



TOWN OF LYONS PHOTOVOLTAIC SOLAR SYSTEM PERMIT REQUIREMENTS

Permits are required for all photovoltaic (PV) systems. Permit submittals shall include:

- General permit application form completed;**
- Completion of Town Documents:**
Provide the Following Documents to Town of Lyons Staff;
 - Customer-owned generation interconnection agreement
 - Net metering application for interconnection
 - Net metering certificate of completion
- Site plan that locates all equipment on the drawing:**
 - 8½" x 11" plan is acceptable, show PV array, combiner/junction boxes, disconnects, inverters, meter and service panel/tie-in locations, show general footprint of structure and relation to property lines, show a roof plan with location and physical size of all PV panels, b-vents, attic vents, and plumbing vents.
- Manufacturer's specification sheets for the PV panels and the PV inverter;**
- Complete 3 line electrical diagram:**
 - Electrical specifications shall indicate;
 - System size (DC - STC "nameplate" rating);
 - Module manufacturer and model number;
 - Module specs (@ STC) including VOC, VMP, ISC, and IMP;
 - Array specs (@ STC) show max VOC (w/ temp corrections), VMP, ISC, and IMP;
 - Number of strings;
 - String fuse rating (if appropriate);
 - Current carrying conductors show size and type (ie. USE-2);
 - Grounding (equip grounding conductor) indicate size and type;
 - Over current protection/disconnects with voltage rating, current rating, and indicate if "integrated" in inverter;
 - Inverter, note manufacturer, model number, rated AC output (wattage), AC voltage, and max AC current;
 - Grid interconnection location shall show AC load panel with back feed breaker rating (voltage and amperage), panel rating (bus bar rating and main breaker rating), and line / load side tap.

- **Mounting / racking system details:**
 - Shall include manufacturer's spec sheets with uplift capacity for wind loads (120 mph, 3 second gust), snow loads (30 psf), attachment details (type, size, and spacing of fasteners),
 - Colorado stamped engineer's verification letter for; Custom racking, a site specific engineered design is required.
- **Structural information:**
 - Size, type and spacing of roof framing members, type and thickness of roof sheathing, type and number of layers of roofing materials, and indicate whether array is flush or tilt mounted. Specify method of locating framing members. Additional information or engineering may be required for unique situations.
- **Installation of the electrical wiring shall be performed by a licensed electrician.**
 - The permit will not be issued without a licensed electrician indicated on the permit.

The contractor shall call for final inspection for the project when the system is complete.

Please note; Documents and other information can be found at www.townoflyons.com, or at <http://www.townoflyons.com/building-department/158-yoocarousel/469-electrical-net-metering-and-related-documents>.