



New Jersey's Clean Energy Program

As Built Technical Worksheet for Solar Electric Equipment

Please carefully read all of the following information. With the help of your installation contractor, fully complete sections A through D. ALL PARTIES MUST SIGN SECTION E.

A. CUSTOMER INFORMATION

The customer's name that appears on the initial application/ registration must be the name that appears on this form. The approval/ acceptance letter number must be the number assigned by the NJBPU.

B: EQUIPMENT INFORMATION

1. The equipment listed in this section of the As Built Worksheet must be a true representation of the equipment installed on site of the applicant/ registrant.
2. The total array output as specified in item 3 of this section is a critical reporting requirement. If this is misrepresented, the installer may be subject to an inspection charge of \$400.00.
3. A 5" X 7" digital photograph(s) of at least 300 DPI must be submitted affixed to the attached template. The photograph(s) must be an accurate and true representation of the system installed for the applicant list on this form.

C: INSTALLATION INFORMATION

1. The system installation information supplied in this section must be accurate to within the following tolerances:
 - a. Azimuth (orientation) must be within +/- 3 degrees of the degrees reported on this form. Orientation shall be in degrees true (Ex. 191 magnetic = 180 True South)
 - b. Tilt must be within +/- 3 degrees of that reported on this form.
 - c. Shading must be within +/- 3%
2. Indicate the type of tracking, if applicable, has been used for this installation

D: SYSTEM ESTIMATED PRODUCTION CALCULATION

Estimated production calculations are one of the critical system information requirements of this technical worksheet. Each of the following requirements must be supplied with sufficient supporting documentation that will warrant acceptance of these forms:

1. Shading analysis shall be performed per the **As Built Checklist**. If there is no shading an installer can submit satellite imagery that substantiates that there is zero shading impact on the system for all 12 months of the year instead of the shading analysis. If this can be substantiated, the installer can submit this alternative method and certify that at the time of installation there is no shading on the system.
2. Actual system installed estimated production shall be calculated using PVWATTS (version 1 preferred) as per the **As Built Checklist**.

For systems without shading or changes to the derate factors: Use the standard default rating of PVWATTS (Version 1 preferred) and the following inputs from either the **original or revised Solar Technical Worksheet**:

- Total array output from line D.3;
- The module orientation from line D.2;
- The module tilt from line D.3;
- The type of module tracking from line D.4.

For systems with shading or changes to the derate factors:

- All the PVWATTS documentation listed above for systems using the new derate factors and actual data from the **Solar Technical Worksheet** must be submitted.
- Complete documentation on why there are changes to the derate factors must be submitted. **The only acceptable changes are for PV module spec sheets and/or inverter spec sheet.**
- A printed copy of the **calculator for overall DC to AC derate factor** page with all the changes must be submitted. This is the derate factor help page.

E: CERTIFICATION (Signatures Required)

1. By signing the certification the installer, applicant and owner, if different, attest to the accuracy and completeness of the information.
2. For the 3rd inspection and thereafter for a given project, installers are subject to paying an inspection fee at a rate of \$400.00 per inspection.
3. The signature for the installer shall be from an Officer, Principle or Executive of the company that has signing authority for the company.



New Jersey's Clean Energy Program

As Built Technical Worksheet for Solar Electric Equipment



A: CUSTOMER INFORMATION

Customer Name: _____ Application/Registration Number: _____
 (Name corresponds to customer name on the REIP Application Form or SREC Registration Form and the Application numbers corresponds to the number listed on the Approval or Acceptance Letter by the NJBPU)

B: EQUIPMENT INFORMATION

- Solar Electric Module Manufacturer: _____ Module Model Number: _____
- Power Rating per Module: _____ DC Watts (Refer to STC conditions) Number of Modules: _____
- Total Array Output: _____ DC Watts (This must be the exact system DC rating) (No. of Modules x Power Rating)
- Inverter Manufacturer: _____ Inverter Model Number: _____
- Inverter's Continuous AC Rating: _____ AC Watts Number of Inverters: _____
- Total Inverter Output: _____ AC Watts (Inverter Continuous AC Rating x Number of Inverters)
- Inverter's Peak Efficiency: _____ (Refer to manufacturer's peak efficiency rating)
- System photo that is attached is a true representation of the system installed per the application

C: INSTALLATION INFORMATION

- Array Location: Rooftop Pole Mount or Ground Mount Location: _____
- Orientation: _____ degrees TRUE (e.g., 180 degrees True south is 191 degrees Magnetic, 3. Tilt: _____ degrees (e.g., flat mount = 0 degrees; vertical mount = 90 degrees, Tolerance +/- 3 degrees)
- Tracking: Fixed Single-axis Double-axis
- Inverter Location: Indoor Outdoor Location: _____
- Interconnection Type: Behind-the-Meter Direct Grid-Supply

D: SYSTEM ESTIMATED PRODUCTION CALCULATION

- Shading analysis has been performed for this installation. The attached shade calculation has been completed and is accurate to the best of the technical and administrative ability of the installer. The shading analysis shows the loss of production associated with shading is _____ % If there is no shading on the system an alternative to this shading analysis is available by submitting a satellite view of the location of the solar electric system and attest by signing below that no shading exists on the system at the time of installation.
- Actual system installed rated output (From PVWATTS): _____
 - Ideal system rated output (from PVWATTS): _____
 - The **actual system installed** PVWATTS divided by the **ideal** PVWATTS equals _____ and this must be 80% or greater to receive the full rebate and atleast 70% to receive a partial rebate.
- It is acknowledged that this production estimate is for SREC calculation only and may not be a true representation of annual system production. The attached estimated production calculation has been completed and is accurate to the best of the technical and administrative ability of the installer.

E: CERTIFICATION (Signatures Required)

The undersigned by signing below attest to the accuracy and completeness of the above and the attached information. If NJCEP determines through an evaluation process of either on-site inspection or audit that the system has been misrepresented the installer may be subject to paying for this inspection at a rate of \$400.00 per inspection until this and all previous and subsequent QA inspections that this installer has performed. The signature for the installer shall be an Officer, Principle or Executive of the company that has signing authority for the company.

System Applicant: _____	System Installer: _____	System Owner: _____
Signature: _____	Signature: _____	Signature: _____
Print Name: _____	Print Name: _____	Print Name: _____
Date: _____	Date: _____	Date: _____



New Jersey's Clean Energy Program

As Built Technical Worksheet for Solar Electric Equipment



Insert 5" X 7" 300 DPI Photo Here

Insert 5" X 7" 300 DPI Photo Here