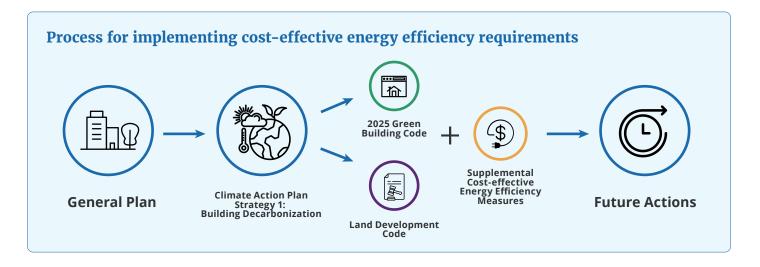


# Transitioning to Healthy and Sustainable Buildings Cost-Effective Energy Efficiency Requirements

## **About the Cost-Effective Energy Efficiency Requirements**

The City's General Plan calls for improved building energy efficiency and the City's Climate Action Plan includes Measure 1.2 to decarbonize new building development. The 2025 Green Building Code (CALGreen) contains various new requirements for building construction.

In addition to these minimum mandatory building code requirements, the City proposes to include supplemental cost-effective energy efficiency requirements in the 2025 Building Code Update, as well as the 2025 Land Development Code Update.



#### **Timeline**











### 2025 Building Code: Statewide 2025 Green Building Code (CALGreen)

Measures	Applicability	Description
Water Heating	Multi-family Residential Hotels New Construction	Central systems are prescriptively required to be heat pumps. Gas systems must be electric-ready.
Space Heating	Non-Residential New Construction	For Single Zone up to 240,000 Btu/hr or less, heat pumps are prescribed. Multi-zone systems require a heat pump* or equally efficient gas system *Exceptions: Buildings greater than 150kp sq ft. and Schools in Climate Zone 7
Space and Water Heating	Single-family Residential Construction	Both space and water heating: Heat pumps
EV-capable¹	Non-Residential New Construction	20% of parking spaces must be EV-capable; 50% of EV-capable spaces must have Electric Vehicle Supply Equipment (EVSE), except Office and Retail uses which must have 75% of EV-capable spaces with EVSE.
EV-ready <sup>2</sup>	Multi-family Residential Construction	One parking space EV-ready (Low Power Level 2) for each dwelling unit. EVSE at 25% of spaces.
EV-ready <sup>2</sup>	Hotels and Motels  New Construction	40% of parking spaces must be EV-ready for Low Power Level 2; 25% of EV-ready spaces must have EVSE.

<sup>&</sup>lt;sup>1</sup>EV-capable space: includes the electrical capacity and conduit, but no wiring or outlet, allowing for future installation of an EV charger

## 2025 Building Code: Supplemental Cost-Effective Energy Efficiency Requirements

CALGreen Measure	Applicability	Description
Cool roofs  Payback  4-10 yrs	Non-Residential Alterations / Additions	Enhanced cool roof requirements when roof alterations exceed 50% of roof area or 2,000+ sq ft.
High-rise Hot Water Performance  Payback  • All-electric - At installation • Mixed fuel Systems - 30 yrs	High-rise Residential Construction	New high-rise residential buildings with central hot water systems to achieve 5% enhanced energy performance beyond Title 24 requirements.

## 2025 Land Development Code (LDC) Update: Cost-Effective Energy Efficiency Requirements

LDC Measure	Applicability	Description
Pool/Spa Heaters		Solar thermal, heat pump pool heater (HPPH), or on-site renewable/recovered energy systems for heating pools and spas (excluding portable electric spas) with specific efficiency,
Payback	Multi-family Residential Non-Residential Alterations / New Additions Construction	sizing, and control standards.
Dark-sky Outdoor Lighting		Outdoor pole-mounted and arm-mounted luminaries which minimize upward light emission to reduce light pollution while
Payback No additional cost	Multi-family Non-Residential New Residential Construction	maintaining safe and energy efficient lighting levels.









<sup>&</sup>lt;sup>2</sup>EV-ready space: includes the panel capacity, wiring, and conduit, but also terminates with a 240-volt outlet or junction box, requiring only the charger to become operational