



## PERMIT PROCEDURES FOR **RESIDENTIAL** SOLAR PHOTOVOLTAIC POWER SYSTEMS

### **GROUND MOUNTED SYSTEMS** (pole mount embedded in concrete footing)

#### Plans Required

- Detailed Site/Plot Plan with setbacks from array to all property lines. Show Well/Septic Locations
- Engineered plans/calcs for footing sizes and racking system based on following parameters:
  - Wind Exposure C, 95 mph
  - Seismic Design Category D
  - Soils Class 4 or Provide Soil Analysis
- Manufacturer's installation instructions for racking, grounding method, lugs, etc.
- Manufacturer's specification sheets for all electrical equipment (solar modules, inverters, disconnects, etc...)
- Line diagram showing solar array, inverter, disconnect, main breaker panel, utility meter, transformers, switchboards, battery back-up systems, conductor sizes, conductor type, etc.
- Other documents as required (flood elevation certificate req. in flood zone)

**Clearances:** \*Plot plan approval required from Planning and Environmental Health

### **ROOF MOUNTED SYSTEMS** (panels mounted on frame attached to roof framing)

#### Plans Required

- Detailed Site Plan clearly identifying which building array is on, and building elevation showing total height of building and array in feet.
- Manufacturer's installation instructions for rack, grounding method, lugs, etc. and details showing the connection to the roof framing.
  - Engineer/architect design is required if:
    - The panel and support framing exceed 3.0 pounds per square foot,
    - The panel to roof plane angle exceeds 40 degrees from the horizontal
    - The roof has a heavy roof cover such as tile.
- Line diagram showing solar array, inverter, disconnect, main breaker panel, utility meter, transformers, switchboards, battery back-up systems, conductor sizes, conductor type, etc.
- Manufacturer's specification sheets for all electrical equipment (solar modules, inverters, disconnects, etc...)
- Other documents as required.

**Clearances:** \*Zoning Clearance required from Planning Division.

**NOTES:** All installations shall comply with the latest editions of the 2019 California Electrical Code (NEC), specifically Article 690, for Photovoltaic Power Systems and the 2019 California Building Code (CBC) Chapter 16, Structural Design Requirements.

All equipment and components shall be listed and labeled by Underwriters Laboratories or other recognized agency.