

Permit # [For Jurisdiction Use]: \_\_\_\_\_

## Connecticut Standardized Solar Photovoltaic (PV) Permit Application

Date: \_\_\_\_\_

Property Type, Residential (R) Commercial (C), Other (specify): \_\_\_\_\_

General Description of Photovoltaic Array: \_\_\_\_\_

System Size (kW DC): \_\_\_\_\_

Property Owner: \_\_\_\_\_

Street Address: \_\_\_\_\_ Parcel ID #: \_\_\_\_\_

Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Cell: \_\_\_\_\_

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

Additional Information: \_\_\_\_\_

Contractor: \_\_\_\_\_

Street Address: \_\_\_\_\_

Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Cell: \_\_\_\_\_

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

License Type: \_\_\_\_\_ State: \_\_\_\_\_

License Number: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Scope of Work: \_\_\_\_\_

Subcontractor or Professional Engineer: \_\_\_\_\_

Street Address: \_\_\_\_\_

Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Cell: \_\_\_\_\_

Email Address: \_\_\_\_\_ Fax: \_\_\_\_\_

License Type: \_\_\_\_\_ State: \_\_\_\_\_

License Number: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Scope of Work: \_\_\_\_\_

Please list on a separate sheet, included as attachment I, all of the above subcontractor information for any additional subcontractors employed on the project.

### SOLAR PV SYSTEM INFORMATION

#### Mounting Description

Mounting Type (roof, pole, ground, other-specify): \_\_\_\_\_

Mounting System Manufacturer: \_\_\_\_\_ Product Name and Model #: \_\_\_\_\_

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## Building Information (For Roof-Mounted Systems Only)

Building Type (e.g. house, shed, barn, slab): \_\_\_\_\_

Building Height (in feet): \_\_\_\_\_

## Electrical Description

Size (amps) and type (phase, voltage) of electrical service: \_\_\_\_\_

Amperage of main breaker: \_\_\_\_\_ Will the value of main breaker change? (Yes/No): \_\_\_\_\_ To: \_\_\_\_\_

Rated amperage of the bus bar in the main panel: \_\_\_\_\_

Type of interconnection (e.g. breaker-load side, supply-side interconnect): \_\_\_\_\_

Electrical panel location: \_\_\_\_\_

If load side interconnect, will solar intertie into a subpanel? (Yes/No): \_\_\_\_\_

If yes, rated amperage of the subpanel bus bar? \_\_\_\_\_ Value of breaker protecting subpanel bus bar? \_\_\_\_\_

**Attachments for application** (See Instructions on the next page. Example attachments are available for download at [www.energizect.com/sunrisene](http://www.energizect.com/sunrisene))

- 1. Additional Subcontractors and Information
- 2. One-Line Electrical Drawing
- 3. One-Line Site Plan Drawing
- 4. Attachment Details (Line Drawing)
- 5. Solar PV Module Specification Sheets From Manufacturer
- 6. Inverter Specification Sheets From Manufacturer
- 7. Pole or Ground Mount Information (if applicable)
- 8. Structural Evaluation (if required by municipality)
- 9. Additional Information for Large Solar PV Systems (as Specified by the Municipality)

**\*NOTE:** Applications should submit either Attachment 4 for roof-mounted systems OR Attachment 7 for pole/ground mount-mounted systems, not both.

## Certification

I hereby certify that  I am the owner of record of the named property or;  the proposed work is authorized by the owner of record and/or I have been authorized to make this application as an authorized agent, and we agree to conform to all applicable codes, laws, regulations and ordinances. All information contained within is true and accurate to the best of my knowledge and belief. No work shall start until the Jurisdiction has approved the permit or until the Contractor has received approval from \_\_\_\_\_ [Jurisdiction Name].

Signature of Property Owner or Authorized Agent \_\_\_\_\_

Typed or Printed Name of Signatory \_\_\_\_\_ Date \_\_\_\_\_

## Connecticut Standardized Solar PV Permit Application

Please Complete the Application Form (pages 1-2) and provide ALL applicable Attachments based on the below instructions for Attachments 1-8. Attachment 8 is a Structural Evaluation to be completed if required by the municipality. Additional information required by a municipality for large solar PV systems can be submitted as a 9<sup>th</sup> Attachment. Example Attachments (e.g. sample drawings can be found at [www.energizect.com/sunrisne](http://www.energizect.com/sunrisne)).

### **Each Attachment—Subcontractor List, Drawings and Calculations—Must Include:**

- Date
- Property Owner
  - Name
  - Address
  - Contact phone number
- Installation Company
  - Name of company and contact person
  - Address
  - Contact phone number
- Drawing number and Revision number or other control method
- Drawing designer

### **Attachment 1. Additional Subcontractor List** (If Needed, as per Permit Application)

### **Attachment 2. One-Line Electrical Drawing Must Show:**

- Size of electrical service
  - Size of Main Breaker
  - Size of Bus Bar (If Known)
- Type of electrical service
- If interconnection point is a subpanel
  - Size of Subpanel Main Breaker
  - Size of Subpanel Bus Bar (If Known)
- Nominal power of solar system (Watts)
  - DC Capacity: Nameplate “STC” Value of all panels, watts
  - AC Capacity: Total AC capacity of Inverters, watts
- Batteries (If Present): Type, Quantity, Nominal Voltage, Capacity kWh
  - H<sub>2</sub> mitigation methods (If Necessary)
- Interconnection method
  - Size of overcurrent protection
- Number, type and electrical configuration of solar panels
- Number and type of Inverters
- Values for source stickers: NEC 690.53; NEC 690.54 (Encouraged, Not Required)
- Wiring methods
  - Wire Type(s), Size
  - Conduit Type(s), Size
- Solar metering (If Appropriate)
- Electrical current contribution from all PV sources
- Electrical grounding details: Wire Type, Size, GEC

### **Attachment 3. One-Line Site Plan Drawing Must Show:**

- Location of solar panels
- Location of Inverters and major equipment
- Location of roof obstructions (Vents, Chimneys, etc.)
- Location of Main Breaker Panel
- Location of Utility Meter
- Location of AC disconnect
- Location of batteries and/or charge controllers (If Appropriate)
- Location of solar metering (If Appropriate)
- Planned conduit path (Encouraged, Not Required)
- Gross dimensions of structure (If Appropriate)
- Approximate layout of building or other structure (If Appropriate)
- Property lines, zoning, and setback considerations (If Appropriate)
- Trenching details: Location, Depth and Length of Trench (If Appropriate)
- A notation indicating scale —or not to scale (Both are Acceptable)

### **Attachment 4. Attachment Details for Roof-Mounted Systems (Line Drawing) Must Show:\***

- Racking System
  - Manufacturer of racking structure
  - Model
  - Type
- Flashing description

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## (Attachment 4 Continued)

- Fastener detail
  - Type of fasteners, e.g. Lag Screws, Seam Clamps, Ballast
    - If Lag Screws include **(1)** Type (e.g. Zinc, Stainless steel), **(2)** Size of Lag, **(3)** Depth of Thread Penetration, **(4)** Type of Sealant (e.g. caulk)
- Mitigation of Dissimilar Metals
  - Describe how any dissimilar metals will be isolated

## Attachment 5. Solar PV Module Specification Sheets

(provide PDF from manufacturer)

## Attachment 6. Inverter Specification Sheets (provide PDF from manufacturer)

## Attachment 7. Pole Mount or Ground Mount Information (if applicable):\*

- Racking system
- Mounting specification sheets and details from manufacturer (PDFs)
- Manufacturer's Pre-Engineered Document or PE Stamp
- Code Compliance Manual (If Requested by Municipality)
- One-way distance from the Solar PV system to the interconnection point
- Electrical grounding details
- Height of solar PV system at maximum design tilt
- Applicable zoning information if not shown on site plan (e.g. setback from property line)

## Attachment 8. Structural Evaluation (if required by the municipality)

- **NOTE:** *If this Attachment is required by the municipality it must be submitted in a format accepted by the municipality (see two examples, listed below). Installers should contact the municipality's Building Department to determine what documentation will meet the municipality's Structural Evaluation requirements.*

### Two potentially acceptable formats are:

1. Structural Review Worksheet (available at [www.energizect.com/sunrisene](http://www.energizect.com/sunrisene)). This worksheet can be used by an installer to meet the Structural Evaluation requirements for the municipal Building Department if that department specifically authorizes its use for that purpose.  
**OR**
2. Proof of a Structural Review performed by a Registered Design Professional (e.g. Professional Engineer).

## Attachment 9. Additional information required for larger solar PV systems

- This Standardized Solar PV Permit Application can also be used to permit larger systems. If a municipality requires additional information to permit larger systems, they should specify the information needed as a 9<sup>th</sup> attachment to the application.