Permit # [For Jurisdiction Use]: _____

energize CONNECTICUT

Connecticut Standardized Solar Photovoltaic (PV) Permit Application

Date: _____

Property Type: ☐ **Residential (R)** ☐ **Commercial (C)** ☐ **Other (specify):** _____

General Description of Solar PV 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 #: _____

(Continued)

CT Standardized Solar PV Permit Application

Building Information (For Roof-Mounted Systems Only)

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

Building Height (in feet):_____

Is the building permitted? ☐ Yes ☐ No ☐ NA

If no, reason: _____

Are there other permits associated with this application? ☐ Yes ☐ No

Describe: _____

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)

☐ 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 Review Worksheet (if applicable)

☐ 9. Additional Information for Large Solar PV Systems (as Specified by the Municipality)

***NOTE:** Applicants should submit either Attachment 4 for roof-mounted systems OR Attachment 7 for pole/ground-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:_____

Instructions for ATTACHMENTS to the Connecticut Standardized Solar PV Permit Application

Please Complete the Application Form (pages 1-2) and provide ALL applicable Attachments based on the below instructions and examples for Attachments 2-7. Attachment 8 is a Structural Review Worksheet to be used if applicable, provided as a separate form. Additional information required by a municipality for large solar PV systems can be submitted as a 9th Attachment.

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_2 mitigation methods (If Necessary)

(Attachment 2 continued)

- 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)

Instructions for ATTACHMENTS to the Connecticut Standardized Solar PV Permit Application

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

- Racking System
  - Manufacturer of racking structure
  - Model
  - Type
- Flashing description
- 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 Review Worksheet (if applicable, see separate form)

- **NOTE:** This worksheet can be used by an installer to meet the requirements of a municipal building department if the department specifically authorizes its use for that purpose. It may also be used to supplement a structural review certification letter from a Professional Engineer, or for independent project purposes.

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 your municipality requires additional information to permit larger systems, specify the information needed as a 9th attachment to the application.

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