MESA COUNTY **COMMUNITY DEVELOPMENT DEPARTMENT**
BUILDING DIVISION

200 S. Spruce Street • PO Box 20,000-5005 • Grand Junction, Colorado • 81502
Telephone: 970.244.1631 • www.mesacounty.us/building

Mesa County Photovoltaic Guide

Applicable Codes: 2018 IBC, IRC, IEBC, IFC, and 2023 NEC

The following items must be provided for all PV system applications (as applicable):
- Valuation - **SHALL INCLUDE ALL LABOR AND MATERIALS** broken out as follows:
  - Modules to inverters
  - Remainder of electrical work (ex. generator, AC wiring, service upgrade, ESS, etc.)
  - Any required structural alterations
- Structural certification report is required for verification that the existing roof framing will safely support the array. Design criteria shall include wind speed (115 mph) and snow loads by elevation (Adopted Codes and Regulations).
- Three-line diagram showing all conductor sizing and insulation types, overcurrent protective devices and conduit sizing and types.
- The source connection being used.
- The method being used to determine the required ampere rating of busbars.
- All specification sheets of listed compatible components must be provided.
- Roof layout showing access, pathways, setback at ridge, total roof area, and total array area. (sq. ft.)
- DC circuits in buildings will require metal raceways and labeling of "PHOTOVOLTAIC POWER SOURCE".
- A rapid shutdown function to reduce shock hazard for firefighters is required.

All commercial and ground mount photovoltaic system designs require structural, foundation, and electrical drawings stamped and signed by a Colorado Professional Engineer.

Commercial systems to be installed within the city limits of Grand Junction and unincorporated areas of Mesa County require a planning and fire clearance.

For residential systems a residential planning clearance is required prior to issuance on all ground mount solar permits, regardless of jurisdiction. Roof mount systems require a residential planning clearance prior to issuance if installing the system in De Beque, Collbran, or Palisade