



Residential Building Envelope

Trade Ally Program Standards

Effective: November 1, 2006

**Florida Power & Light Company
Residential Building Envelope
Program Standards**

Table of Contents

Program Objective.1

Customer Eligibility. 1

Trade Ally Eligibility 2

Product Eligibility. 3

Participation Requirements. 4

Incentive Processing 5

Reporting Requirements 5

Appendix

- A. Incentive Payment Schedule

Program Objective

The objective of the Residential Building Envelope Program is to reduce electrical demand and energy usage from air conditioning equipment by encouraging energy conservation through the installation of qualifying measures.

Customer Eligibility

The Program shall be available to all FPL residential customers who install qualifying measures such as ceiling and roof insulation or reflective roof measures in their eligible dwellings.

- The FPL residential customer's dwelling must be one year or older to qualify.
- The Program applies to retrofit applications only.
- Eligible dwellings must have whole house electric heating or air conditioning. Whole house heating/air conditioning is defined as either a central system(s) or sufficient window/wall units to provide heating/cooling to the majority of the living space in the house.
- The Program measures must be installed by an FPL Participating Independent Contractor (PIC) in accordance with the manufacturer's recommendations and specifications. However, governmental entities including local, state and federal agencies may, at FPL's discretion, install the program measure themselves provided all other program standards are followed.
- Installations required by federal, state or local building or energy codes when additions and/or renovations are made to existing buildings are not eligible for incentives offered by this program.
- Installations must be accessible for verification by FPL.
- Do-it-yourself installations do not qualify for an incentive.

Ceiling and Roof Insulation Measures

- FPL incentives can be issued either by a PIC or an FPL representative. To

become eligible for an FPL issued insulation Incentive Certificate, the customer must have a visual home inspection, as defined by FPL, prior to the installation of the qualifying Residential Building Envelope Program measure. For incentives issued by the PIC, a home inspection prior to installation prior to installation, is not required.

- In single family dwellings and in multifamily buildings which do not have standardized types of dwelling units, each dwelling will be surveyed separately. In multifamily buildings where there are standardized types of dwelling units, a representative sample of each type of unit will be surveyed. In cases of multiple installations, FPL, not the PIC, must qualify the defined community or complex for program eligibility.

Reflective Roof Measures

- PIC's will qualify customers at the point of sale and issue the incentive.

Trade Ally Eligibility

For the purposes of the Program, a trade ally is defined as a FPL PIC who installs building envelope measures. To be eligible as an FPL PIC, a contractor must sign and comply with FPL's Demand Side Management Program Contract. In performing the installation of qualifying Residential Building Envelope Program measures, a PIC must:

- resolve prior to the installation any differences with the customer about recommendations made in the Incentive Certificate
- leave with the customer a contractor invoice that will indicate FPL's rebate for customer verification
- make a product specification sheet available to FPL
- correct any deficiency in the conservation product or mechanics of installation found by the FPL representative within 30 calendar days of notification
- comply with all local, state, and national rules, permits and codes pertaining to the installation of the Residential Building Envelope Program measure

FPL reserves the right to verify each installation for which an Incentive Certificate has been issued.

FPL will be the final judge of whether the requirements of the Residential Building Envelope Program have been met. Payment will not be rendered on any Incentive Certificate where the installation of a Program measure is unacceptable to FPL.

FPL reserves the right to modify or terminate the Residential Building Envelope Program Standards at any time with ten (10) days written notice to the PIC's.

Product Eligibility

All qualifying Residential Building Envelope Program products must be installed according to the manufacturer's recommendations and specifications. Additionally, all qualifying products must have thermal properties, solar reflectance and performance characteristics independently tested using the American Society of Testing and Materials (ASTM), American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), Energy Star, Cool Roof Rating Council (CRRC) or other FPL-approved calculations and test methods, where appropriate.

Ceiling Insulation Measures

Qualifying ceiling insulation measures are blown-in (loose fill), batt, and blanket types.

Roof Insulation Measures

- Roof insulation will be considered as any qualifying material placed under the roof.
- Qualifying roof insulation measures include, but are not limited to, sprayed foam, or fiber insulation types.

Reflective Roof Measures

- Eligible measures include roofs made of metal, cement tile or ceramic tile, thermoplastic roof membranes and reflective roof coatings.
- The reflective roof material must have an ASTM measured solar reflectance minimum of 73% for tile, membranes and coatings, and 65% for metal.
- For thermoplastic roof membranes and reflective roof coatings, the overall effective thermal resistance of the existing insulation may not exceed R-19. The

existing roof solar reflectance shall be less than 40% to qualify. Tables published by Lawrence Berkeley National Laboratory under the Cool Roofing Materials Database will be used to determine the solar reflectance value of the existing roof.

Participation Requirements

Ceiling Insulation must:

- be installed as a direct application over the ceiling in an unconditioned area (ie, attic) over the conditioned space.
- be installed uniformly with the additional insulation equal to or greater than R-19 throughout the entire area, including scuttle hole.
- not cover soffit or any other type of attic ventilation system.
- have minimum clearance around all recessed lighting, and gas fired appliances as stipulated in state, county, and local codes.

Space limited or flat roof installations are not eligible.

Roof Insulation must:

- be installed under the roof.
- be installed uniformly with the additional insulation equal to or greater than R-19 throughout the entire area.

Reflective Roof Measures:

For tile or metal roof replacement, partial installations are not eligible.

For membranes and coatings:

- partial installations must have a minimum of 1000 square feet of reflective roof measure installed per incentive application. If the total qualifying area is less than these limits, the installation must cover the total qualifying area.
- PIC must allow FPL to perform a pre-installation inspection (if deemed necessary).

Incentive Processing

Before installation begins, an Incentive Certificate must be issued to the customer. Incentive payments for qualifying Residential Building Envelope Program measure(s) will be calculated using Incentive Payment Schedule (see appendix A). Incentive payments will be limited to the face value of the Incentive Certificate.

The incentive amount must be deducted from the sales contract prior to installation. An Incentive Certificate cannot be exchanged for a cash payment.

When the installation is completed, the customer or customer's designee signs the Incentive Certificate and gives it to the FPL PIC as partial payment for the installation.

To receive an incentive payment reimbursement from FPL, the PIC must:

- fill in the PAYEE section of the Incentive Certificate including the name of the Company or Contractor, phone number, contractor number, mailing address, and installation date.
- sign the Incentive Certificate.
- complete the applicable section(s) of the Incentive Certificate for Residential Building Envelope Program measures.
- forward the Incentive Certificate with the appropriate attachments to the local FPL office for processing.

For tile or metal roof replacement, PIC may qualify for an additional marketing reimbursement which will be paid to the PIC for each qualifying home.

Reporting Requirements

All program charges such as Payroll & Benefits, Material and Supplies, Outside Services, Advertising, Vehicles, Other, and Incentives Costs shall be reported in the Energy Conservation Cost Recovery True-Up and Projection Filings, specifically through Schedules CT-2 and C-2 respectively.

Appendix A
Incentive Payment Schedule

Incentive Payment Schedule

Incentives will be rounded off to the nearest dollar.

Ceiling and Roof Insulation Measures

Existing R-Value	Installed = or > R19
R0 - R2 FPL Issued	\$300
R3 – R8 FPL Issued	\$150
PIC Issued	\$140

Reflective Roof Replacement Measures

Roof Type	Minimum Solar Reflectance	FPL Incentive
Metal	65%	\$325
Tile	73%	\$325

Reflective Roof Membrane and Coating Measures

Roof Type	Minimum Solar Reflectance	FPL Incentive
Thermoplastic membranes	73%	50¢ sq. ft
Roof Coating	73%	50¢ sq. ft