



TOWN OF LOOMIS

3665 Taylor Road, Loomis CA 95650

PHOTOVOLTAIC REQUIREMENTS

Requirements for Permit Submittal

Before approval and issuance of a permit for a Solar Panel/Photovoltaic System can be issued the applicant shall provide three (3) sets of plans with two (2) sets of equipment specifications. Residential Solar Arrays drawn on a minimum size of 11x17 plan paper and the designers name with signature. Commercial Solar Arrays will be required to be drawn to scale and are fully dimensioned, legible, and include licensed professional's name with wet stamp and signature.

Residential Roof mount Solar Systems over **10kac** or involving Energy Storage Systems, Ground mount Systems, or Commercial Solar Systems require routing to the local Fire district. A signed contract between Contractor and Owner is needed. Contractor must have a current Town of Loomis Business License.

Cover Sheet

1. Project Address
2. Current California Code Design Criteria
3. Owner's name, address, phone number
4. Name and phone number of the person preparing the plans
5. Scope of work statement
6. Sheet index indication each sheet title and number
7. Legend for symbols, abbreviations and notations used in the plans
8. State the KW rating and number of modules
9. Identify the occupancy use and construction type of the building.
10. Identify if building has fire sprinklers

Other required information on additional plan sheets

1. Provide a simple plot plan showing:
 - (a) Property line locations
 - (b) Approximate location of all structures with a directional North arrow
 - (c) The location(s) of the panel installations with Code compliant fire pathways
 - (d) The main service location
 - (e) The locations of all equipment and disconnects
2. Provide a roof plan showing:
 - (a) Ridges, hips and, valleys
 - (b) Show fire pathways in compliance with the 2022 CRC section 324
 - (c) Show percentage of coverage of the roof area
 - (d) Show points of roof mount connections
 - (e) Roofing material



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3. Provide framing cross-sections showing roof slope, size, spacing, span and direction of existing rafters. Structural calculations (Stamped and wet signed by a California Licensed Design Professional) are required for tile roofs or systems involving panels which are integrated into roof tiles.
4. Indicate the style, diameter, length of embedment of bolts or other approved fastener.
5. Provide a single line drawing of the electrical installation which includes the following
 - (a) PV panel layout
 - (b) PV power source short circuit current rating
 - (c) Conductor size
 - (d) Conductor type
 - (e) Conductor locations and lengths of runs
 - (f) Wiring methods
 - (g) Grounding
 - (h) Inverter(s)
 - (i) Disconnect(s)
 - (j) Battery(s) (if applicable)
 - (k) Sub-panel(s) (if applicable)
 - (l) Point of connection to the existing electrical service
 - (m) Size of the main electrical service (buss and main breaker)
11. Calculation pages
 - (a) Electrical calculations for short circuit current (ISC)
 - (b) Open circuit voltage and temperature coefficient (VOC)
 - (c) Any voltage drop or temperature factors.
 - (d) Point of connection calculations
12. A load calculation will be needed if service panel is changed out or main circuit breaker reduced.
13. Provide signage requirements complying with CEC 690
14. Specification sheets- manufacture information/engineering and UL listing
 - (a) Solar modules
 - (b) Rails/mounting brackets
 - (c) Inverter(s)
 - (d) Any equipment used in the installation

Please provide on your Building Permit Application scope of work, including;

- 1. Number of panels**
- 2. Size in AC Kw**
- 3. Rooftop or ground mount**
- 4. Residential or Commercial**

If you have any questions regarding your PV system,

please contact our Building Department at (916) 824-1513 Building@loomis.ca.gov