



## City of Dixon

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# Residential Rooftop Solar PV

### Required documents:

- Completed application
- Two (2) sets of plans (11" x 17" size minimum)
- One (1) electronic set of plans (pdf)
- One Residential Load Calculation Worksheet
- Two or more photos to clearly show the current panel without the deadfront cover to verify compliance with CEC 705.12

### Required Information on the plans - One line diagram, to include:

- Conductor type and sizing
- Grounding type and sizing, minimum #8 AWG copper, /#6 AWG aluminum (system dependent)
- Conduit size and type
- Main panel main disconnect ampere rating and bus bar ampere rating
- Electrical calculations, PV power source short circuit rating
- PV equipment locations
- Equipment bonding points and sizes
- AC & DC disconnect locations
- Point of connection to existing electrical service panel
- Disconnect required at main panel – Some panels may require replacement/upgrade

### Roof/Site plan, (plan view) to include:

- Roof layout, including all pathways, points of access, previous solar installations and clearances
- Orientation arrow (i.e. North arrow)
- PV orientation

### Manufacturer's specifications:

- Information cut sheets on all components (highlight project specific information)
- Inverter specifications including model number and integrated disconnect
- Mounting system for panel installation (highlight project specific information)
- Mounting details and engineering
- Photovoltaic module information including:
  - a. Module listing info
  - b. Fire classification rating.
  - c. Open-circuit voltage (Voc)
  - d. Short-circuit current (ISC) and maximum fuse rating
  - e. Maximum power- panel wattage

**Note:** Access to the roof for any inspection is the responsibility of the owner or permit holder. A CAL-OSHA approved, extension ladder shall be provided for inspection. The ladder must extend a minimum of 3 feet above the roof.