

# Solar (PV) Systems



## Barrington Hills Permit Submittal Requirements

- Permit Application
- All construction shall comply with the adopted building codes and ordinances
- Supply pictures of existing service meter, weather head & Panel board work space.
- Copy of manufacturer's data and installation instructions.
- A legible survey or site plan indication location of proposed solar array and distances from property lines and structures and any trenching that may be required for installation (if ground mounted).
- Ground mounted solar array requires ground rod and guarding from damage at the array and shown on drawings.
- Roof layout with roof access pathways.
- Structural Engineers letter with calculations, stamped, signed and dated.
- Single line diagram showing all electrical equipment in the installation. Include all of the following: meter, main panel, automatic transfer switch, generator panel (if applicable) and the generator. Show sizes, in volts and amperes, of all equipment. State the size of the generator in kilowatts and its main circuit breaker size. Show conduit size and type, number and size of wires (including grounding conductor) and wire insulation type. Supply side tap on meter or panel, tap box.
- Electric Load Calculations with panel schedules.
- All interior and exterior conduit, enclosures, back-fed breakers, and disconnects are properly labeled and marked in accordance with IFC and NEC
- Proper electrical grounding rods are connected to the ground bar in the utility meter and proper bonding from the street side of the water meter to the main service panel neutral bus.
- Proper clearances for the electrical panels shall be maintained per NEC 110.26
- Bonding of the water pipe system at the water meter & water heater(s). The water heater(s) shall be jumpered between the cold and hot water pipes with a jumper sized according to NEC Table 250.66, per NEC 250.104 (A)(1) and any metal gas piping shall be bonded, per NEC 250.104(B)
- All smoke alarms and CO alarms are required to be up to date and in proper working order.

This checklist is provided as a helpful guide for a building permit submission. While every effort has been made to include common requirements and considerations, it is not guaranteed to be comprehensive or exhaustive. The Village does not guarantee that this checklist is exhaustive.