



BILL FLOREA, DIRECTOR

# Boone County Resource Management

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PLANNING – INSPECTIONS – ENGINEERING

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## GUIDELINES TO RESIDENTIAL SOLAR PHOTOVOLTAIC PERMITS

This serves only as a guide for residential permits and does not contain all requirements of Boone County codes.

Building permits are required for all installations of Solar PV systems

Please remember the following when installing a PV system in Boone County:

- Roof to be structurally sound and have ten+ years of life remaining – most PV systems have a ten-year or more warranty
- System and all electrically conductible components such as metal enclosures must be continually grounded (electrically bonded)
- Inverter output circuit protection device (point of connection to AC system breaker) is sized based on minimum of 125% of maximum current rating (NEC 690.9)
- Sum of PV and Main Breakers not to exceed 120% of bus rating
  - Example: 200 amp bus rating x 1.20 = 240 amp or 40 amp maximum breaker for PV on opposite end of bus from main (NEC 705)
- Contact local utility company before obtaining a permit from Boone County
- Inform local Fire Protection District of solar PV system install
- Rapid shutdown required and readily accessible outside building (NEC 690.12)
- Installation company information must be provided on the permit application including name of company, contact person, address and phone number.
- Follow all applicable building codes. For current code information see our website at: <https://www.showmeboone.com/resource-management/inspections/>
- Requirements and inspections may vary depending on installation type, ie: rooftop, ground, or pole installation. For example: A ground mounted system may require a footing inspection.
- Please note: the plan review process will take a minimum of 10 days from the time all required documentation is received by our office. (IE: if you submit revised plans as requested during the review process, please allow an additional 10 days from the date the resubmittal is received in our office)
- Incomplete permit applications will not be accepted.
- 24-hour notice is required on all inspections; a solar representative must be on site during inspection.