

Energy Code Compliance Margins for Proposed Building Energy Building Code Amendment

Building Type	Climate Zone 3, West County EDR ¹ /TDV ² Margin	Climate Zone 12, Central and East County EDR ¹ /TDV ² Margin	Cost-effective Design Options
Single-Family Homes¹	9	11	Install second heat pump system, or install battery storage and additional solar.
Accessory Dwelling Units (ADUs)¹	Not yet proven cost-effective. No change recommended.	6.6	Only for Climate Zone 12, Install second heat pump system, or install battery storage and additional solar.
Low-rise Multifamily (up to 3 habitable stories)²	10%	11%	More heat pump system(s), or install battery storage and/or additional solar.
High-rise Multifamily Residential (4 or more habitable stories)²	4%	4%	Would need additional solar above current code requirement(s).
Non-residential (Office, Retail, and Hotel)₂	5%	4%	Would need additional solar above current code requirement(s).

¹ **Energy Design Rating (EDR)** - Rates the building energy efficiency based on hourly source energy use for the home measured in kBtu/ft²-yr. It includes energy use for the building envelope, indoor air quality (IAQ), HVAC, water heating and unregulated loads. The metric approximates the building's greenhouse gas (GHG) emissions to support California's GHG reduction goals.

² **Time Dependent Valuation (TDV)** - Is a metric constructed from a long-term forecast of hourly electricity, natural gas, and propane costs to building owners consistent with the latest California Energy Commission (CEC) forecasts and outlook for California's energy sectors. It includes energy use for the building envelope, indoor air quality (IAQ), HVAC, water heating and unregulated loads. This also include PV, battery storage and precooling, when added.