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SOLAR (PV) SYSTEM REQUIREMENTS FOR SINGLE-FAMILY RESIDENTIAL AND ADU BUILDINGS

SOL-03

Per the 2022 California Energy Code, Section 150.1(c)14, all newly constructed single-family residential buildings including new detached accessory dwelling units (ADU's) shall have a newly installed solar photovoltaic (PV) system.

Exception: Per Exception 2 of California Energy Code, Section 150.1(c)14, a photovoltaic (PV) system is NOT required when the minimum required size of the PV system is less than 1.8 kW_{dc}. Therefore, a photovoltaic (PV) system is NOT required for a single-family residential building or an ADU with a floor area of 733 square feet or less.

PV submittal for single-family residential building shall comply with Residential Photovoltaic Checklist, SOL-01, and the following requirements:

A. Required Permits as applicable:

1. Building Permit
2. Electrical Permit

B. Single Family Building is any of the following:

1. A residential building of Occupancy Group R-3 with two or fewer dwelling units
2. A building of Occupancy Group R-3, other than a multi-family building or hotel/motel building
3. A townhouse
4. A building of Occupancy Group R3.1
5. A building of Occupancy Group U when located on a residential site

C. Minimum required size of PV system (in Climate Zone 8)

$$kW_{PV} = [(CFA \times A) / 1000] + (N_{DU} + B)$$

where:

- kW_{PV} = kW_{dc} size of the PV system
CFA = Conditioned floor area
N_{DU} = Number of dwelling units
A = 0.586 (per Table 150.1-C)
B = 1.37 (per Table 150.1-C)