DOCKETED			
Docket Number:	24-BSTD-01		
Project Title:	2025 Energy Code Rulemaking		
TN #:	: 255769		
Document Title:	ocument Title: April 16, 2024, Presentation Slides from Lead Commissioner Hearing on 2025 Building Energy Efficiency Standards		
Description:	Presentation slides from the April 16, 2024, Lead Commissioner Hearing on the proposed changes to the 2025 Building Energy Efficiency Standards. All materials related to this hearing, including a recording of this hearing will be posted on the event website at https://www.energy.ca.gov/event/2024-04/day-1-lead- commissioner-hearings-2025-building-energy-efficiency- standards.		
Filer:	r: Javier Perez		
Organization:	California Energy Commission		
Submitter Role:	Commission Staff		
Submission Date:	4/17/2024 4:16:23 PM		
Docketed Date:	4/17/2024		



# Good morning and thank you for joining us.

### The hearing will begin shortly.





## 2025 Building Energy Efficiency Standards – Lead Commissioner Hearing

April 16, 2024





### **Public Comments**

#### In Person

Raise hand

#### Microphone will be provided

- State your name and affiliation
- Maximum 2 minutes per speaker, 1 speaker per affiliation

#### Zoom App/Online

• Click "raise hand"

#### Telephone

- Press \*9 to raise hand
- Press \*6 to Mute/Unmute

#### When called upon

- CEC will open your line
- Unmute on your end
- Spell name and state affiliation, if any
- Maximum 2 minutes or less per speaker, 1 speaker affiliation



Topics	Presenter
General Structure of Hearing	Payam Bozorgchami
Opening Remarks	Commissioner McAllister
Rulemaking Introduction	Javier Perez
Part 1: All Changes Field Verification & Diagnostic Testing / Acceptance Test Technician Certification Program Updates	Joe Loyer
Break	
Continuation of: Part 1: All Changes Field Verification & Diagnostic Testing / Acceptance Test Technician Certification Program Updates	Joe Loyer
Lunch	



Topics	Presenter
Part 6: Scope, Energy Budgets, and Mandatory Requirements Applicable to all Buildings	Haile Bucaneg
Break	
Continuation of: Part 6: Scope, Energy Budgets, and Mandatory Requirements Applicable to all Buildings	Haile Bucaneg
Closing Remarks	Commissioner McAllister
End	Payam Bozorgchami



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- Thank you for participating!

### Upcoming Lead Commissioner Hearings

#### Upcoming 2025 Energy Code Lead Commissioner Hearing (Zoom Only)

- Wednesday, April 17, from 9am to 4pm
- Topics covered will include:
  - Covered Processes
  - Nonresidential Buildings:
    - Mechanical
    - Envelope
    - Lighting
- o Nonresidential Buildings:
  - Photovoltaic
  - Battery Energy Storage Systems



### Upcoming Lead Commissioner Hearings

#### Upcoming 2025 Energy Code Lead Commissioner Hearing

- Thursday, April 18, from 9am to 4pm
- Topics covered will include:
  - Sigle-Family Residential Buildings
    - Mandatory Measures
    - Prescriptive Measures
    - Additions and Alteration
  - Multifamily Buildings
    - Mandatory Measures
    - Prescriptive Measures
    - Additions and Alteration



## **2028 Measure Proposal Ideas**

#### CASE Team 2028 Measure Intake Webpage Now Available

- Measures not included in 2025
   cycle
- New ideas, technologies, etc.
- Intake portal now open
- Visit: <u>https://title24stakeholders.com/pro</u> <u>vide-a-code-change-idea/</u>







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#### **2025 Building Energy Efficiency Standards Rulemaking - Lead Commissioner Hearings**

Energy Code Authority, Drivers and Themes, Metrics, and Timeline

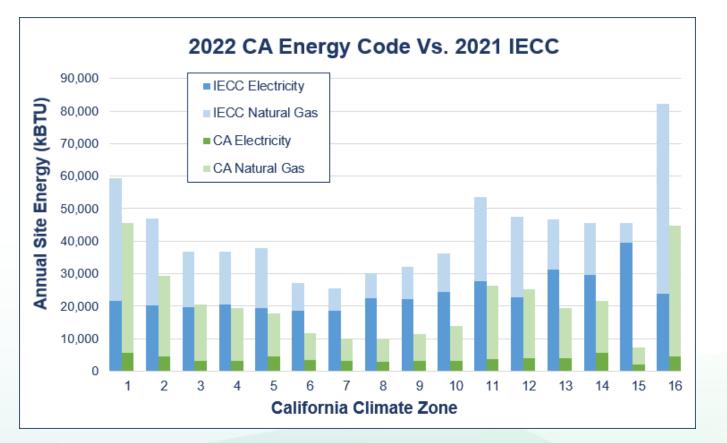
Javier Perez, Project Manager, 2025 Standards

April 16, 2024

### California Energy Commission's Authority and Process

#### California's Warren Alquist Act Signed into law in 1974

- Reduction of wasteful, uneconomic, inefficient, or unnecessary consumption of energy as it relates to buildings
- Residential Chart Details:
  - Blue bars: Site energy of a singlefamily building built to 2021 International Energy Conservation Code (IECC)
  - Green bars: Site energy of a singlefamily building built to 2022 California Energy Code
- For more on how the 2022 Energy Code compares to federal standards, see our 2022 Impact Analysis at: <u>https://www.energy.ca.gov/publications/2</u> 023/impact-analysis-2022-updatecalifornia-energy-code



## **2025 Energy Code Drivers and Themes**

#### **State Goals**

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

#### **2025 Energy Code Strategies**

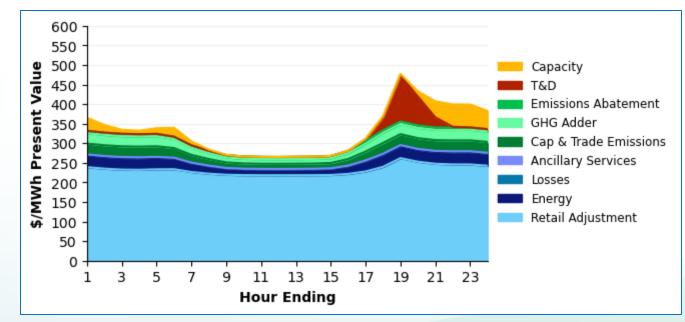
- Heat pump baselines
- Promote demand flexibility, Solar PV generation and energy storage
- Covered process loads
- Equity & affordable new housing program integration
- Additions, alterations, and smaller homes (e.g., ADUs)
- Interagency coordination



## Long-Term System Cost

Long-term System Cost (LSC) Hourly factors are used to convert predicted site energy use to long-term dollar costs to CA's energy system.

Since the *time* that energy is used is as important as the *amount* of energy used, these factors are generated on an hourly basis for a representative year and created for each of CA's diverse climate zones.



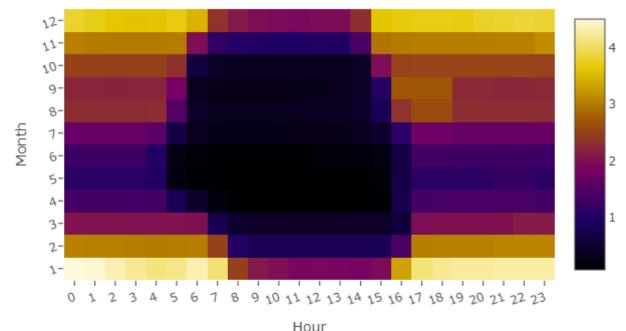
Sample LSC shape by component, average day, levelized 30-year residential, climate zone 12

## **Source Energy Metric**

Long run marginal source energy is defined as the source energy of fossil fuels following the long-term effects of any associated changes in resource procurement.

Source Energy focuses specifically on the amount of fossil fuels that are combusted in association with demand-side energy consumption and assists in aligning our standards with the CA's environmental goals.

5-Month Average of electricity long run marginal source energy for 2025 Energy Code





#### California has 16 climate zones

- Climate Zones allow software to more accurately simulate variances weather, and as a result, energy consumption of buildings
- A measure's cost effectiveness can vary as a result of weather differences
- Energy Code requirements vary by climate zone as a result



## **2025 Cycle - Work To Date**

Milestones	Timelines
Codes & Standards Enhancement (CASE) Team Measure Proposal Efforts • 19 Public Workshops • <u>https://title24stakeholders.com/</u>	June 2021 – July 2023
<ul><li>CEC Updated Weather Data, LSC, and Source</li><li>Energy Metrics</li><li>2 Public Workshops</li></ul>	March 2022 – September 2022
<ul> <li>CEC Pre-Rulemaking Workshops</li> <li>9 Public Workshops</li> <li><u>https://efiling.energy.ca.gov/Lists/DocketLog.aspx</u> <u>?docketnumber=22-BSTD-01</u></li> </ul>	March 2023 – September 2023
CEC Released Draft Express Terms	November 2023
CEC released 45-day Rulemaking Language	March 29, 2024



#### **Stakeholder Participation**

- Over 60 different stakeholder groups participated
- Groups included:
  - Energy Consulting
  - Trade Groups
  - Engineering/Architecture Firms
  - Manufacturers
  - Building Industry
  - Environmental
  - ADU Advocates
  - Labs





Milestones	Timelines
Rulemaking 45-Day Public Comment Period	March 29, 2024 – May 13, 2024
Three-Day Lead Commissioner Hearings	April 16, 2024 – April 18, 2024
Rulemaking 15-Day Comment Period	June 2024
Adoption of 2025 Energy Code	August 14, 2024
Building Standards Commission Approval of 2025 Energy Code	December 2024
Manuals, Software, and Forms Updates	July 2024 – March 2025
2025 Energy Code Effective Date	January 2026

### **2025 Energy Code Senior Staff Contacts**

- Javier Perez Project Manager
- **Payam Bozorgchami** Technical Lead, Envelope, Additions and Alterations, ADUs
- Haile Bucaneg Covered Process, Demand Response, Nonresidential and Residential ACM
- Muhammad Saeed Solar Photovoltaic and Energy Storage Systems
- Bach Tsan HVAC Systems, Refrigeration
- Michael Shewmaker Supervisor, Standards Development Unit
- Gypsy Achong Branch Manager, Building Standards
- Email Convention at the Energy Commission: firstname.lastname@energy.ca.gov



## **2025 Building Energy Efficiency Standards** (Title 24, Part 6)

Proposed Changes to Part 1



Joe Loyer, Senior Mechanical Engineer April 16, 2024

## **No or Minor Proposed Changes**

- Section 10-101 No Changes
- Section 10-103 Clarifications only
- Section 10-104 Clarifications only
- Section 10-105 No Changes
- Section 10-106 No Changes
- Section 10-107 No Changes

- Section 10-108 No Changes
- Section 10-111 No Changes
- Section 10-112 No Changes
- Section 10-113 No Changes
- Section 10-114 No Changes



- Energy Budget New Definition
- Long-term System Costs (LSC) New Definition
- Source Energy New Definition
- Data Registry Minor changes to definition
- Triennial Code New Definition

- New definitions for the new Energy Code Compliance (ECC) Program in Section 10-103.3:
  - $\circ$  ECC-Provider
  - ECC-Rater
  - o ECC-Rater Company
  - Exemplary ECC-Rater
- Deleted definitions:
  - $\circ$  HERS
  - HERS Provider
  - HERS Rater



#### **Sections Affected**

Section 10-103.1(c)3F – Lighting ATTCP

Section 10-103.2(c)3F – Mechanical ATTCP

### Changes 2022 Code: Requires Provider to perform shadow audit of ATT at the job-site **2025 Proposed Change:** Adds alternative where Provider can perform shadow audit of ATT at a Provider training facility Removes building department surveys as a Provider QA measure

## **Proposed Changes related to the ATTCP and HERS (ECC) Requirements**

Includes various sections in Part 6 and the Reference Appendix





#### **Sections Affected**

Section 120.4(g)1 – Nonresidential and Hotel/Motel New Construction

Section 141.0(b)2Dii – Nonresidential and Hotel/Motel Alterations

Section 160.3(c)2Hi – Multifamily New Construction MF Common Area

Section 180.2(b)2B – Multifamily Alterations, Common Area

**NA2.1** – Nonresidential, Multifamily, and Hotel/Motel HERS Duct Leakage Test

**NA7.5.3** – Nonresidential, Multifamily, and Hotel/Motel Acceptance Testing for Air Distribution Systems



#### Changes

#### 2022 Code:

 Requires duct leakage test to be performed by both a certified ATT and a HERS Rater

#### **2025 Proposed Change:**

• Requires duct leakage test to be performed by certified ATT

## High Rise Multifamily Dwelling Unit Ventilation Systems

#### **Sections Affected**

Section 160.2(b)2Biv – HERS FV&DT

Section 160.3(d)2A – Acceptance tests

#### Changes

#### 2022 Code:

 Requires dwelling unit ventilation tests to be performed by both a certified ATT and a HERS Rater

#### **2025 Proposed Change:**

- Requires dwelling unit ventilation tests to be performed by HERS Rater (ECC Rater)
- Adds clarification that NA1.9 exists

## High Rise Multifamily Dwelling Unit Enclosure Leakage Test

#### **Sections Affected**

Section 160.2(b)2Aivb2 – HERS FV&DT

Section 160.3(d)2B – Dwelling unit enclosure leakage acceptance test

#### Changes

#### 2022 Code:

 Requires enclosure leakage test to be performed by both a certified ATT and a HERS Rater

#### **2025 Proposed Change:**

- Requires enclosure leakage test to be performed by HERS Rater (ECC Rater)
- Adds clarification that NA1.9 exists

## Acceptance Tests Technicians Alternative Procedure

#### **Sections Affected**

**NA1.9** – Acceptance test technicians alternative procedure

#### Changes

#### 2022 Code:

 Allows the HERS FV&DT in NA2 to alternatively be performed by a certified ATT with approval from the enforcement agency

#### **2025 Proposed Change:**

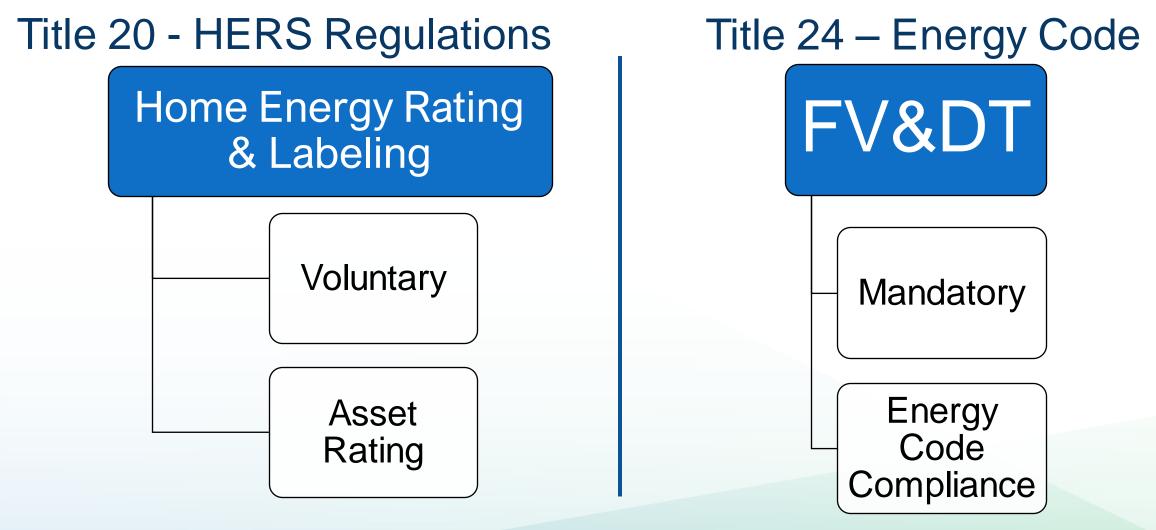
 Removes condition that the enforcement agency must approve

## Section 10-103.3

## Administrative Procedures for the Energy Code Compliance Program







Docket No. 23-BSTD-03, TN#: 252904



## Section 10-103.3 ECC Program

- (a) Scope
- (b) General Provision
- (c) ECC-Provider Approval
- (d) ECC-Provider Responsibilities
- (e) ECC-Rater Certification and Responsibilities
- (f) ECC-Rater Company Certification and Responsibilities
- (g) Prohibition from Practice and Re-Entry
- (h) Appeal to the Commission



- Establishes the program name: Energy Code Compliance (ECC) Program
- Protects consumers from poor construction by verifying compliance with the Energy Code for new construction including:
  - Newly constructed buildings
  - Additions and alterations to existing buildings
- Applies to Providers, Raters, and Rater Companies in the performance of FV&DT services



- Conflict of Interest (COI)
  - $\circ$  Prohibition of COI
    - Independent and Third-Party
    - Declaration of Separation of Services
    - Additional Prohibitions
    - Consumer Information Document for Homeowners
    - Summary of Results for Homeowners
    - Rater of Record
    - Use of Registered Certificates
  - Conflicted Data
- Prohibition on False, Inaccurate, or Incomplete Information



# Section 10-103.3(c) ECC-Provider Approval

- Approval Process
- Confidential Information
- Full Application
- Triennial Application
- Application for Remediation
- Updated Application
- Post-Approval Amendments
- Conditions of Approval
- Executive Director Rejection of Decertified Provider
   Application

# Section 10-103.3(d) ECC-Provider Responsibilities

- Rater and Rater Company Training and Certification
   NEW Declarations of Rater Company Separation of Services
- Quality Assurance
- Queries and Complaints
- Rater and Rater Company Progressive Discipline
- Data Recording, Retention, and Reporting
- Responses to Commission Requests for Data
- Data Registry Requirements
- No Approved Providers
- Provider Discipline



- Certification
- Required Conduct
- Failure to Adhere to Required Conduct
- Appeal and Reconsideration of Discipline



- Certification
- Required Conduct
- Failure to Adhere to Required Conduct
- Reconsideration of Discipline

# Section 10-103.3(f)2Diii Declaration of Separation of Services

Intent: Additional services while maintaining 3<sup>rd</sup> party independence.

- 1. Maintaining 3<sup>rd</sup> party independence
- 2. Qualified persons to provide additional services
- 3. Qualified persons to sign as Responsible Person
- 4. Submitted to the Provider



- Applies to Raters, Rater Companies, and Providers.
- Prohibition from practice and re-entry once decertified.
- Performing FV&DT
- Registering Compliance Document
- Accepting data from decertified entities
- Re-Entry



Procedures to Appeal to the Energy Commission regarding a decertification.

- Written appeal
- Submission of statement and evidence
- Commission Consideration of Appeal



- Recommendations outside the scope of the 2025 Energy Code Rulemaking
- Stakeholder Engagement Planning
- Interested parties are invited to submit recommendations and contact information directly to Joe Loyer at <u>Joe.Loyer@energy.ca.gov</u>



# **Questions?**





# **15-minute Break**

### We will resume at \_\_\_\_\_





Guidelines for the simulation and compliance rule implementation software developed by the Energy Commission and third-party software.

- Standard design.
- $\circ\,$  Use of identified metrics.
- $\circ\,$  Use of climate zones.
- Alternative Calculation Method Reference Manual.

### Section 10-109(k) PV + Battery Cost Effectiveness Determinations

#### Determinations

10-109(k): Allows CEC to determine that PV system requirements do not apply where public agency rules cause cost effectiveness analysis to not hold for the building.

Existing 2022 Standards	Proposed 2025 Standards
New and revised applications require CEC business meeting for approval	Revised applications are not required if the CEC finds that conditions have not changed in a way that would potentially alter previous determination/approval.
	Prior applicants shall assist CEC in obtaining information regarding current public agency rules upon request



Add the following applications to the approval process in Section 10-110:

- Section 10-103.3: ECC Provider
- Section 10-116: Third Party Compliance Software Applications

### Section 10-115 Community Solar and Battery Storage Systems

10-115(a)6: Location of Community shared solar electric generation system and/or community shared battery energy storage system

Existing 2022 Standards	Proposed 2025 Standards			
Location: Systems shall be located on a distribution system of the load serving entity that is providing service to the participating buildings.	Clarify that a distribution system will be defined as having an interconnection voltage < 100 kV.			



- Application Submitted by compliance software vendor.
- Approval Process of reviewing and approving compliance software.
- Software updates Revisions made to alternative calculation method compliance software.
- Expiration Occurs when newer versions of the compliance software are approved.
- Decertification Process of withdrawing approval of compliance software.



# **Questions?**





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# Lunch

### We will resume at \_\_\_\_



# **2025 Building Energy Efficiency Standards** (Title 24, Part 6)

Proposed Changes to Sections 100 and 110



Presenter(s): Haile Bucaneg, Senior Mechanical Engineer Date: April 16, 2024



### Section 100.0(a) – Buildings covered.

- Occupancy group L Adding laboratory suites to covered buildings.
- Clarify exception 2.



### Section 100.0(e)2F – Covered processes.

- Update applicable sections to include Sections 120.3 and 141.1.
- Update the list of mandatory sections applicable to covered process to include Sections 110.2 and 120.3.
- Remove note non-regulatory language.



### Table 100.0-A Application of Standards.

• Added sections.

Occupancies	Mandatory	Additions/Alterations
Nonresidential, And Hotels/Motels	120.10	N/A
Covered Processes	120.3	110.2, 120.3



### **Section 100.1 Definitions.**

- Nonresidential buildings updated to include Occupancy L.
- Definition for laboratory.
- Definition for laboratory suite.



### **Section 100.1 – Definitions and rules of constructions.**

• Healthcare facility definition updated to clarify that certain clinics built within a healthcare facility are considered a healthcare facility.



#### Section 100.1 – Definitions and rules of constructions.

- Energy budget definition updated to include Long-term system cost LSC and Source Energy metrics.
- Long-term system cost (LSC) added. LSC Does not represent a prediction of individual utility bills.
- Source Energy updated.
- Time Dependent Valuation Energy definition removed.



### Section 100.2 – Calculation of energy budgets.

- Long-term system cost (LSC).
  - LSC hourly factors.
  - $_{\odot}$  Vary by energy type and climate zone.
  - $\odot$  Residential and nonresidential.
  - ${\rm \circ}$  Newly constructed buildings, additions, and alterations.
- Source Energy.
  - $\odot$  Source Energy hourly factors.
  - $_{\odot}$  Vary by energy type and climate zone.
  - $\odot$  Residential and nonresidential.
  - $\circ$  Newly constructed buildings.



### Appendix JA3 – Energy budget.

- Provides summary of LSC and Source Energy
  - Energy types: Electricity (\$/kWh), Natural Gas (\$/Therm), Propane (\$/Therm)
  - $\ensuremath{\circ}$  Climate zone and building type



# **Controls for Heat Pumps with Supplementary Heaters**





# Section 110.2(b) – Controls for heat pumps with supplementary heaters, for non-residential and multifamily buildings

- Added language establishes that supplementary heat control requirements for non-residential and multi-family buildings are separate from requirements for single family residential buildings
- Requirements for non-residential and multifamily buildings are described in section 110.2(b)
- Requirements for single family residential buildings are described in section 150.0(h)7
- Added exception to 110.2(b) for single family residential buildings that comply with either Section 150.0(h)7 or 150.0(i)2 without the use of exceptions



# **Cooling Towers**





### Section 110.2(e) Open and closed-circuit cooling towers.

- Remove flow based control option.
- Update parameters for blowdown.
  - $\circ$  Conductivity
  - ${\scriptstyle \odot}$  Total dissolved solids
  - Total alkalinity
  - Calcium hardness
  - $\circ \, \text{Chlorides}$
  - $\circ$  Sulfates
  - $\circ$  Silica
  - $\circ$  Langelier saturation index



### Section 140.4(h)5 and 170.2(c)4Fv Cooling tower efficiency.

• Update minimum cooling tower efficiency based on climate zone.

Climate Zone	1	2	3	4	5	6	7	8
Minimum Efficiency (GPM/hp)	42.1	70	60	70	70	80	80	80
Climate Zone	9	10	11	12	13	14	15	16
Minimum Efficiency (GPM/hp)	80	80	60	70	80	60	80	42.1

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# Reference Appendices – Cooling Tower Conductivity Controls

### NA7.5.18 Cooling Tower Conductivity Controls.

- Construction inspection.
- Functional testing.



# **Questions?**





# Space Conditioning Equipment Efficiency





### Section 110.2(e) Efficiency.

- Update minimum efficiency values where necessary.
- Remove redundant tables.

### Section 110.3 – Mandatory Requirements for Service Water-Heating Systems and Equipment

#### • Section 110.3(c)7a Backup Heat

- New requirement for HPWH backup heat if compressor cutout temperature is below winter median of extremes
- Section 110.3(c)7b Ventilation
  - New ventilation requirements for HPWH installations includes the following:
    - Minimum installation or communicating space volume.
    - Minimum Net Free Area (NFA) for the openings
    - Requirements for ducts if ducted
    - Alternatively, a method certified by the manufacturer to meet the ventilation requirements of Section 110.3(c)7

### Section 110.4 – Mandatory Requirements for Pool and Spa Systems and Equipment

- Section 110.4(a) Certification by manufacturers
  - Various reorganizing and clean up existing code language for pool heater instructions
  - Delete 110.4(a)4 Electric resistance heating. Requirement reorganized into Section 110.4(c) Heating Source Sizing
- Section 110.4(b)1 Heating Equipment
  - New section referencing applicable testing standards for heat sources
- Section 110.4(b)2 Piping
  - Modify pipe requirement between filter and heater or connections from 36 inches to 18 inches of horizontal or vertical



- Section 110.4(b)3 Covers
  - Clean up for clarity
- Section 110.4(c) Heat Source Sizing
  - New requirement for the primary pool heater. Applicable to single family, multifamily and nonresidential applications when a new pool heater is installed
  - Requires either a solar swimming pool and/or spa heating system, a heat pump pool heater as the primary heating system, or a heating system that derives heating energy from on-site renewable or recovered energy
- Appendix JA16 Criteria for Pool and/or Spa heating
  - New appendix to support the heat source sizing requirement. Include sizing method for heat pump pool heater

### Section 110.4 – Mandatory Requirements for Pool and Spa Systems and Equipment (continued)

- New Exceptions to Section 110.4(c):
  - Exception 1 to section 110.4(c): Portable electric spas compliant with the Appliance Efficiency Regulations.
  - Exception 2 to section 110.4(c): Buildings with existing heating systems or equipment for pools and/or spas.
  - Exception 3 to section 110.4(c): A pool/and or spa that is heated solely by a solar swimming pool or spa heating system.
  - Exception 4 to section 110.4(c): A heating system used solely for permanent spa in existing building with gas availability
  - Exception 5 to section 110.4(c): A heating system used solely for permanent spa in existing building with inadequate solar access



### Section 110.8(i)3 Solar Reflectance Index

• Reference ASTM E1980-11 for SRI calculations.



#### Section 110.12(a) - Demand Responsive Controls

- Clarify DR controls communicate in a wired or wireless "communication protocol".
- Clarify "demand response signal" for the situation when it is disabled or unavailable.

#### Section 110.12(c) - Demand Responsive Lighting Controls

- Clarify demand responsive lighting control requirements for the buildings and the spaces.
- These changes apply to spaces subject to Nonresidential Section 130.1(b) and Multifamily Section 160.5(b)4B.

#### Section 110.12(e) – Demand Responsive Controlled Receptacles

- Clarify demand responsive controlled receptacles requirement.
- These changes apply to spaces subject to Nonresidential Section 130.5(d) and Multifamily Section 160.6(d).



# **Questions?**





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- Thank you for participating!



# Thank you for participating in today's hearing!

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### Public Assistance with Participation

Public Advisor - Mona Badie publicadvisor@energy.ca.gov

916-957-7910

https://www.energy.ca.gov/about/divisions-and-offices/office-publicadvisor