

# Commercial Solar Photovoltaic Systems (Solar Panel/Array)

## Greenville County

Greenville County Square 301 University Ridge, Suite 4100 Greenville, SC 29601 - 3686 864 - 467 - 7060

All systems shall be constructed in accordance with the following referenced ICC Codes and Sections:  
**IBC 3111, IFC 1205 and NEC Article 690.**

1. Go to eTRAKit and Create an Account.

<https://grvlc-trk.aspgov.com/eTRAKiT/login.aspx?It=either&rd=~/PermitApplication/step1.aspx&activityNo=>

2. **Plan Requirements** (See Commercial Plan Review Submittal Documents on-line) submittal must include:

<https://www.greenvillecounty.org/BuildingSafety/Forms.aspx>

**(All Plans shall be prepared by a SC Registered Engineer)**

**In addition to standard plan requirements, verify the following information has been provided:**

**Site Plans** if free-standing panels/arrays are used or **Roof Plans** if being installed on an existing building:

- Show location, dimensions, layout and Fire Separation Distances for all equipment
- Access and Pathways as well as other requirements of SCFC 1205
- Setbacks and screening per Codes and Zoning
- Vegetation Control per SCFC 1205

**Electrical Plans** including single line, panel diagram, disconnects, switches, etc.

- Equipment, devices, and conduits shall be labeled in accordance with NEC Article 690.5
- All components shall bare a U.L. Label or equivalent approved testing laboratory
- All interactive utility inverters shall be equipped with integrated ARC-fault and integrated rapid shutdown per NEC 690.5 and SCFC 1205
- Maximum voltage per NEC 690.07 (A-E) and Circuit sizing per NEC 690.8

**Structural Building and Fire Plans:**

- Show compliance with loads per SCBC 3111 (NO reductions allowed)
- Provide Roof Fire Classification Information per SCBC 3111
- Anchoring per SCBC 3111 and Chapter 16
- Heat Vents per SCFC 1205

3. A SC Engineer shall inspect and provide a sealed and signed **Structural Review Letter** based on an Actual field inspection. If no structural work is required, the letter shall contain the structural design criteria and the following language: “As per the results of the field-inspection and structural analysis, the existing roof and building are capable of supporting the proposed solar panel installation as designed per the 2021 SCBC structural requirements.”

4. Provide an approved and signed Interconnect Letter from Power Company