



**TITLE 24, PART 6**

**2028 CODE CYCLE**

# Welcome to the Statewide CASE Team's Utility Sponsored Stakeholder Meeting



Cosimina Panetti and Nikki Westfall

Energy Solutions

March 5, 2026

# Agenda 3/5

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Introduction	9:30
Controlled Environment Horticulture Lighting Efficacy	9:45
Controlled Environment Horticulture Daylight Responsive Controls	10:15
Controlled Environment Horticulture – Greenhouse Glazing Memo	10:45
Controlled Environment Horticulture HVAC/D and Prototype	11:15
Adjourn	12:45

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If you experience technical difficulties during this webinar, please contact [info@title24stakeholders.com](mailto:info@title24stakeholders.com) and someone from the CASE Team will get back to you shortly.

# Objectives

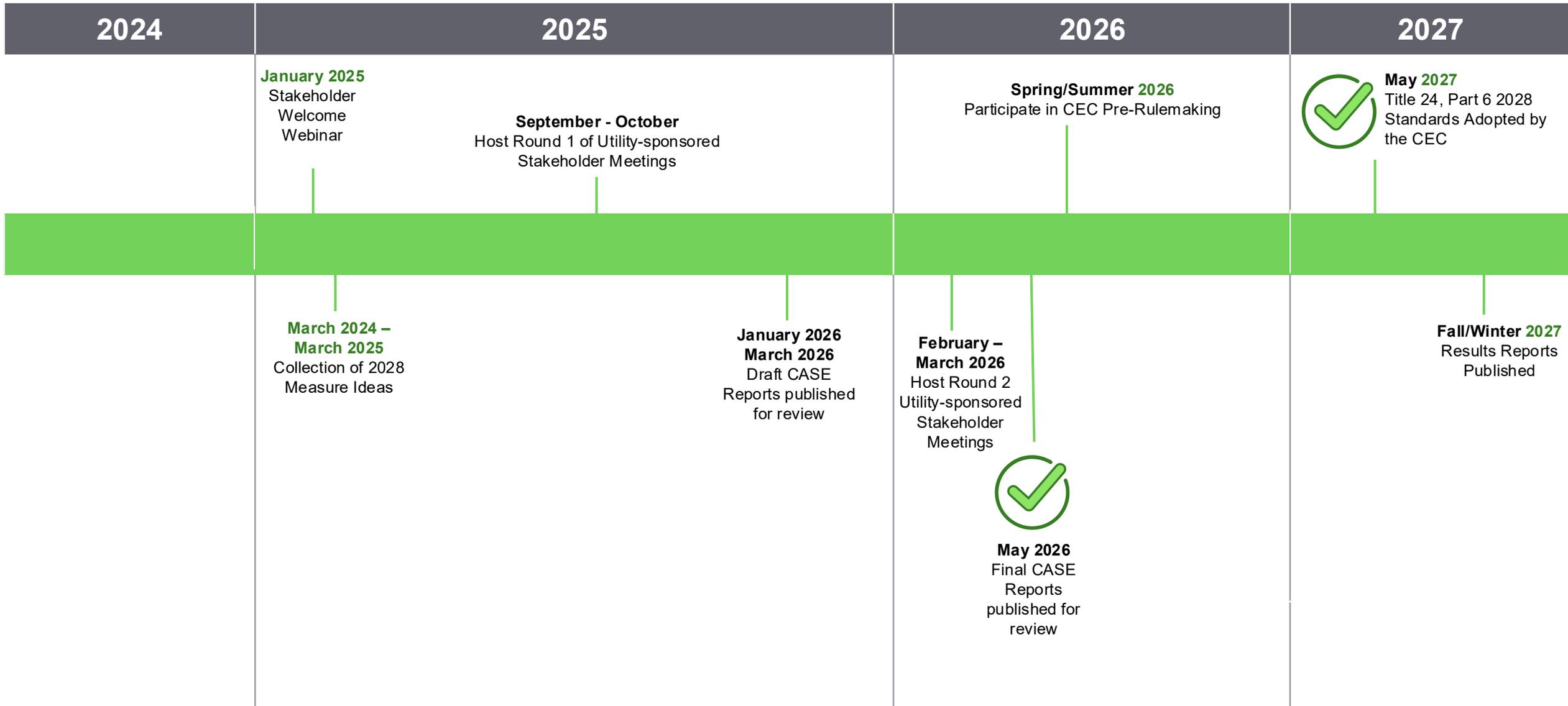
- Build involvement in the California Energy Code update process
- Introduce the Statewide CASE Team's measure ideas & offer opportunity for participation and clarifying questions
- Connect early in the cycle



*Public involvement is an important part of California Energy Commission proceedings. The Commission promotes an open process that enables those who are interested to have an opportunity to stay informed, have a voice, and influence the outcome of proceedings.”*

–CEC

# Statewide CASE Team Milestones



# Questions

- We want to hear from you! If questions can't be answered today, CASE Authors will follow up with stakeholders separately **within 5 business days**
- Please limit to quick, clarifying questions; 2 minute maximum for verbal questions; more in-depth discussions can occur in follow-up communication
- 4 ways to submit a question:
  - Add to 'Question' box during today's presentation
  - Raise your hand at the end of the presentation – we will unmute you
  - Respond to the polls during today's presentations
  - Email [info@title24stakeholders.com](mailto:info@title24stakeholders.com)

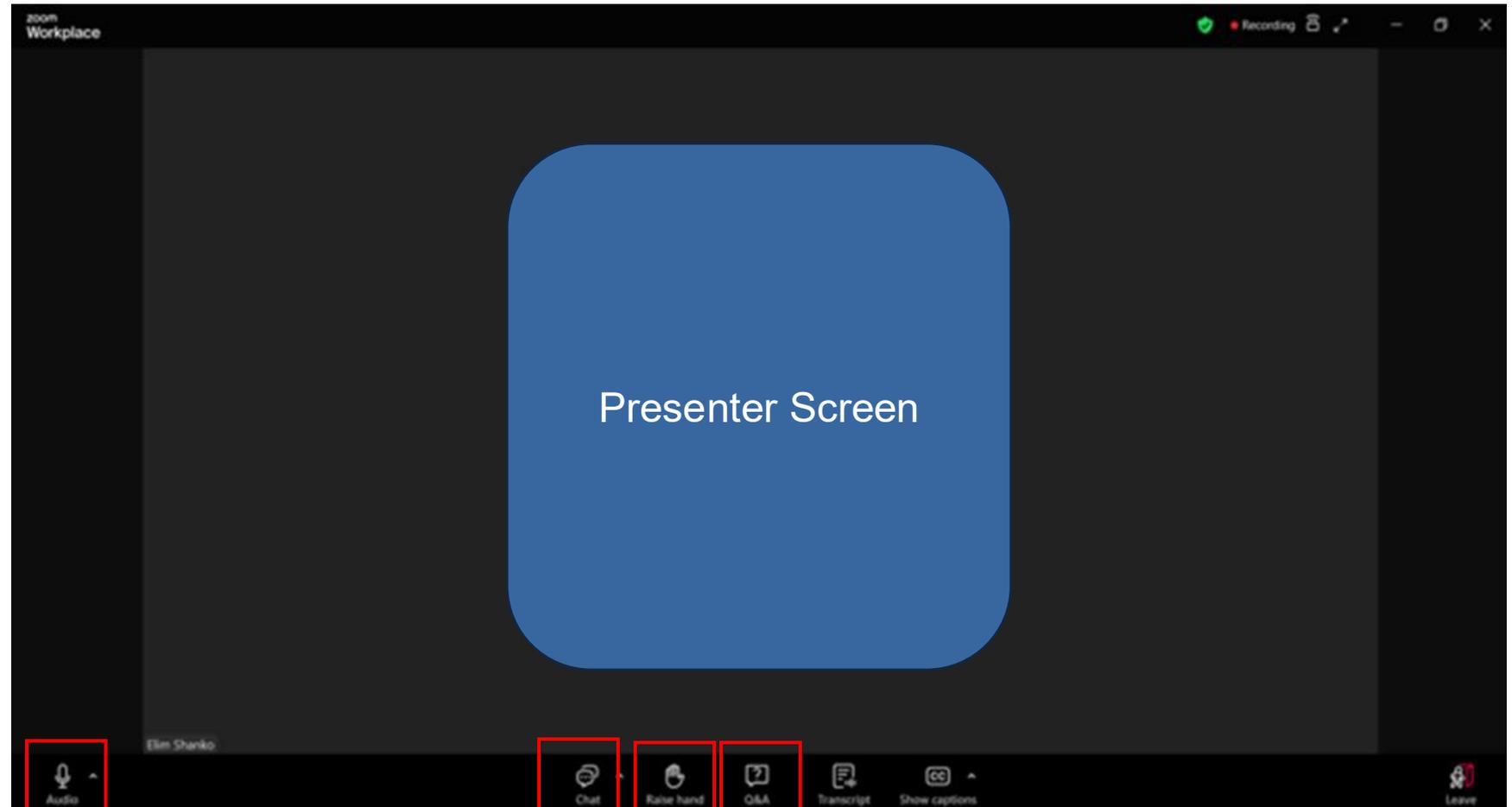
# Zoom Dashboard and Features

The chat feature will be disabled for this webinar. Please use Q&A.

To ask a question live, attendees can raise a hand here

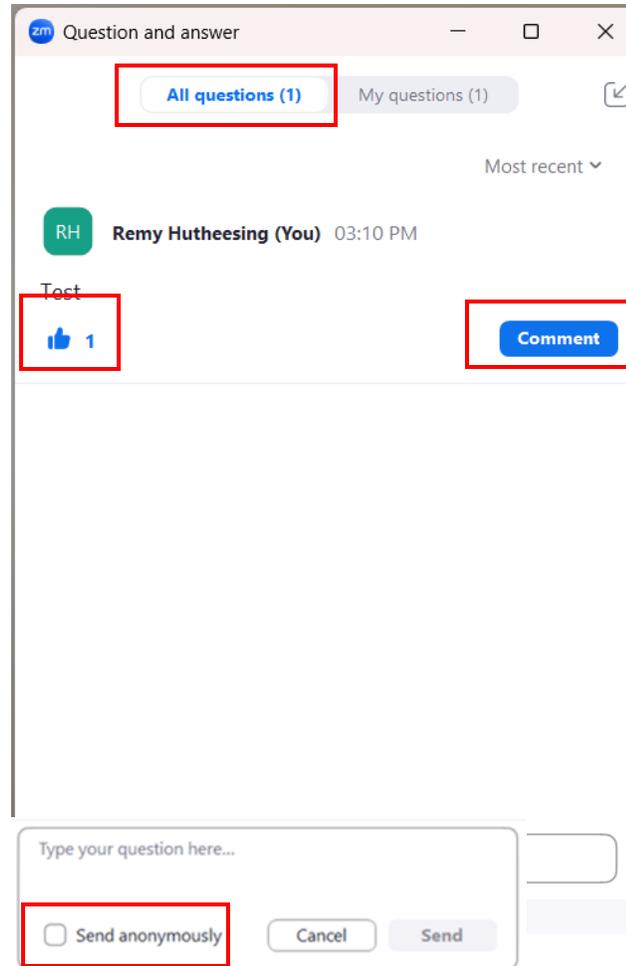
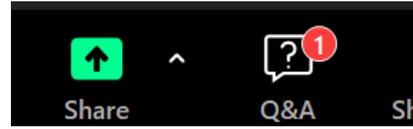
Questions can be asked here

Click here to adjust your audio settings



# Q&A

- Attendees will be able to ask questions by clicking on the Q&A icon in the tool bar
- Attendees will be able to toggle between 'all questions' or 'my questions'
- Attendees can 'like' or 'comment' on questions posted by others
- Attendees can also post questions anonymously by checking the 'send anonymously' box



- Any 'raised hand' will be addressed at the end of the presentation if there is time. Otherwise please put your question in the Q&A

# CEC Introduction

- Authority and Process
- Drivers and Themes
- Contacts

**Michael Shewmaker**

Supervisor

Building Standards Development Unit

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# California Energy Commission's Authority & Process

## Public Resources Code

**(PRC 25402):** Reduction of wasteful, uneconomic, inefficient, or unnecessary consumption of energy

- Warren Alquist Act Signed into law in 1974
- Mandates updates to Building Efficiency Standards and requires the building departments to enforce them through the permit process



**CALIFORNIA  
ENERGY COMMISSION**



**CALIFORNIA  
NATURAL  
RESOURCES  
AGENCY**

California Energy Commission  
**Warren-Alquist Act**

**State Energy Resources  
Conservation and  
Development Act**

**Public Resources Code  
Section 25000 et seq.**

# AB130 (2025-2026) Update

**Limits updates to building standards affecting residential units before 2031 code cycle (effective date no sooner than Jan 1, 2032)**

- All 2028 Energy Code updates will exclude buildings of occupancy group R and its common or public use areas
  - Occupancy group R is defined Part 2 of Title 24
- Residential energy metrics will remain unchanged until 2031 Energy Code, including compliance metrics and weather files
- September 2025, CA Building Standards Commission Information Bulletin 25-03:
  - <https://www.dgs.ca.gov/BSC/News/Page-Content/Building-Standards-Commission-News-List-Folder/IB-25-03-AB-130>
- For questions on local ordinances, please email [LocalOrdinances@energy.ca.gov](mailto:LocalOrdinances@energy.ca.gov)

# 2028 Energy Code Drivers and Themes

## State Goals

- Contribute to the state's GHG reduction goals
- Increase building energy efficiency cost-effectively

## 2028 Energy Code Areas of Interest – Nonresidential Buildings

- Continue to encourage efficient building decarbonization where possible
- Promote demand flexibility
- Covered process loads
- Existing buildings
- Compliance improvements



# 2025 Restructured Standards



HOME

PROCEEDINGS ▾

RULES AND REGULATIONS ▾

PROGRAMS AND TOPICS ▾



[Restructured 2025 Energy Code – California Code of Regulations – Title 24, Part 6 \(For Information Only\)](#)

**FIND IT:** <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency>

**COMMENT:** <https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=24-BSTD-05>



# Organized by Building System

Chapter	Section	Title
1	100.0-100.2	<b>General Provisions</b> All building types
2	110.0-110.12	<b>Mandatory</b> All building types
3	120.0-120.10	<b>Mandatory</b> Nonresidential, Covered Process
4	130.0-130.5	<b>Mandatory Lighting &amp; Electrical</b> Nonresidential, Covered Process
5	140.0-140.10	<b>Prescriptive and Performance</b> Nonresidential, Covered Process
6	141.0-141.1	<b>Additions, Alterations and Repairs</b> Nonresidential, Covered Process
7	150.0	<b>Mandatory</b> Single-family
8	150.1	<b>Prescriptive and Performance</b> Single-family
9	150.2	<b>Additions, Alterations and Repairs</b> Single-family
10	160.0-160.9	<b>Mandatory</b> Multifamily
11	170.0-170.2	<b>Prescriptive and Performance</b> Multifamily
12	180.0-180.4	<b>Additions, Alterations and Repairs</b> Multifamily

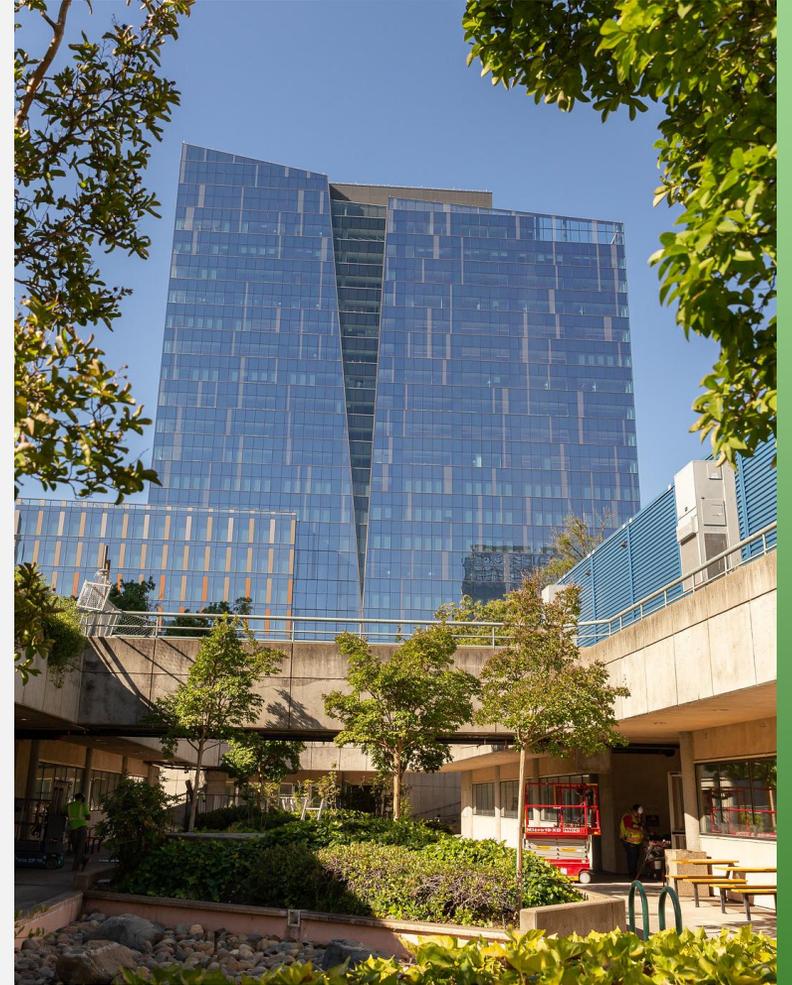
CURRENT STRUCTURE

Chapter	Section	Title
1	100-102	<b>General Provisions</b> All building types
2	200	<b>Definitions</b> All building types
3	300-303	<b>Envelope</b> All building types, Nonresidential, Single-family, Multifamily
4	400-403	<b>HVAC and Ventilation</b> All building types, Nonresidential, Single-family, Multifamily
5	500-503	<b>Plumbing</b> All building types, Nonresidential, Single-family, Multifamily
6	600-603	<b>Electrical and Lighting</b> All building types, Nonresidential, Single-family, Multifamily
7	700-703	<b>Renewables and Storage</b> All building types, Nonresidential, Single-family, Multifamily
8	800-803	<b>Pool and Spa</b> All building types, Nonresidential, Single-family, Multifamily
9	900-911	<b>Process Systems and Equipment</b> Covered Process
10	1000-10001	<b>Design Review and Commissioning</b> Nonresidential

RESTRUCTURED FOR 2028

# 2028 Energy Code – How to Reach the CEC

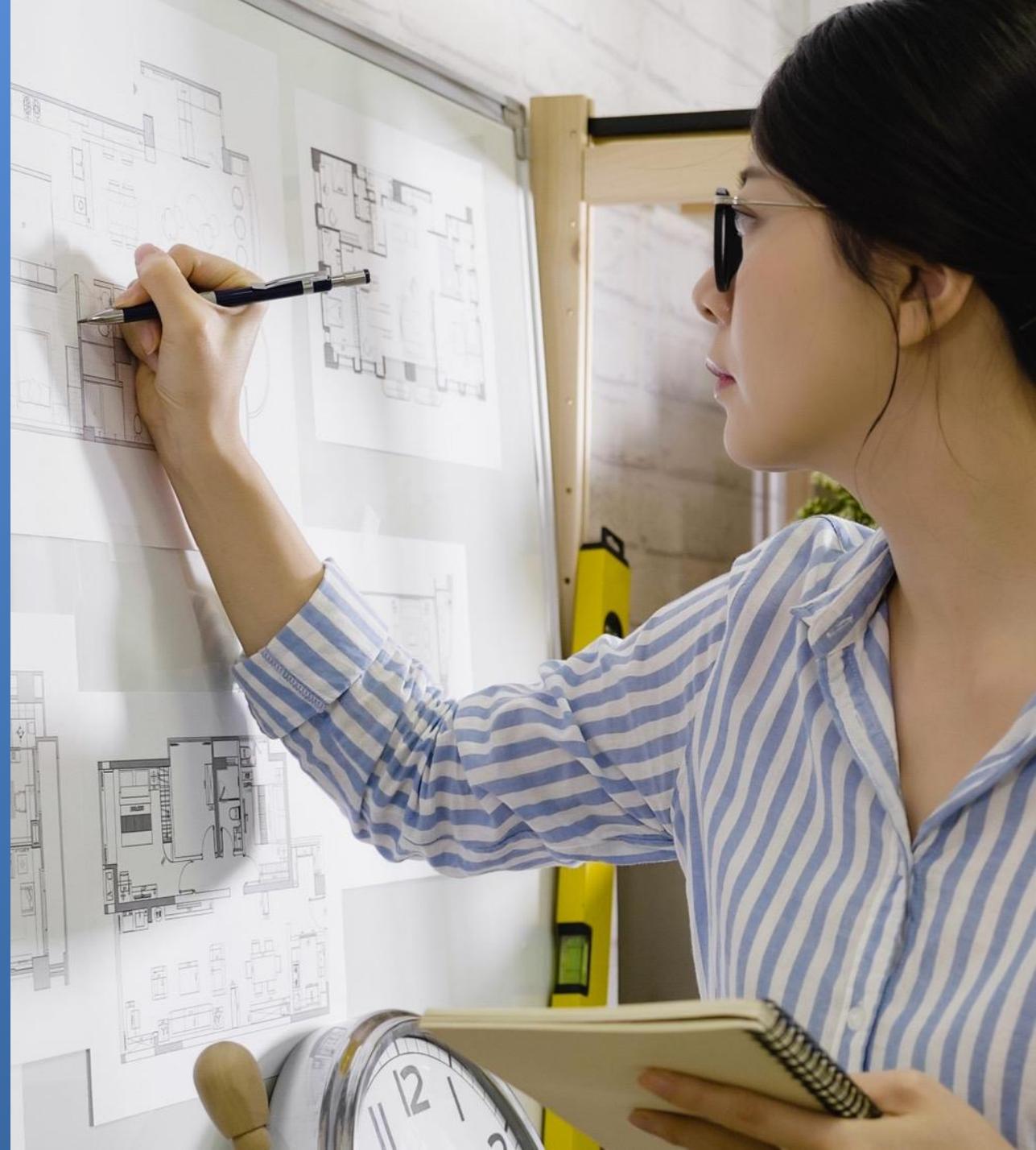
- Any questions for the CEC can be sent to:  
[EnergyCodeUpdateInquiries@energy.ca.gov](mailto:EnergyCodeUpdateInquiries@energy.ca.gov)
- Comments on our 2028 Energy Code efforts and process can be formally submitted to our docket:  
<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=25-BSTD-03>
- Comments may be included in the “Comment Text” box or attached in a downloadable, searchable Microsoft® Word (.doc, .docx) or Adobe® Acrobat® (.pdf) file
  - Maximum file size is 10 MB



# Statewide Utility Codes and Standards Team

Welcome, Project Schedule &  
Milestones

Mark Alatorre  
PG&E  
[m6ac@pge.com](mailto:m6ac@pge.com)



# Statewide Utility Codes and Standards Team

Actively supports the California Energy Commission in developing proposed changes to the Energy Code (Title 24, Part 6) to achieve significant statewide energy use reductions through the development of code change proposals for the 2028 cycle that are:

**Feasible** | **Cost effective** | **Enforceable**



# How the Utility Team Supports the 2028 Code Cycle

## General priorities:

- Support CEC in achieving statewide policy goals
- Cost-effective energy savings (kWh, kW, Therms)
- GHG emissions reductions

## Options for utility team support:

- Develop Code Change Proposals (CASE Reports)
- Provide data for proposals CEC develops
- Collaborate with other stakeholders who are developing proposals
- Support software development

Maximize number of cost-effective code changes for each cycle that will allow the state to achieve long-term policy goals

# Conclusion



# Stakeholder Meetings Round 2 Coming Soon

March 10	March 17 AM	March 17 PM	March 19 AM	March 19 PM	March 26
ECM Circulator Pump with Controls	Solar Heating for Existing Pools and Spas	Data Centers Efficiency Improvements (HVAC)	Indoor Lighting Power Density	Compressed Air	Enhanced Dedicated Outdoor Air Systems
Require Return to Primary Configuration and Hot water Prototype	Process Steam: Flash Steam Reduction and Recovery	Healthcare	Indoor Lighting Controls	Refrigeration	HVAC Fault Detection Diagnostics
Unitary HP/ER hybrid heaters	Process Steam: Condensate Return	Fenestration Improvements			Reducing Maximum Airflow During Deadband Operation for Variable Air Volume HVAC Systems
Air-to-Water Heat Pump Modify Existing Chiller/Boiler Requirements To Account For AWHP/WWHP					
Air-to-Water Heat Pump Compliance Pathways and Requirements (glycol concentration only)					

# Get in Touch

1. Visit [Title24stakeholders.com](https://Title24stakeholders.com) to sign up for our listserv, or contact [info@title24stakeholders.com](mailto:info@title24stakeholders.com)
2. Follow 'Title 24 Stakeholders' on [LinkedIn](#)
3. Visit [Energy Code Ace](#) for compliance support and the [Local Energy Codes](#) program for information on statewide reach code activity
4. Contact the CEC [Building Energy Efficiency Standards - Title 24](#)

**CALIFORNIA ENERGY CODES & STANDARDS**  
A STATEWIDE UTILITY PROGRAM

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## Stay Informed

Receive email notifications about upcoming meetings, notes and presentations from past meetings, and announcements about the California Energy Commission's rulemaking process.

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### EnergyCodeAce™

Comply With The

Your one-stop shop for no-cost tools, training and resources to help you comply with California's [Title 24, Part 6 building energy code](#) and [Title 20 appliance standards](#). We're powered by the California Statewide Codes & Standards Program and vetted by the California Energy Commission.

# Participate In the Process

Stakeholder engagement is encouraged throughout the code cycle:

- ✓ Share knowledge and data
- ✓ Attend our utility-sponsored stakeholder meetings
- ✓ Participate in CASE surveys
- ✓ Review CASE Reports
- ✓ Submit comments

E-mail the CASE Team at: [info@title24stakeholders.com](mailto:info@title24stakeholders.com)

Sign up for our listserv at [Title24stakeholders.com](https://www.title24stakeholders.com)

# Thank You

## Questions?

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