

Energy Code Compliance Margins for Proposed Building Energy Building Code Amendment

Building Type	Climate Zone 3, West County EDR1 ¹ /SE ² Margin	Climate Zone 12, Central and East County EDR1 ¹ /SE ² Margin	Cost-effective Design Options
Single-Family Homes¹	9 EDR1 Points	11 EDR1 Points	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 EDR1 Points	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 efficiency above current code requirement(s).

¹ **Energy Design Rating (EDR1)** - 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 **Source Energy (SE)** - The log run marginal source energy of fossil fuels that are combusted as a result of building energy consumption considering the long-term effects of Commission-projected energy resource procurement. For a given hour, the value in that hour for each forecasted year is averaged to establish a lifetime average source energy.