SolarAPP PV Eligibility 10/29/2024
System
New rooftop residential retrofit PV systems
Installed by contractor with all licenses required by jurisdiction
Each residence must have a unique utility meter
Electrical
The project must comply with the applicable National Electric Code
600V maximum series string voltage
Single phase 240V or 208V residential utility services only
Aluminum wires are only allowed for backup initiation device feeders
Must use 600V rated PV wire, or equivalent, for exposed, rooftop DC conductors
Must use 90 deg C rated insulated wire
Max 2 DC strings in parallel
Inverter output circuit conductors must be THWN-2, or listed NM
Terminals must be rated to 75 deg C, labeled for use with Cu wires, and accept minimum 8 AWG wire
Microinverters or AC Modules branch circuit overcurrent protection device must be rated for a maximum of 20A
Permitted to install on up to or equal to 400A service
Permitted to install on up to or equal to 200A service disconnect
Permitted to install on up to or equal to 225A busbars
May include an existing PV system with one (1) module type and multiple PV inverters
May install only 1 PV module model
May install up to 2 inverters for string inverters
May install up to 1 inverter model for microinverters and AC modules
Conduit may not be schedule 80 PVC
Modules and inverters must be listed in the California Energy Commission’s database of approved equipment
Energy storage systems and batteries must be listed in the California Energy Commission’s database of approved equipment
Rapid shutdown cannot be satisfied using the method: No exposed wiring or conductive parts [690.12(B)(2)(3)]
No trenching allowed
May include up to two (2) points of interconnection to premises wiring systems
No new loads, only new monitoring circuits are allowed
Equipment listed for continuous use at 100% of its rating is not considered
May install only 1 racking system model
Height of rooftop conduit > = 7/8"
Flat plate PV modules only
Structural
Detached one- and two-family dwellings and townhomes not more than three stories above grade plane in height with a separate means of egress
Accessory structures to one- and two-family dwellings and townhomes not more than three stories above grade plane in height
Penetrations within 4 ft of the fire-rated property line on the roof of a townhome shall not be permitted.
Installations in multi-family structures or R-2 occupancies shall not be permitted.
Installations on mobile homes governed by Heath and Safety Code and/or Housing and Urban Development regulations shall not be permitted.
The project must comply with the applicable International Residential Code
PV system + hardware weight is less than or equal to 4.0 psf
No ground mounted systems
No carports or non-permanent structures
No modifications, alterations, or upgrades to the structure
At least 20% of each tilt-up mounted array must be contained under 2 feet above the roof
The new system must be installed on a permitted structure
No wood shake or wood shingle roofing allowed with a new rooftop PV system
Limit of 10" above the roof for flush mount PV arrays on pitched (>2/12) roof surfaces
Metal roof or low-slope roof installations in areas with > 15psf snow load are not supported
Fire
The project must comply with the applicable International Residential Code