



# Town of Orangetown

20 Greenbush Road, Orangeburg, NY 10962

Phone: (845) 359-8410 Fax: (845) 359-8526

## NYS Unified Solar Permit Application

Upon review and approval of this application and supporting documentation, the Town will issue a building permit for the solar PV installation described herein.

### **PROJECT ELIGIBILITY FOR UNIFIED PERMITTING PROCESS**

By submitting this application, the applicant attests that the proposed project meets the established eligibility criteria for the unified permitting process (subject to verification by the AHJ). The proposed solar PV system installation:

- |                              |                             |   |
|------------------------------|-----------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1. Has a rated DC capacity of 25 kW or less.  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 2. Is not subject to review by an Architectural or Historical Review Board. (If review has already been issued answer YES and attach a copy)  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 3. Does not need a zoning variance or special use permit.<br>(If variance or permit has already been issued answer YES and attach a copy)   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 4. Is mounted on a permitted roof structure, on a legal accessory structure, or ground mounted on the applicant's property. If on a legal accessory structure, a diagram showing existing electrical connection to structure is attached. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 5. The Solar Installation Contractor complies with all licensing and other requirements of the jurisdiction and the State.  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 6. If the structure is a sloped roof, solar panels are mounted parallel to the roof surface.  |

For solar PV systems not meeting these eligibility criteria, the applicant is not eligible for the Unified Solar Permit and must submit conventional permit applications. Permit applications may be downloaded here: [www.orangetown.com](http://www.orangetown.com) or obtained in person at 20 Greenbush Road, Orangeburg, NY during business hours, 8:00 am to 4:00 pm.

### **SUBMITTAL INSTRUCTIONS**

For projects meeting the eligibility criteria, this application and the following attachments will constitute the Unified Solar Permitting package.

- This application form, with all fields completed and bearing relevant signatures.
- Required permit fees as follows:
  - \$150.00 for first \$1,000.00 and \$18.00 for each additional \$1,000.00 of estimated construction value, payable to The Town of Orangetown
  - Separate check payable to The Town of Orangetown:
  - Residential Permits require a \$20 database fee
  - Commercial Permits require a \$190 database fee and \$30 stream maintenance fee
- Required Construction Documents for the solar PV system type being installed, including required attachments.

Completed permit applications can be submitted in person at 20 Greenbush Road, Orangeburg, NY during business hours, 8:00 am to 4:00 pm.

### **APPLICATION REVIEW TIMELINE**

The municipality will provide feedback within 15 business days of receiving the application.

### **FOR FURTHER INFORMATION**

Questions about this permitting process may be directed to Town of Orangetown Building Department at 845-359-8410.

**PROPERTY OWNER**

Property Owner's First Name	Last Name	Title
Property Address		
City	State	Zip
Section	Block	Lot Number

**EXISTING USE**

☐ Single Family    ☐ 2-4 Family    ☐ Commercial    ☐ Other

**PROVIDE THE TOTAL SYSTEM CAPACITY RATING (SUM OF ALL PANELS)**

Solar PV System: \_\_\_\_\_ kW DC

**SELECT SYSTEM CONFIGURATION**

Make sure your selection matches the Construction Documents included with this application.

<input type="checkbox"/> Supply side connection with microinverters	<input type="checkbox"/> Load side connection with DC optimizers
<input type="checkbox"/> Supply side connection with DC optimizers	<input type="checkbox"/> Load side connection with microinverters
<input type="checkbox"/> Supply side connection with string inverter	<input type="checkbox"/> Load side connection with string inverter

**SOLAR INSTALLATION CONTRACTOR INFORMATION**

Contractor Business Name			
Contractor Business Address	City	State	Zip
Contractor Contact Name		Phone Number	
Contractor License Number(s)		Contractor Email	
Electrician Business Name			
Electrician Business Address	City	State	Zip
Electrician Contact Name		Phone Number	
Electrician License Number(s)		Electrician Email	

Please sign below to affirm that all answers are correct and that you have met all the conditions and requirements to submit a unified solar permit.

Property Owner's Signature	Date
Solar Installation Company Representative Signature	Date

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## NYS Unified Solar Permit Application

### **SUBMITTAL REQUIREMENTS SOLAR PV 25KW OR LESS**

This information bulletin is published to guide applicants through the unified solar PV permitting process for solar photovoltaic (PV) projects 25 kW in size or smaller. This bulletin provides information about submittal requirements for plan review, required fees, and inspections.

### **PERMITS AND APPROVALS REQUIRED**

The following permits are required to install a solar PV system with a nameplate DC power output of 25 kW or less:

- a) Unified Solar Permit
- b) Building Permit
- c) Approval of the Fire Inspector may also be required.

### **SUBMITTAL REQUIREMENTS**

**In order to submit a complete permit application for a new solar PV system, the application must include:**

- a) **Completed Standard Permit Application** form which includes confirmed eligibility for the Unified Solar Permitting process. This permit application form can be downloaded at [www.orangetown.com](http://www.orangetown.com).
- b) **Construction Documents**: Construction Documents (2 sets) must comply with the NYS Uniform Code and be stamped and signed by a NYS Registered Architect or NYS Licensed Professional Engineer. The Town of Orangetown, through adopting the Unified Solar Permitting process, requires contractors to provide construction documents, such as the examples included in the "Understanding Solar PV Permitting and Inspecting in New York State" document which can be found at [nyserda.ny.gov/SolarGuidebook](http://nyserda.ny.gov/SolarGuidebook). Should the applicant wish to submit Construction Documents in another format, the submittal must include the following information:
  - Survey of property indicating location of proposed installation.
  - Manufacturer/model number/quantity of solar PV modules and inverter(s).
  - String configuration for solar PV array, clearly indicating the number of modules in series and strings in parallel (if applicable).
  - Combiner boxes: Manufacturer, model number, NEMA rating.
  - From array to the point of interconnection with existing (or new) electrical distribution equipment: identification of all raceways (conduit, boxes, fittings, etc.), conductors and cable assemblies, including size and type of raceways, conductors, and cable assemblies.
  - Sizing and location of the EGC (equipment grounding conductor).
  - Sizing and location of GEC (grounding electrode conductor, if applicable).
  - Disconnecting means of both AC and DC including indication of voltage, ampere, and NEMA rating.
  - Interconnection type/location (supply side or load side connection)
  - For supply side connections only, indication that breaker or disconnect meets or exceeds available utility fault current rating KAIC (amps interrupting capacity in thousands).
  - Ratings of service entrance conductors (size insulation type AL or CU), proposed service disconnect, and overcurrent protection device for new supply side connected solar PV system (reference NEC 230.82, 230.70).
  - Rapid shutdown device location/method and relevant labeling.

- c) For Roof Mounted Systems: A roof plan showing roof layout, solar PV panels and the following fire safety items: approximate location of roof access point, location of code-compliant access pathways, code exemptions, solar PV system fire classification, and the locations of all required labels and markings.
- d) Provide construction drawings with the following information:
- The type of roof covering and the number of roof coverings installed.
  - Type of roof framing, size of members, and spacing.
  - Weight of panels, support locations, and method of attachment.
  - Framing plan and details for any work necessary to strengthen the existing roof structure.
  - Site-specific structural calculations.
- e) Where an approved racking system is used, provide documentation showing manufacturer of the racking system, maximum allowable weight the system can support, attachment method to roof or ground, and product evaluation information or structural design for the rack.

## **PLAN REVIEW**

Permit applications can be submitted to The Town of Orangetown Building Department in person at 20 Greenbush Road, Orangeburg, NY and electronically to [OBZPAE@ORANGETOWN.COM](mailto:OBZPAE@ORANGETOWN.COM).

## **FEES**

### **Required permit fees as follows:**

Permit Fee: \$150.00 for first \$1,000.00 and \$18.00 for each additional \$1,000.00 of estimated construction value, payable to The Town of Orangetown

Separate check payable to The Town of Orangetown for GIS:

Residential Permits require a \$20 database fee

Commercial Permits require a \$190 database fee and \$30 stream maintenance fee

## **INSPECTIONS**

**Once all permits to construct the solar PV installation have been issued and the system has been installed, it must be inspected before final approval is granted for the solar PV system. You must contact the assigned building inspector at 845-359-8410 to schedule the required on-site inspections.**

Inspection requests received during regular business hours are typically scheduled for the next business day. If next business day is not available, inspection should happen within a five-day window.

In order to receive final approval, the following inspections are required:

**ROUGH INSPECTION:** During a rough inspection, the applicant must demonstrate that the work in progress complies with relevant codes and standards. The purpose of the rough inspection is to allow the inspector to view aspects of the system that may be concealed once the system is complete, such as:

- Wiring concealed by new construction.
- Portions of the system that are contained in trenches or foundations that will be buried upon completion of the system.

It is the responsibility of the applicant to notify the assigned inspector before the components are buried or concealed and to provide safe access (including necessary climbing and fall arrest equipment) to the inspector. The inspector will attempt, if possible, to accommodate requests for rough inspections in a timely manner.

**FINAL INSPECTION:** The applicant must contact the assigned building inspector when ready for a final inspection. During this inspection, the inspector will review the complete installation to ensure compliance with codes and standards, as well as confirming that the installation matches the records included with the permit application. The applicant must have ready, at the time of inspection, the following materials and make them available to the inspector:

- Copies of as-built drawings and equipment specifications, if different than the materials provided with the application.
- UL certificate

- Photographs of key hard to access equipment, including;
  - Example of array attachment point and flashing/sealing methods used.
  - Opened rooftop enclosures, combiners, and junction boxes.
  - Bonding point with premises grounding electrode system.
  - Supply side connection tap method/device.
  - Module and microinverter/DC optimizer nameplates.
  - Microinverter/DC optimizer attachment.

The Town of Orangetown has adopted a standardized inspection checklist, which can be found in the Understanding Solar PV Permitting and Inspecting in New York State document, found here: [www.orangetown.com](http://www.orangetown.com)

The inspection checklist provides an overview of common points of inspection that the applicant should be prepared to show compliance. If not available, common checks include the following:

The inspection checklist must be completed and certified by the design professional or third party inspection agency.

- Number of solar PV modules and model number match plans and specification sheets number match plans and specification sheets.
- Array conductors and components are installed in a neat and workman-like manner.
- Solar PV array is properly grounded.
- Electrical boxes and connections are suitable for environment.
- Array is fastened and sealed according to attachment detail.
- Conductor's ratings and sizes match plans.
- Appropriate signs are property constructed, installed and displayed, including the following:
  - Sign identifying PV power source system attributes at DC disconnect.
  - Sign identifying AC point of connection.
  - Rapid shutdown device meets applicable requirements of NEC 690.12.
- Equipment ratings are consistent with application and installed signs on the installation, including the following:
  - Inverter has a rating as high as max voltage on PV power source sign.
  - DC-side overcurrent circuit protection devices (OCPDs) are DC rated at least as high as max voltage on sign.
  - Inverter is rated for the site AC voltage supplied and shown on the AC point of connection sign.
  - OCPD connected to the AC output of the inverter is rated at least 125% of maximum current on sign and is no larger than the maximum OCPD on the inverter listing label.
  - Sum of the main OCPD and the inverter OCPD is rated for not more than 120% of the buss bar rating.

## **UNIFIED SOLAR PERMITTING RESOURCES**

The Town has adopted the following documents from the New York Unified Solar Permit process:

Unified Solar Permit Application, Unified Solar Submittal Requirements and Unified Solar Permit Field Inspection Checklist can be found at [www.orangetown.com](http://www.orangetown.com).

Understanding Solar PV Permitting and Inspecting in New York State document, which includes sample construction documents, inspection checklist, design review checklist, and labelling guide and can be found at <https://www.nyserda.ny.gov/-/media/NYSun/files/solar-guidebook.pdf>

## **DEPARTMENT CONTACT INFORMATION**

**For additional information regarding this permit process please contact the Building Department at 845-359-8410.**

