



# Take A Load Off, Texas<sup>SM</sup> Solar PV Program

## *Program Guidebook / Application Process Update*

February 18, 2009

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Take a Load Off, Texas Solar PV Program

*Take A Load Off, Texas<sup>SM</sup> is provided by Oncor Electric Delivery LLC as part of the company's commitment to reduce energy consumption and demand. Frontier Associates and Clean Energy Associates implement the Take A Load Off, Texas Solar PV Program as an independent contractor.*



# Application Process Updates

## Customer Social Security Numbers

- Asked for on page 1 of the Project Pre-Application Form
- These are not needed for residential customers, whether or not they are the incentive recipient

### **5. Incentive Recipient** (To whom should Oncor direct the incentive payment?)

If individual: SS#: \_\_\_\_\_

If business: Tax ID#: \_\_\_\_\_ SS#: \_\_\_\_\_ (also attach W-9)

Check here if same as #1,  here if same as #2,  here if same as #4, skip to next section

Recipient Name: \_\_\_\_\_

Recipient Company Name (if applicable): \_\_\_\_\_

Recipient Address Line 1: \_\_\_\_\_

Recipient Address Line 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_



## Interconnection Application and Supporting Documents Are Not Needed with Project Pre-Application Form

- IC App, site map, and 1-line electrical diagram should be submitted directly to Oncor's DG Coordinator (Ken Brunkenhoefer) once your Pre-Application has been approved for incentive
- You will need to work with Oncor to obtain a signed Interconnection Agreement for your project
- A copy of the signed Interconnection Agreement will be due with the Final Application

### 9. Additional Information Attached

- ~~Oncor Interconnection Application (2 pages), plus~~
  - ~~One-Line Electrical Diagram of Proposed System (1 page)~~
  - ~~Site Layout Sketch (1 page)~~
- PVWatts version 1 estimate of annual energy production (use <sup>shade-adjusted</sup> ~~default~~ derate factor, proposed tilt and orientation, ~~assume no shading~~)
- Copy of recent customer electric bill for installation location



# Application Process Updates

## Application Confirmations

- Send Project Pre-Application form, Final Application form and all attachments to [opvapps@frontierassoc.com](mailto:opvapps@frontierassoc.com).
- Starting this week, you will receive a confirmation email whenever we receive your email (the confirmation may not be immediate, however).
  - (Interconnection Application, attachments, and all communications regarding the Interconnection should be sent separately to Oncor's DG Coordinator.)



# Clarification – Reference System

## How to Fill In the Reference System (top line)

- Use PVWatts v1:
  - Select the location closest to your proposed system
  - Enter your system's DC capacity
  - Leave everything else at the default values
    - » Tilt = latitude tilt
    - » Orientation = due south
    - » DC-to-AC derating factor = 0.77
  - Run the model and enter the annual kWh in the top line for the reference system.

### Estimated Annual Energy Production

	(kWh/yr, reference system @ latitude tilt/due south, PVWatts v1, no shading)
	(kWh/yr, proposed system @ proposed tilt/orientation, PVWatts v1, using appropriate factors to account for shading)



# Clarification – Proposed System

## How to Fill in the Proposed System (bottom line)

- Use PVWatts v1
  - Enter your proposed system's location(using the closest city), capacity (kWdc), tilt, and orientation.
    - » If there is no shading run PVWatts using the default DC-to-AC derating factor of 0.77.
    - » If there is any shading on the array, make a downward adjustment to the PVWatts derate factor to account for the shading (see recommended method for quantifying shading on the next page).
  - Be sure the location, capacity, tilt, orientation, and shading adjustment shown in your model match those values as presented elsewhere in the application.
  - Enter the annual kWh in the bottom line for the proposed system
- Submit this PVWatts run along with your Project Pre-Application form.



# Clarification - Quantifying Shading

## Use a Solar Pathfinder:

- Take multiple Pathfinder readings along the lower edge of each array. Minimum of 2 readings at the bottom corners of each array. For each reading:
  - Take a digital photo of the Pathfinder, using the directions supplied with the Pathfinder software (Solar Pathfinder Assistant).
  - Load the digital photo into Solar Pathfinder Assistant. Enter your system's location, capacity, tilt, and orientation. Set the derate factor to 0.77, run the model and record the annual kWh.
- Calculate the average annual kWh from your Pathfinder runs and enter this value as the annual kWh of your proposed system (bottom line).
- Find the DC-to-AC derating factor which yields an equivalent result for your proposed system on PVWatts.
- Submit this PVWatts run along with your Project Pre-Application form.



# Clarification - What to Submit

## What is required of the PVWatts submittal with the Project Pre-Application form?

- You should submit one PVWatts estimate of your Proposed system's production
- It should be the PVWatts estimate of your Proposed System
- We should never receive a PVWatts output result with a derating factor greater than the default of 0.77.

### 9. Additional Information Attached

- ~~Oncor Interconnection Application (2 pages), plus~~
  - ~~One-Line Electrical Diagram of Proposed System (1 page)~~
  - ~~Site Layout Sketch (1 page)~~
- PVWatts version 1 estimate of annual energy production (use <sup>shade-adjusted</sup> ~~default derate~~ factor, proposed tilt and orientation, ~~assume no shading~~)
- Copy of recent customer electric bill for installation location



## Why is the Electric Bill necessary?

- A copy of the bill provides a current link between the customer name, service address, ESI-ID, meter number, and recent energy consumption.
- All of these items are reported in the Project Pre-Application, and are checked for consistency.



# Program Web Sites and Key Contacts

- Oncor’s TALOT Web site:  
<http://www.takealoadofftexas.com>
- Solar PV Program Web site:  
<http://www.txreincentsives.com/opv/>
- Key Contacts

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