Solar Photovoltaic Panels/Modules Permit Requirements
For Commercial Buildings including Multi-Family Residential

Greenville County
Greenville County Square * 301 University Ridge, Suite 4100 * Greenville, SC 29601 - 3660 * 864 - 467 - 7060

**Solar Voltaic Systems:** The total components and subsystems that, in combination, convert solar energy into electric energy suitable for connection to a utilization load.

All systems shall be constructed in accordance with the following referenced ICC Codes and Sections: 2018 IRC 324.1 through 324.6.1 and M2301, and 2017 NEC Article 690.

1. Complete the **Commercial Building Permit Application**, **Zoning Application**, **Electrical Permit Application**

2. Tax Map No. can be obtained from the owner of the property, the landlord, through Real Property Services (864-467-7300) or County website; (www.greenvillecounty.org/vrealpr24/clrealprop.asp.)

3. Provide a SC Engineer sealed and signed Site Plan if free standing panels are used. A site plan is not required for panels within the building footprint (on roof of existing building).

4. Submittal Requirements in addition to a completed Commercial Building, Zoning, and Electrical Permit Applications:

- Single Line Electrical Drawing (Same drawing submitted to Power Company)
- “Eyes on” Statement including roof structural components and condition. The statement is to reflect existing condition of structure and the dimensions and spacing of the members. The statement is to be prepared by a SC Licensed Structural Engineer.
- A SC Sealed and Signed Structural Review including plan view of panel system. The structural evaluation letter/review shall be based on the “eyes on” field inspection. Structural letter shall contain the structural design criteria and the following language: “As per the results of the structural analysis and the “eyes on” field inspection, the existing roof and building is capable of supporting the proposed solar panel installation as designed and complies with the 2015 IBC structural requirements”. The 10 lb. per square foot snow load shall not be reduced. Two copies are required. A preliminary review is encouraged and can be scheduled by contacting Ira Barrett Principal Plan Examiner at 864-467-7079.
- Approved and signed Interconnect Letter from Power Company  
  (The above items checked will be reviewed, initialed, and scanned into permitting software)

5. Compliance requirements:

   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. NEC 690.5
   
   Maximum voltage per NEC 690.07 (A-E)
   
   Circuit sizing per NEC 690.8

6. The panel installation will be inspected to verify setbacks, anchors, electrical compliance, and any other applicable code issue.

(6/5/2018 hwy/Revised 01/13/2020)