



## **Photo Voltaic System Requirements for AB 2188 Expedited Review**

*The following criteria are intended for an expedited solar permitting process. If the proposed installation does not meet the following requirements, it must go through the standard review process.*

### **General requirements:**

- The system is 10 kW AC rating or less.
- The solar array is roof-mounted on a one- or two-family dwelling or accessory structure.
- The solar/panel/module arrays are not more than 10” above the roof surface, measured at right angles to the roof surface.
- The system is utility interactive and does not utilize battery storage.
- An electrical service change or upgrade is not being performed under the same permit application.

### **Plan requirements:**

- Plans must be complete, accurate and drawn to scale.
- The minimum paper size is 18” x 24” and the maximum paper size is 36” x 42”. (A maximum of (2) 8.5” x 11” sheets may be used if all information can be provided.)
- Provide three complete sets of plans with numbered pages and a sheet index (if needed).
- Electronic plan submittals may be sent to [CDBuildingCode@SantaBarbaraCA.gov](mailto:CDBuildingCode@SantaBarbaraCA.gov)

### **Information required on the plans:**

- The first sheet of the plans must contain the following:
  - Name, address and phone number of owner, engineer, architect or designer as appropriate
  - Address of proposed project with assessor’s parcel number and land use zone
  - A complete description of the scope of work as follows: “Install (x) kW solar photovoltaic system including solar array and (x) inverters mounted on (BUILDING NAME) as a supplemental electrical supply system connected to the utility supply through the service equipment.”
- A complete site plan showing the following:
  - All property lines and easements, include north arrow.
  - Existing structures with distances in between and from property lines (include patio covers, decks, trellises, pools, etc.)
  - Location of all proposed work
  - Distance between maximum height of proposed work and structure it is mounted on.
- Include plan details showing all structural elements including roof framing members affected (e.g., spacing and spans of roof joists), connectors and, if applicable, engineering calculations and design.
- Fire Safety Requirements:
  - Clear access pathways provided
  - Fire classification solar system is provided
  - All required markings and labels are provided
  - A diagram of the roof layout of all panels, modules, clear access pathways and approximate locations of electrical disconnecting means and roof access points

- Electrical Requirements:

- ❑ No more than four photovoltaic module strings are connected to each Maximum Power Point Tracking (MPPT) input where source circuit fusing is included in the inverter
  - No more than two strings per MPPT input where source fusing is not included
  - Fuses (if needed) are rated to the series fuse rating of the PV module
  - No more than one non-inverter-integrated DC combiner is utilized per inverter
- ❑ For central inverter systems: No more than two inverters are utilized
- ❑ The PV system is interconnected to a single-phase AC service panel of nominal 120/240 Volts AC with a bus bar rating of 225 Amps or less
- ❑ The PV system is connected to the load side of the utility distribution equipment
- ❑ An electrical plan showing the following:
  - Location of main service or utility disconnect
  - Total number of modules, number of modules per string and the total number of strings
  - Make and model of inverter(s) and/or combiner box if used
  - Equipment cut sheets including inverters, modules, AC and DC disconnects and combiners
  - Labeling of equipment as required by CEC, Sections 690 and 705
  - Specify grounding/bonding, conductor type and size, conduit type and size and number of conductors in each section of conduit
  - One-line diagram of system

### **Information Required on Electrical One-line Diagram:**

#### Equipment Information:

Main distribution / service – New or existing; busbar amps; Main OCPD amps; Interconnect OCPD amps

Inverter / Microinverter – Make and model; Max input DC volts; Nominal AC output amps; quantity

PV Meter (if used) - Make and model; voltage and amperage rating

AC and DC disconnects – location(s); voltage and amperage rating

Junction / Combiner Box – Make and model; NEMA rating

Modules - Make and model; quantity; voltage, wattage, fusing; quantity

#### Circuit Information:

Conduit – size and type

Circuit Wiring - In raceway or exposed; conductor size and type; temperature derating adjustments

#### Grounding Information:

Building Grounding Electrode – New or existing; size & length; conductor size and connection method

Equipment Grounding Conductor – In raceway or exposed; conductor size and type; AC or DC