

Solar Project Requirements

Valid Contractor Registration

Solar installations in the City of Rock Island should be performed by General and Electrical contractors that have a current registration with the City. General contractors are responsible for the installation of the solar system. Electrical contractors are responsible for the electrical distribution work. General and electrical contractors must meet all requirements to obtain a valid registration.

Permit Application

Solar system installations require 2 permits - Addition/Remodel and Electrical. An Addition/Remodel permit is applied for by the general contractor and should include both general and electrical job valuations, as it oversees the entire scope of work. The electrical permit is applied for by the electrical contractor and should only include the job valuation for electrical work. Permit applications must include the company name of the registered contractor in the applicant section.

Plan Submittal

- Signed and completed Addition/Remodel permit application
 - Number of panels indicated
 - Building and electrical valuation provided
 - Electrical contractor is listed
- Signed and completed Electrical permit application
- Proof of authorization from property owner for solar panel installation – i.e., signed contract.
- Electronic copy of structural and electrical plans signed/sealed by a licensed engineer for review. More information regarding requirements and applicable codes provided on page 2.

All plans require the approval from both Zoning and Building divisions. Final inspections are required and should be scheduled at the same time for both building and electrical. A company representative must be present at the time of inspection. All solar system installations should be installed in accordance to the submitted plans.

Plan Requirements & Applicable Codes

Current applicable codes for the City of Rock Island; **2021 IRC, 2021 IBC, 2021 IFC, 2020 NEC.**

Residential Submittals are limited to 600 volts D.C. (NEC 690.7)

City of Rock Island Zoning requirements apply, when applicable

- Site Plan or Roof Plan showing the solar array layout **(IFC 605)**
- Roof Mounted Arrays: Show access space dimensions **(IFC 605.11-605.11.2)**
- Indicate any egress windows adjacent to proposed arrays
- Indicate type of array;
 - Photovoltaic panels and modules **(must be listed - UL 1703)**
 - Photovoltaic Shingles **(listed – UL 1703 & roof pitch 3:12 or greater)**
 - Roof Mounted **(IBC 1607.12.5.1 – 1607.12.5.4)**
 - Ballasted roof mounted systems **(roof pitch 1:12 or less)**
 - Ground Mounted **(NFPA 70 – NEC 690)**
- Provide one-line diagram for electrical component path, with all components
- Size of each solar array (scaled) – **(limited to 150' x 150')**
- Indicate existing electrical service panel size and ampacity of busbar **(NEC 705.12(B)(2) ***
does current service meet requirements?
- Indicate all amperage and voltage designations **(Existing and New)**
- Indicate all panel, disconnect, inverter, combiner box locations and show required access
- Indicate bonding and grounding size, location, and path
- Indicate wire schedules and conduit size
- Indicate rapid shut down location
- Indicate signage details and location
- Indicate whether storage batteries are to be used
- Provide all equipment cut sheets and listing
- Provide all manufacturer installation instructions

NOTE: In order to be eligible for solar incentives, rebates or other state offered programs, the State of Illinois Commerce Commission, Title 83, Chapter 1, Subchapter C, Part 468 requires electrical contractors to have their Distributed Generation Installer Certification and provide that number as part of any rebate program.