

Residential Roof Mount PV Submission Checklist

- **Site Plan:** A site plan drawn to scale showing the property lines, location of dwelling, side yards, north arrow, location of the panels on the roof, total number of panels, location of electrical service, junction boxes, system disconnect and inverter.
- **Roof Plan:** A roof plan indicating the number of modules, location of modules, roofing material and fire access setbacks.
- **Single Line Electrical Diagram:** The single line diagram shall include the following:
 1. Array configuration
 2. Array wiring
 3. Combiner junction box
 4. Conductor sizes
 5. Conduit sizes
 6. Grounding conductor and equipment grounding specifications
 7. Inverter type and model number specified
 8. Location of equipment disconnect identified
 9. Size of electrical panel and or sub-panels
 10. Point of connection attachment method identified
- **PV Module, Inverter Specifications:** Specifications indicating the type of panels, weight, total voltage output, bonding requirements and recommended conductor and grounding sizes. Specifications for the type and size of inverter, and equipment disconnect.
- **Equipment Mounting Specifications:** Equipment specifications showing the various mounting details for both the panels and inverter with the specific mounting arrangement identified which is based upon the type of roof framing and roof covering. The mounting diagram must specify that the panel shall provide sufficient space to allow for the removal of debris and allow for water drainage.
- **Signage Requirements:** All PV equipment shall be properly signed in accordance with the installation instructions and applicable code year CEC requirements. Provide details of the various safety signage specified by the manufacturer and current code year CEC.
- **SMUD Interconnection Approval Letter:** A SMUD interconnection letter must be included at submittal.