

PHOTOVOLTAIC REQUIREMENTS - RESIDENTIAL COMPLIANCE FORM

All single-family residential buildings shall have a newly installed photovoltaic (PV) system or newly installed PV modules meeting the minimum qualification requirements specified in Joint Appendix JA11. The annual electrical output of the PV system shall be no less than the smaller of a PV system size determined using Equation 150.1-C, or the total solar access roof area (SARA) multiplied by 18 for steep-sloped roofs or multiplied by 14 for low-sloped roofs.

This document shall be filled out and a PV plan that graphically shows all design features shall be incorporated into the plan set along with all required energy forms.

To learn more about the 2025 Building Energy Efficiency Standards, please visit energy.ca.gov.

Project Address: _____ Permit Number: _____

APPLICANT INFORMATION:

Name: _____ Phone Number: _____

Address: _____ Email Address: _____

OWNER INFORMATION:

☐ Check here if owner is the applicant

Name: _____ Phone Number: _____

Address: _____ Email Address: _____

METHOD OF COMPLIANCE:

☐ This permit meets an exception to Title 24, Part 6, Section 150.1(c)14. By signing below I am affirming that I have attached sufficient substantiation that complies with Exception _____. (see exceptions page 2)

Sign Here: _____ **Date:** _____

☐ By signing below I am affirming that I am aware of the minimum PV requirements and that a PV plan has been incorporated into the plan set that satisfies these minimum requirements.

Sign Here: _____ **Date:** _____

Equation 150.1-C Annual Electrical Output
$kW_{PV} = (CFA \times A)/1000 + (NDwell \times B)$ where: kW_{PV} = kWdc size of the PV system CFA = Conditioned floor area of the building in sq. ft. $NDwell$ = Number of dwelling units A = Adjustment factor from Table 150.1-C B = Dwelling adjustment factor from Table 150.1-C

Table 150.1-C CFA and Dwelling Adjustment Factors		
Climate Zone	A – CFA	B – Dwelling Units
13	0.894	1.51
14	0.741	1.26
16	0.590	1.22

Conditioned Floor Area (CFA): _____ sq. ft.

Number of Dwelling Units (NDwell): _____

Adjustment Factor from Table 150.1-C (A): _____

Adjustment Factor from Table 150.1-C (B): _____

**PV Minimum Required
Annual Electrical Output**

0 _____ kWdc

PHOTOVOLTAIC REQUIREMENTS - RESIDENTIAL EXCEPTIONS

Exception 1 to Section 150.1(c)14: For steep slope roofs, SARA shall not consider roof areas with a northerly azimuth that lies between 300 degrees and 90 degrees from true north. No PV system is required if the SARA is less than 80 contiguous square feet.

Exception 2 to Section 150.1(c)14: No PV system is required when the minimum PV system size specified by Section 150.1(c)14 is less than 1.8 kWdc.

Exception 3 to Section 150.1(c)14: Buildings with enforcement-authority-approved roof designs, where the enforcement authority determines it is not possible for the PV system, including panels, modules and components and supports and attachments to the roof structure, to meet the requirements of the American Society of Civil Engineers (ASCE), Standard 7-16, Chapter 7, Snow Loads.

Exception 4 to Section 150.1(c)14: For buildings that are approved by the local planning department prior to January 1, 2020 with mandatory conditions for approval:

- a. Shading from roof designs and configurations for steep-sloped roofs, which are required by the mandatory conditions for approval, shall be considered for the annual solar access calculations; and
- b. Roof areas that are not allowed by the mandatory conditions for approval to have PVs shall not be considered in determining the SARA.

Exception 5 to Section 150.1(c)14: PV system sizes determined using Equation 150.1-C may be reduced by 25 percent if installed in conjunction with a BESS. The BESS shall meet the qualification requirements specified in Joint Appendix JA12 and have a minimum cycling capacity of 7.5 kWh as defined in Joint Appendix JA12.