



SOLAR – PHOTOVOLTAIC (PV) SYSTEMS

- This handout is intended only as a guide. It shall not be considered a complete set of requirements.
- Materials and installation must comply with the current Minnesota State Building Code and the manufacturers' installation specifications for each product.
- A building permit is required for solar panel systems (also known as photovoltaic systems).
- **Check with the municipality office to determine if there are local ordinances regarding solar panels.**
- A separate electrical permit is required.

BUILDING Permit Submittal shall include:

- Building Permit Application**, completed in its entirety, including signature and valuation.
- Documentation:**
 - **Location and roof plans (if roof-mounted)**, including information on spans and roof construction materials so loading, fire resistance and ridge setbacks can be verified.
 - **A site plan or Certificate of Survey**, drawn to scale and dimensioned, identifying system location and dimensions with measurements from the adjacent lot lines; as well as all lot lines, setbacks, easements, adjacent street names, all structures on the property, septic system location (if applicable), and all buried utilities.
 - **Copy of signed interconnect agreement.**
 - Land use permit if not a roof top solar.
 - Septic compliance within the last 10 years.
 - Detailed system diagram of all components, highlighting system grounding and bonding.
 - Basic line drawing that shows all the devices on the system including the solar module, DC disconnect, inverter, sub-panels, AC disconnect, main service meter, and wire sizes and connections. Specify manufacturer, model numbers, and ratings.
 - Specific locations and labels used for compliance with NEC 690 and UL 969.
 - Rack mounting details and calculations.
 - Battery storage location and venting (if applicable).
 - Label and listing specifications for the PV module, inverter, and rack. Panels shall be listed for compliance with UL 1703 and inverters shall be listed for compliance with UL 1741 with additional listing for grid connection (if applicable)
 - Property owner waiver if self built.
- Additional information may be required by the plan reviewer.

POSTED prior to start of work - **ACCESSIBLE** to the inspector

ROOFTOP APPLICATION – NON-RESIDENTIAL:

Whenever solar arrays are installed the licensed design professional shall notify the Fire Code Official

Rooftop solar arrays installed on detached, non-habitable Group-U structures including parking shade structures, carports, solar trellises and similar structures shall comply with the Minnesota Fire Code, the Minnesota Electric Code and the manufacturer's instructions only. They are exempt from the Minnesota Building Code requirements listed below (MBC 1305.3111.3).

GROUND-MOUNTED PANELS AND MODULES

BEFORE YOU DIG, contact Gopher State One Call to locate buried utilities: (651) 454-0002 or (800) 252-1166. www.gopherstateonecall.org.

*Photovoltaic panels and modules shall be listed and labeled in accordance with UL 1703.

*Photovoltaic panels and modules shall be installed in accordance with the manufacturer's installation instructions.

*A clear, brush-free area of 10' shall be required.

*Panels are subject to minimum fire separation distances.