



TOKI
Solar Panel Policy

Policy Title: Roof Top Solar Panels
Policy number: 2021-07-01
Effective Date: July 1, 2021
Approved By: Bruce D. Spicher

Purpose:

To ensure that all solar panel installations are designed for high wind installation, so that the roof can structurally support the installation, and that firefighter access is provided.

Requirements:

- Plans and all required documentation shall be submitted through your project portal
- Plans shall include the following:
 1. A SC licensed structural engineer shall complete a structural analysis and design.
 - a. Method of attachment
 - b. Type of array
 - c. Uplift calculations
 - d. The type of room framing detail of the additional roof framing is required.
 - e. Manufacture of the racking system
- Roof Plan
 1. Show setbacks of the array system and location
 2. Pitch of the roof
 3. Orientation of the property
 4. Provide at least one elevation drawing showing the array system
- Electrical Plan
 1. Location
 2. Inverters
 3. Modules
 4. Switches
 5. Panels
 6. Wire type and sizes
 7. Conduit type and sizes
 8. Ampacity calculations
 9. All data sheet
 10. All specification sheets
 11. Fire classification of the system
 12. All electrical components are required to be mounted to the design flood elevation; this includes EV chargers.