the interconnection study that would be performed by Progress Energy. Upon receipt of the application fee and initial information on the generation system and location, Progress Energy will perform an analysis to determine interconnection requirements and will notify the customer of the results within 60 days.

3. CONTRACTOR REQUIREMENTS

1. The contractor and/or subcontractor must possess appropriate license(s) and comply with all appropriate federal, state, and local building and safety codes for all work performed.
2. The contractor and/or subcontractor shall indemnify and hold harmless PEF from any and all losses, liabilities, injuries, damages, claims or costs whatsoever caused by items furnished or services rendered.
3. PEF reserves the right to request background checks and drug screenings of contractors and/or subcontractors participating in the program.
4. PEF reserves the right to develop and post a list of the contractors participating in this program.
5. The contractor is responsible for the associated work to be performed, the supervision of their employees and/or subcontractors, and the use of contractors' own equipment (or rental equipment) to meet the work specifications.
6. The contractor shall provide the customer with instruction manual and training on the solar system.
7. The contractor shall provide customers with explicit warranty information including the following:

- a.Length of warranty
 - b.Cost of material during warranty period
 - c.Cost of labor during warranty period
8. The solar system must be installed in accordance with the manufacturers' recommendations and specifications.
 9. The contractor must correct any deficiency found in the installation or product(s) associated with the program, when advised by a PEF representative, and notify the PEF representative of compliance within 30 days of notification by PEF representative.
 10. The contractor and/or subcontractor shall assist customers in completing application for incentives.
 11. The contractor and/or subcontractor must follow all PEF and program marketing guidelines and requirements.
 12. All contractors must comply with PEF contractor procedures. Failure to do so may result in termination of participation in any or all PEF programs.

4. INCENTIVES

The incentive for this program is a maximum payment of \$2.00 per watt (up to \$20,000) of the DC power rating up to a maximum of 10 kW on a new photovoltaic system.

4.1 INCENTIVE APPLICATION

1. Customer must complete and submit an Application for participation under the Program prior to installation of the generating system.
 - a. For an Application to be approved by PEF, the system must be rated by a certified solar contractor to produce a minimum of 1000 kWh/year of ac energy per kW dc rating.
 - b. If System construction or installation occurs before Application acceptance, then PEF may, in its sole and absolute discretion, determine that the Applicant's System is ineligible for the Program. In such event, PEF shall have no obligation to make any Program payment to Applicant.
2. Upon approval, PEF will assign a reservation number to the Application, and notify the Applicant of said reservation number and amount.
3. Within 90 days of the Application acceptance, the Applicant must submit the completed PEF solar incentive form and supporting documents; providing proof of completion, local inspection(s) and readiness for PEF verification.

4. Failure to submit the completed PEF solar incentive form and supporting documents within 90 days shall void the reservation number and amount.
 - a. Funding reservations will be reallocated to the program and if there is additional funding available, the applicant may reapply for the incentive.
 - b. Applicants may apply for an extension. Extensions will be granted on a case by case basis based on a review of the project advancement.
5. Reservations for a year's funding will begin October 1 of the previous year and close September 30 of the funding year.
 - a. The reservation process for incentives will be on a first come first served basis.
 - b. Once the \$1,000,000/year program funding has been allocated, no additional reservations for that year will be accepted.
 - c. Incentives will only be awarded to systems that are specifically reserved for the given year.

4.2 INCENTIVE PROCESSING

1. Complete and send program form to specified PEF address. The form will record information such as:
 - Customer information - name, premise information, occupants living at the premise, account number, and telephone number.
 - Contractor information - name, license number, address, and telephone number.
 - System information - manufacturer, model number, installation date, permit number, and production projections (kWh).
 - A copy of the contractor invoice.
 - PEF Application for participation with valid reservation number.
2. Upon receipt of the completed form, PEF will select systems for verification.
3. If the system passes verification, or is not selected for verification, the form will be processed for payment.
4. All incentive payments are paid to the customer.

5. REPORTING REQUIREMENTS

The reporting requirements for this program will follow Rule 25-17.0021(5), Florida Administrative Code.

**PROGRESS ENERGY FLORIDA, INC.
PROGRAM PARTICIPATION STANDARDS
COMMERCIAL SOLAR PHOTOVOLTAIC PILOT**

**PROGRESS ENERGY FLORIDA, INC.
PROGRAM PARTICIPATION STANDARDS
COMMERCIAL SOLAR PHOTOVOLTAIC PILOT**

1. PROGRAM OVERVIEW

The Commercial Solar Photovoltaic (PV) Pilot of Progress Energy Florida (PEF) is designed to reduce the initial investment required to install a qualified renewable solar energy system. The program will be limited to a targeted annual incentive cap of \$1,000,000.

The program seeks to meet the following overall goals:

1. Provide commercial customers with a higher return on investment in PV systems.
2. Increase renewable energy generation within PEF's service territory.
3. Increase participation in existing commercial DSM measures.

2. ELIGIBILITY REQUIREMENTS

1. The premise must be in PEF's service area and be a commercially metered customer.
2. Do-it-yourself installations are not eligible for program participation.
3. All installations must be accessible for verification by PEF and/or its contractor(s) to ensure compliance with program standards.
4. The customers must make application to PEF for participation in this program. PEF must approve the application before the incentive is guaranteed. (See Section 4 for application process).
5. The PV system must be new and installed after effective program start date.
6. Each commercial customer can participate with one PV system per premise. Since the quantity of rebates are limited, customers with multiple premises "sites" that are individually metered and physically separated may apply for multiple incentives; however, they will be evaluated on a case by case basis based upon prospective allocations.
7. The customer must transfer to PEF all renewable energy credits (REC's) and other environmental attributes associated with the solar PV system receiving rebates from PEF. Customer must agree to the following provision: "Because Progress Energy is providing

certain rebates for the equipment and/or installation, Customer acknowledges and agrees that Florida Administrative Code Section 25-6.065 does not apply to this Agreement with respect to the ownership of any environmental attributes.”

8. The applicant must be customer of record in PEF’s territory.
9. The applicant must implement at least one energy efficiency measure, which may include Business Energy Check.
10. The PV system must be rated between 2 kW and 100 kW (dc power rating) to qualify for this program. No rebates apply for commercial systems rated less than 2 kW or more than 100 kW.
11. The commercial PV system must be directly interconnected with the PEF power system.
12. Applicant must provide PEF proof showing the installation passed the local building inspection, if applicable.

2.1 EQUIPMENT AND INSTALLATION SPECIFICATIONS

1. The solar PV system must comply with all local, state, and federal rules and codes.
2. Solar PV systems must be certified and approved by the Florida Solar Energy Center.
3. The PV system shall meet all applicable IEEE, UL, IEC, and NFPA Standards related to interconnection, distributed resources and Photovoltaic Systems that are in effect as of the date of installation, including the following standards or their successors:
 - a. IEEE 1547, “IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems”.
 - b. UL Standard 1741, “Standard for Safety for Static Inverters and Charge Controllers for use in Distributed Resources”.
 - c. UL Standards 1703, “Standard for Safety: Flat Plate Photovoltaic Modules and Panels”.
 - d. IEEE Standard 1262-1995, “Recommended Practice for Qualification of Photovoltaic Modules” or IEC Standard 61646.
 - e. IEEE Standard 929 “Recommended Practice for Utility Interface of Photovoltaic (PV) Systems”.
 - f. NFPA 70, “The National Electrical Code”.

4. The commercial PV system must be directly interconnected with the PEF power system and meet all of the requirements of the following applicable interconnection Tiers as stated in PEF's Interconnection Procedures (or succeeding versions):
 - a. Tier 1 (=10 kW) No application fee, disconnect switch or insurance requirement; simply complete the application and interconnection contract.
 - b. Tier 2 (> 10kW and <=100kW) Application fee of \$240, proof of general liability insurance of \$1 million, the installation of an externally accessible, lockable a/c disconnect switch located in close proximity to the meter location, in addition to the completed application and signed contract are required for this level of installation.
 - c. Tier 3 (> 100kW and <=2000kW) Application fee of \$750, proof of general liability insurance of \$2 million, the installation of an externally accessible, lockable a/c disconnect device located in close proximity to the meter location in addition to the completed application are required for this level of installation. Given the complexity and variability of systems of this size, there may be other protection equipment required beyond the disconnect switch which will be determined through the interconnection study that would be performed by Progress Energy. Upon receipt of the application fee and initial information on the generation system and location, Progress Energy will perform an analysis to determine interconnection requirements and will notify the customer of the results within 60 days.

3. CONTRACTOR REQUIREMENTS

1. The contractor and/or subcontractor must possess appropriate license(s) and comply with all appropriate federal, state, and local building and safety codes for all work performed.
2. The contractor and/or subcontractor shall indemnify and hold harmless PEF from any and all losses, liabilities, injuries, damages, claims or costs whatsoever caused by items furnished or services rendered.
3. PEF reserves the right to request background checks and drug screenings of contractors and/or subcontractors participating in the program.
4. PEF reserves the right to develop and post a list of the contractors participating in this program.
5. The contractor is responsible for the associated work to be performed, the supervision of their employees and/or subcontractors, and the use of contractors' own equipment (or rental equipment) to meet the work specifications.
6. The contractor shall provide customer with instruction manual and training on the solar system.

7. The contractor shall provide customers with explicit warranty information including the following:
 - a. Length of warranty
 - b. Cost of material during warranty period
 - c. Cost of labor during warranty period
8. The solar system must be installed in accordance with the manufacturers' recommendations and specifications.
9. The contractor must correct any deficiency found in the installation or product(s) associated with the program, when advised by a PEF representative, and notify the PEF representative of compliance within 30 days of notification by PEF representative.
10. The contractor and/or subcontractor shall assist customers in completing application for incentives.
11. The contractor and/or subcontractor must follow all PEF and program marketing guidelines and requirements.
12. All contractors must comply with PEF contractor procedures. Failure to do so may result in termination of participation in any or all PEF programs.

4. INCENTIVES

The incentive for this program is a tiered rebate, based on the PV DC power rating, as follows:

- a. Up to \$2.00 per Watt for the first 10 kW
- b. Up to \$1.50 per Watt for each increment of capacity above 10 kW up to 50 kW
- c. Up to \$1.00 per Watt for each increment of capacity above 50 kW up to a maximum total system size of 100 kW

4.1 INCENTIVE APPLICATION

1. Customer must complete and submit an Application for participation under the Program prior to installation of the generating system.
 - a. For an Application to be approved by PEF, the system must be rated by a certified solar contractor to produce a minimum of 1000 kWh /year of ac energy per kW dc rating.
 - b. If System construction or installation occurs before Application acceptance, then PEF may, in its sole and absolute discretion, determine that the

Applicant's System is ineligible for the Program. In such event, PEF shall have no obligation to make any Program payment to Applicant.

2. Upon approval, PEF will assign a reservation number to the Application, and notify the Applicant of said reservation number and amount.
3. Within 90 days of the Application acceptance, the Applicant must submit the completed PEF solar incentive form and supporting documents; providing proof of completion, local inspection(s) and readiness for PEF verification.
4. Failure to submit the completed PEF solar incentive form and supporting documents within 90 days shall void the reservation number and amount.
 - a. Funding reservations will be reallocated to the program and if there is additional funding available, the applicant may reapply for the incentive.
 - b. By case basis based on a review of the project advancement.
5. Reservations for a year's funding will begin October 1 of the previous year and close September 30 of the funding year.
 - a. The reservation process for incentives will be on a first come first served basis.
 - b. Once the \$1,000,000/year program funding has been allocated, no additional reservations for that year will be accepted.
 - c. Incentives will only be awarded to systems that are specifically reserved for the given year.

4.2 INCENTIVE PROCESSING

1. Complete and send program form to specified PEF address. The form will record information such as:
 - Customer information - name, premise information, account number, and telephone number.
 - Contractor information - name, license number, address, and telephone number.
 - System information - manufacturer, model number, installation date, permit number, and production projections (kWh).
 - A copy of the contractor invoice.
 - PEF Application for participation with valid reservation number.

2. Upon receipt of the completed form, PEF will select systems for verification.
3. If the system passes verification, or is not selected for verification, the form will be processed for payment.
4. All incentive payments are paid to the customer.

5. REPORTING REQUIREMENTS

The reporting requirements for this program will follow Rule 25-17.0021(5), Florida Administrative Code.

**PROGRESS ENERGY FLORIDA, INC.
PROGRAM PARTICIPATION STANDARDS
PHOTOVOLTAIC FOR SCHOOLS PILOT**

PROGRESS ENERGY FLORIDA, INC. PROGRAM PARTICIPATION STANDARDS PHOTOVOLTAICS FOR SCHOOLS PILOT

1. PROGRAM OVERVIEW

The Photovoltaic for Schools Pilot is designed to assist public and post secondary schools with energy costs while promoting energy education. This program will provide participating public schools with new photovoltaic (PV) systems at no cost to the school.

Public schools that are customers of PEF can apply for participation in this program. The program will be limited to an annual target of one system with a rating up to 100 kW installed on a post secondary public school and up to (10) 10 kW systems with battery backup option installed on public schools, preferably serving as emergency shelters. Post secondary school participation will be prioritized based on criteria such as attendance and energy consumption associated with their main campus, as well as the schools' plan to use the solar array as an educational and research tool. Public schools will be selected using a competitive process that aligns with Florida's SunSmart E-Shelters Program Application with an emphasis placed on the schools commitment to energy efficiency and renewable energy education. PEF will have the option to own and operate the equipment for the first five years after installation, at the end of which time the ownership and maintenance responsibilities will transfer to the Customer. The incentive for this program is the total equipment cost of the solar PV system plus the associated installation.

This program places an emphasis on energy education and promotes environmental stewardship. As such, PEF residential customers participating in the Winter-Only Energy Management or Year Round Energy Management residential demand response programs can elect to contribute their monthly credit toward a fund designed to support and promote energy education. The fund will accumulate associated participant credits for a period of 2 years, at which time the customer may elect to renew for an additional 2 years. All proceeds collected from participating customers and their associated monthly credits, will be used to promote energy efficiency and renewable energy educational opportunities.

Goals of the program are to:

1. Eliminate the initial investment required to install a renewable solar PV system
2. Increase participation in existing residential Demand Side Management measures through energy education.

3. Increase solar education and awareness in PEF communities and schools.

2. ELIGIBILITY REQUIREMENTS

1. The building/facility must be a public educational facility and have a metered PEF commercial account.
2. PEF will have the option to own and maintain the photovoltaic system for the first five (5) years after installation. At the end of the five (5) year period, the school shall assume ownership and all associated maintenance and operating costs of the photovoltaic system. Alternatively, should PEF elect not to own the photovoltaic system, the school must agree to own, operate and maintain all equipment immediately upon installation, and commissioning of the system.
3. Public schools serving as emergency shelters will be preferred and receive a photovoltaic system up to 10 kW in size with the potential to also receive a battery backup component. The sizing of the PV system and batteries will be based upon the application criteria and physical campus constraints.
4. Postsecondary schools will receive a photovoltaic system up to 100 kW. The sizing of the PV system will be based upon the application criteria and physical campus constraints.
5. The school shall meet all applicable PEF Interconnection requirements.
6. All installations must be accessible for verification by a PEF representative and/or its contractor(s) to ensure compliance with program standards and, in the instance of PEF system ownership, ongoing maintenance.

3. CONTRACTOR REQUIREMENTS

PEF will select a contractor to conduct the installation. The PEF contractor(s) must comply with all local, state and federal rules and codes. The selected PEF contractor(s) / and or project facilitator is/are responsible for all work performed and must meet and/or comply with PEF requirements.

4. INCENTIVES

The incentive payment structure is as follows:

Program Component	Incentive
Photovoltaic for Schools Pilot – Postsecondary Schools	The solar PV system will be provided at no cost to the school (approximately \$750,000 /system).
Photovoltaic for Schools Pilot – Emergency Shelters	The solar PV system will be provided at no cost to the school (approximately \$130,000 /system).

5. REPORTING REQUIREMENTS

The reporting requirements for this program will follow Rule 25-17.0021(5), Florida Administrative Code.

**PROGRESS ENERGY FLORIDA, INC.
PROGRAM PARTICIPATION STANDARDS
RESEARCH AND DEMONSTRATION PILOT**

PROGRESS ENERGY FLORIDA, INC. PROGRAM PARTICIPATION STANDARDS RESEARCH AND DEMONSTRATION PILOT

1. PROGRAM OVERVIEW

The purpose of this program component is to research technology and establish R&D initiatives to support the development of renewable energy pilot programs. Demonstration projects will provide real-world field testing to assist in the development of these initiatives. The program will be limited to a targeted annual expenditure of \$323,380; 5% of the total Demand-Side Renewable Portfolio targeted annual expenditure.

Each R&D project will be designed to support the development of future solar and renewable energy pilot programs, and in general will proceed as follows:

- Project concept or idea development
- Project research and design, including estimated costs and benefits
- Conduct field test, modeling, general research, and theoretical testing

2. ELIGIBILITY REQUIREMENTS

Customers who are eligible to participate in field demonstration projects will be determined during the project research and design phase, and will be dependent on the type of project being proposed and investigated. Field demonstrations will involve only a limited number of customers. Participants in field demonstration projects must allow Progress Energy and its contractors access to the facility for maintaining and monitoring the evaluation equipment. Progress Energy will be solely responsible for determining the technologies to be evaluated under this program.

3. CONTRACTOR REQUIREMENTS

Support of the Demand Side Renewable Portfolio Research and Demonstration Pilot for equipment installation, research and analysis, etc. may be performed by contractors and/or consultants. Expenditures for these services will be documented and included toward the total annual financial project limits.

4. INCENTIVES

As part of this program, Progress Energy may compensate participants in field demonstration projects for their willingness to support the technology evaluation.

Incentives will be project specific, captured as an expenditure, and commensurate with the impact to the participants. Targeted annual expenditure for this program is \$323,380; 5% of the total Demand Side Renewable Portfolio expenditure cap.

5. REPORTING REQUIREMENTS

A status report will be filed as a component of the Energy Conservation Cost Recovery Projection and True-Up filings, and will include a summary of activities and expenditures.