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### CT Standardized Solar PV Permit Application Supplement

Please fill in the following information and submit ALL applicable attachments.  Date:  General Description of Solar PV Array:			
		Syste	em Size (kW DC):
Solar	PV Mounting Information		
Mour	nting Type (roof, pole, ground, other-specify):		
Mour	nting System Manufacturer:		
Produ	uct Name and Model #:		
Build	ling Information (For Roof-Mounted Systems Only)		
Build	ing Type (e.g. house, shed, barn, slab):		
Build	ing Height (in feet):		
Is the	building permitted?  Yes No NA		
If no,	reason:		
Elect	rical Description		
Size (	amps) and type (phase, voltage) of electrical service:		
Ampe	erage of main breaker: Will the value of main breaker change? 🗌 Yes 🔲 No To:		
Rated	d amperage of the bus bar in the main panel:		
Туре	of interconnection (e.g. breaker-load side, supply-side interconnect):		
Elect	rical panel location:		
If load	d 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?		
	chments for application (See instructions on the next page. Example Attachments are available for download <a href="https://www.energizect.com/sunrisene">ww.energizect.com/sunrisene</a> )		
	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). See page 3 for documentation requirements.		
	9. Additional Information for Large Solar PV Systems (as Specified by the Municipality)		

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



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# Instructions for ATTACHMENTS to the Connecticut Standardized Solar PV Permit Application

Please Complete the Application Form (page 1) and provide <u>all applicable</u> Attachments based on the below instructions for Attachments 1-8. Attachment 8 is a Structural Evaluation to be completed <u>if required</u> 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 <u>www.energizect.com/sunrisene</u>.

#### Each Attachment—Subcontractor List and

#### Drawings — 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)

#### (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

## 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,
    - o 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 <a href="www.energizect.com/sunrisene">www.energizect.com/sunrisene</a>). This worksheet can be used by an installer to meet the Structural Evaluation requirements of a municipal Building Department if the 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
 Supplement 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.

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