

Work scope for Solar PV Demonstration Project

Preparatory Work

1. Design 25 kW photovoltaic (PV) system in accordance with manufacturer's specifications.
2. Provide string sizing, engineering and roof layout.

PV Racking System

1. Attach panels flush with the three (3) trellis structures located at Waterfront Commons in downtown West Palm Beach.
2. Remove plexiglass before installing solar panels.
3. Attachment of racking system to be engineered in accordance with local wind speed calculations in accordance with ASCE-04 guidelines and local building codes.
4. All engineering and labor necessary to install a complete photovoltaic power generation system.

PV Modules

1. Furnish and install 25 kW in solar panels.

Inverter/Power Generated

1. Furnish and install inverter(s) matching the electrical requirements of the above array.
2. Furnish and install wiring to transmit power from inverter to building electrical system.

Accessories

1. Furnish and install all wiring needed for the installation. Exposed wiring will be housed in the wire management system and outdoor UV rated.
2. DC/AC disconnects as required by engineering will be installed per wiring schematic.
3. Data monitoring system for 5 years of real-time data via internet available if Ethernet connection is provided by owner.
4. One kiosk display to be installed in a location specified by owner. The display will show the performance of the system and the environmental savings. The inverter will be able to display data to a monitoring station. Ethernet connection is to be provided by owner.

Permitting, Construction and Testing

The contractor is responsible for all permitting and testing, including the following:

- Engineering signed and sealed design wind pressure calculation, including connections to trellis structures.
- Elevation plan of trellis structures.
- Provide attachment and engineered fastening pattern in accordance with ASCE 7-02 and Florida Building Code 2004 Edition Roof Application Standard RAS 117.
- Notice of Commencement filing with the Palm Beach County (or City of West Palm Beach) and fees before the start of the project. Notice Of Termination will be filed at the end of the project upon final payment.
- Final design drawings to be submitted to owner before permit application.
- Restoring all disturbed existing improvements as a result of construction and start-up activities.

Warranty

Two year guarantee on materials and labor.

Ten year guarantee on inverter.

Twenty five year limited guarantee on power output on solar panels.

