



# **Item 7: Adoption of the 2025 California Energy Code**

September 11, 2024 Business Meeting

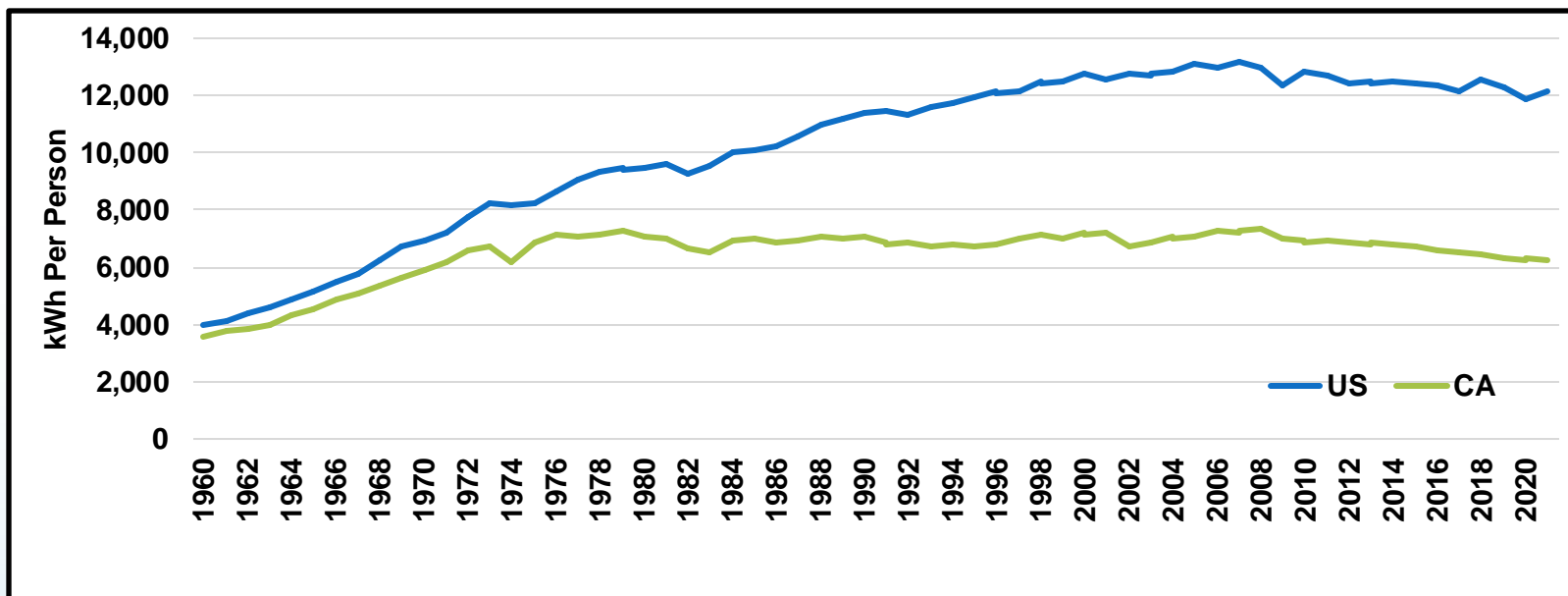
Gypsy Achong, Branch Manager  
Building Standards Branch, Efficiency Division



# Benefits to Californians

Over the last 50 years:

- Savings for Californian households >\$100B
- Reduced demand for dirty, inefficient power
- Nearly constant per capita use of electricity



Source: CEC analysis; US Energy Information Agency (EIA) Historical State Data; US Census Bureau via USAFacts.org



# 2025 Energy Code Benefits by the Numbers

Energy cost savings: \$4.8B

Avoided GHG Emissions: 4.1M MT CO<sub>2e</sub>

Benefit to Cost Ratio: 7

Electricity Savings: 392 GWh/yr

Natural Gas Savings: 23 MM Therms/yr

Water Savings: 68+ MM gallons/yr

## **Heat pumps:**

Leads to installation of over 500k heat pumps over 3 years

## **PV/Battery:**

Saves on average 300 GWh/year; reduces power demand on average 0.88MW/year. Minimizes grid exports.

## **Electric-ready:**

Sets up owners of newly constructed commercial kitchens to use cleaner electric equipment when they are ready



# 2025 Energy Code Process

Milestone	Timeline
33 Public Workshops	3/2022 – 4/2024
45-Day Public Comment Period	3/2024 – 5/2024
15-Day Public Comment Period	6/13/24 – 6/28/24
15-Day Public Comment Period	8/22/24 – 9/6/24
CEC Proposed Adoption	9/11/24
Proposed Effective Date	1/1/26

**Today** ➡



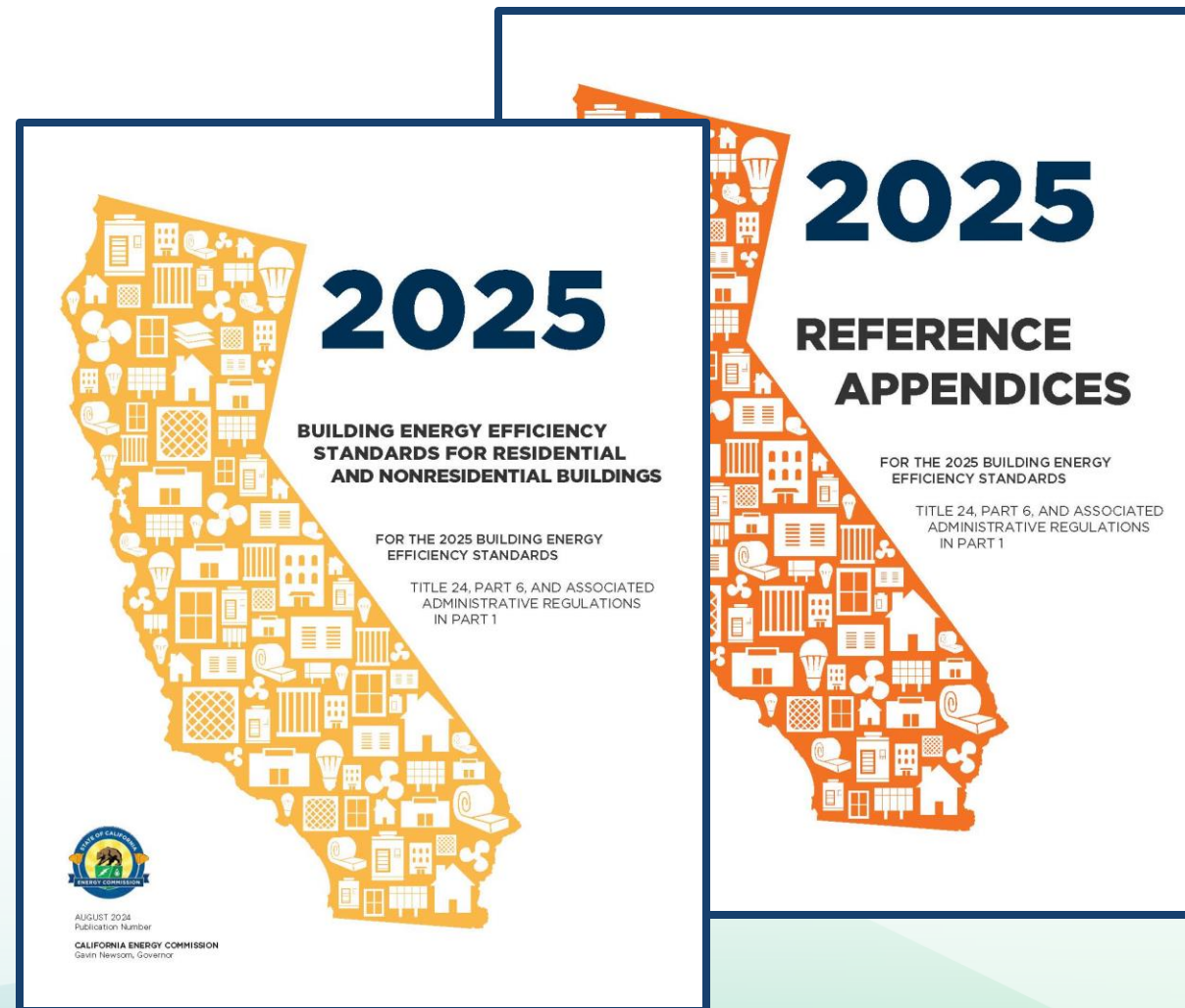
# Overview of Presentation

## Highlights:

- Heat pumps
- Electric-ready
- Solar energy and battery storage
- Field verification and diagnostic testing

Initial Study & Negative Declaration -  
California Environmental Quality Act (CEQA)

Requested CEC Action





# 2025 Energy Code Highlights – Heat Pumps (HPs)

Standard design:

- Single-family: HPs for water, space heating
- Low-rise multifamily: HP Water Heater for individual dwelling units

Existing commercial buildings:

- New or replacement rooftop packaged units < 65,000 Btu/hr

HP control requirements

Prescriptive multi-zone space-conditioning system type requirements for medium-sized offices and schools



Source: CEC



# 2025 Energy Code Highlights - Electric-Ready Requirements



Source: CEC

- Commercial kitchens
- Central water heating systems (multifamily)
- Updated requirements for heat pump water heaters serving individual dwellings

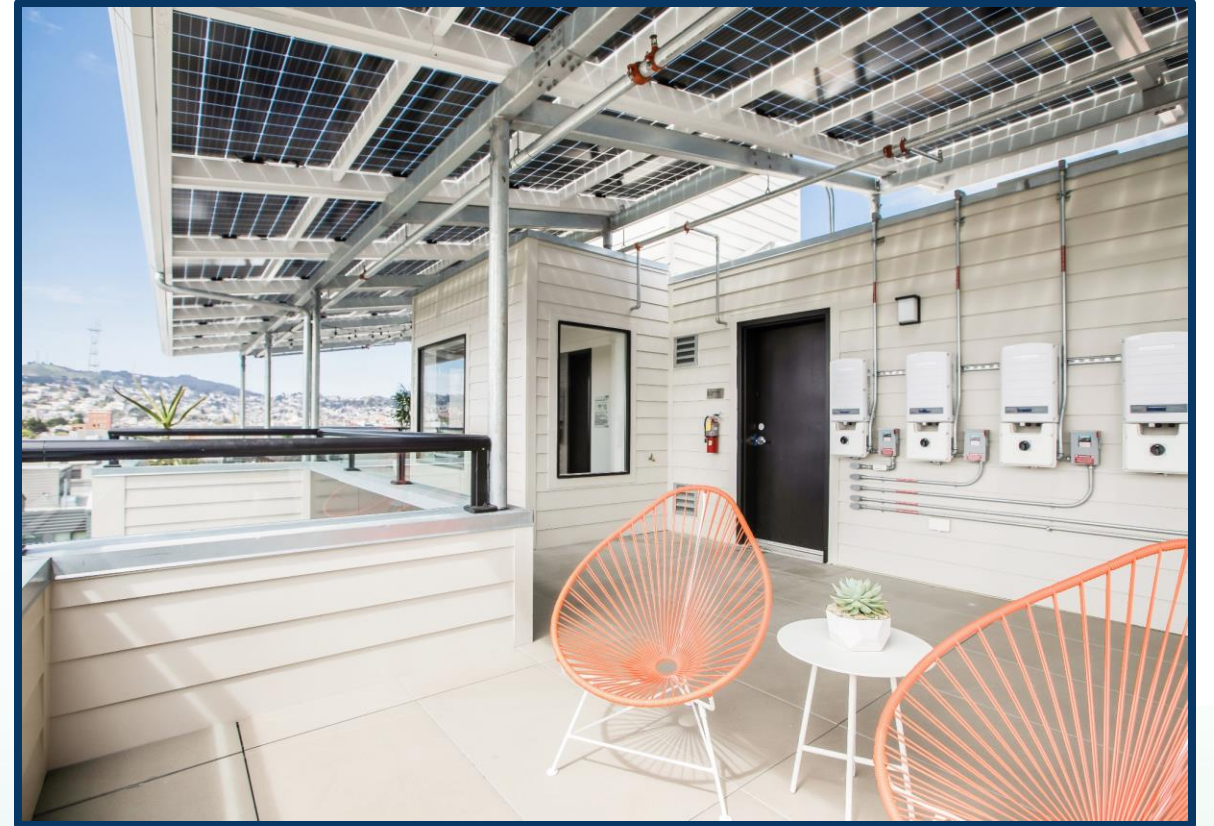


# 2025 Energy Code Highlights - Solar Energy & Battery Storage

Updated requirements for multifamily, nonresidential, while minimizing grid exports

Added requirements for:

- Event and exhibit buildings
- Religious worship buildings
- Sports and recreation buildings



Source: Joseph Schell



# 2025 Energy Code Highlights - Field Verification & Diagnostic Testing



Source: Lawrence Andersen

- Moves Home Energy Ratings System (HERS) program to Title 24
- Establishes “Energy Code Compliance” program
- Reestablishes focus on consumer protection
- Advances conflict of interest protections
- Strengthens quality assurance process
- Clarifies Field Verification and Diagnostic Testing community responsibilities



# Other 2025 Energy Code Measures

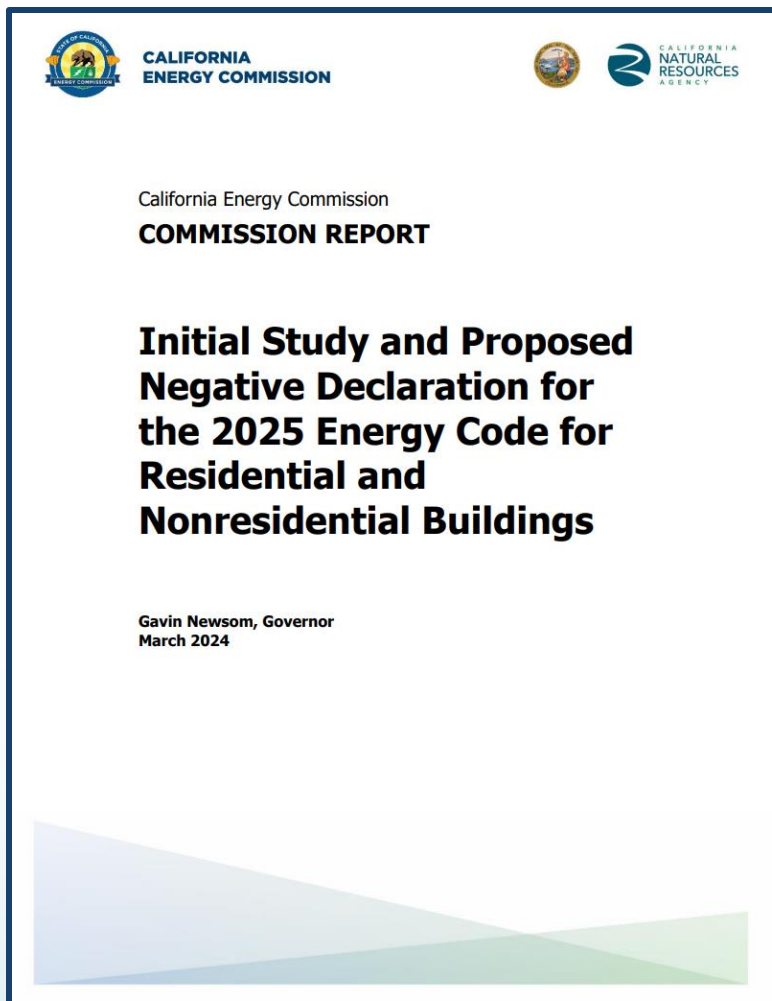
- Requirements for more efficient pool and spa heating systems
- Streamlined lighting requirements
- Improved multifamily indoor air quality



Source: Natalia Knezevic



# Initial Study & Proposed Negative Declaration (CEQA)



- Public comment period: July 29 to August 29, 2024
- No responsive comments received on Initial Study and Proposed Negative Declaration
- Compliance with CEQA



# Requested CEC Action

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## Staff requests the CEC:

1. Approve the initial study and adopt the negative declaration based on its findings
2. Adopt the proposed 2025 update to the California Energy Code, inclusive of:
  - Errata, and
  - Sections identified in the Resolution as “do not adopt”. Sections will retain existing 2022 language



# Thank you!

Commissioner McAllister, Chair Hochschild and their advisers		Executive Office and Efficiency Division Team	
Bill Pennington	Ken Rider	Michael Sokol	Will Vicent
Office of Chief Counsel		Payam Bozorgchami	Javier Perez
Michael Murza	Ana Gonzalez	Michael Shewmaker	Bach Tsan
Isaac Serratos	Josephine Crosby	Joe Loyer	Cheng Moua
Allan Ward	Lisa De Carlo	Haile Bucaneg	Muhammad Saeed
Energy Assessments Division		Simon Lee	Danny Tam
Supply Office		Ron Balneg	Stephen Becker
Consultants		Sahar Daemi	Anushka Raut
NORESCO	Bruce Wilcox	Administrative Team	
Maziar Shirakh		Corinne Fishman	Hilary Fiese
Stakeholders		Tajanee Ford-Whelan	Michi Mason