



2013 Building Energy Efficiency Standards

California Statewide Utility Codes and Standards Program

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IOU Support for 2013 Title 24

- The California Investor Owned Utilities (IOUs) are actively supporting the CEC in developing the state's building energy efficiency standards

IOU Code Change Activity

- 2013 Title 24 Part 6, Base Code
- 2013 Title 24 Part 11, Reach Standard
- Scope
 - Residential
 - Nonresidential
 - Process

Residential Measures

Category	Measure
Envelope	Cool roofs
	Roof insulation
	Advanced building framing and envelope
	Windows
	Compressorless homes
	Infiltration and testing
HVAC	Zone air conditioning
	Ventilation and economizing
	Base case efficiency
	Duct pressure drop and testing
Solar	Solar oriented developments
	Solar ready homes
	Solar water heating
DHW	DHW and distribution systems
	Water heater standing losses
Plug loads	Lighting
	Plug load controls

Nonresidential Measures

Category	Measure
Envelope	Fenestration
	Cool roofs
	Daylighting
Lighting	Indoor lighting, controls, demand response
	Outdoor lighting
HVAC/Water Heating	HVAC efficiency
	HVAC controls and economizing
	Outside air requirements and acceptance testing
	Radiant cooling for retail
	Variable speed single zone
	Reduce HVAC reheat
	Occupancy controls for hotel guest room PTACs
	Chiller efficiency
	ECM motors
	Heat recovery
	Boiler temperature reset controls

Nonresidential Measures

Category	Measure
Refrigeration	Refrigerated warehouse
	Commercial refrigeration systems
Process	Data centers
	Cooling towers - energy and water savings
	VAV labs and fume exhaust
	Kitchen ventilation
	Garage ventilation
	Air compressors
	Boilers
Other	Solar pool heating
	PV ready buildings
	Design phase commissioning
	Acceptance testing - process revisions
	Acceptance testing - proposed tests

IOU Activity

- **Develop CASE reports**
 - proposed draft code language
 - documentation of analysis and assumptions
 - submit to CEC prior to Draft Standards Workshop
- **Hosting stakeholder meetings**
 - as requested by CEC staff
 - get industry input
 - get feedback on code change proposals

Stakeholder Meetings Purpose

- Publicize code change proposals
 - Present:
 - Methodology
 - Technology options
 - Market status
 - Draft code language
 - Gather additional information:
 - Best practices
 - Product/technology availability
 - Market penetration data
 - Cost data
 - Develop CASE code change proposals that are more thoroughly vetted
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Stakeholder Meetings Process

- **First:** present scope (Q2-2010)
 - Code change direction and possible options
 - **Second:** present findings (Q3/4-2010)
 - Results of data collection and analysis
 - Cost effectiveness
 - “Strawman” proposed code language
 - **Third:** present proposed code language (Q1-2011)
 - All meetings can be attended remotely
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www.calcodesgroup.com

This website provides a link to information about all stakeholder activities.

California Utility Codes & Standards Group

01 Home 02 Projects 03 Training 04 Contacts

Click here for the 2011 Code Update Stakeholder Meeting Schedule

About the California Utility Codes & Standards Group

Welcome to the California Utility Codes & Standards Group web site.

Click here to access the [Stakeholder Meeting Schedule for the 2011 Code Update](#).

The group is composed of representatives from Southern California Edison, The Southern California Gas Company, Pacific Gas & Electric, and San Diego Gas & Electric.

Each member of the group has the fiduciary responsibility of managing Codes and Standards program activities within their utility.

Codes & Standards projects are funded by rate payers through the California Public Utilities Commission. The CPUC directs utilities to manage projects which could result in upgrades and enhancements to energy efficiency standards and codes.

The Group coordinates and manages

About the Group

The California Utility Codes & Standards Group is made up of representatives from Southern California Edison, Pacific Gas & Electric, Southern California Edison Company and San Diego Gas & Electric. These utilities are charged with administering California utility ratepayer funded Codes & Standards programs.

Upon clicking through you will get to the CASE topic main page which also provides the stakeholder schedule of all past and upcoming stakeholder events.



CALIFORNIA STATEWIDE
UTILITY CODES AND STANDARDS PROGRAM

2013 Title 24 Codes and Standards Enhancement

The California Investor Owned Utilities (IOUs) are actively supporting the California Energy Commission (CEC) in developing the state's building energy efficiency standard (Title 24). Their joint intent is to achieve significant energy savings through the development of reasonable, responsible, and cost-effective code change proposals for the 2013 code update.

Through Codes and Standards Enhancement (CASE) Studies, the C&S Program provides standards and code-setting bodies with the technical and cost-effectiveness information required to make informed judgments on proposed regulations for promising energy efficiency design practices and technologies.

As part of the IOU effort, we invite you to join our stakeholder process regarding residential and non-residential building energy efficiency topics by clicking on the following link:

[Sign up to receive emails](#)

[Stakeholder meetings for the 2013 Title 24 CASE process](#)

We are collecting specific information from building departments. If you are a building department or code official please visit our [survey page](#).

Title 24 CASE topics

Please follow the link to the Stakeholder Group Meeting webpage for more specific information about CASE measures including upcoming and previous meeting dates, notes and presentations.

Residential Topics

Topic	Description	Stakeholder Group Meeting Webpage
Infiltration and Testing	Proposes a mandatory or prescriptive requirement for maximum infiltration with accompanying infiltration testing (HERS requirement), a requirement for sealed fireplaces and a revision of the Residential ACM to add testing requirements for envelope tightness.	Residential Envelope
Zone Air Conditioning	Proposes improved requirements for zoned HVAC systems and to provide alternatives to the use of bypasses in ducts.	Residential Envelope
Cool Roofs	Focuses on evaluating energy savings if insulation is attached to roof deck. Ceramic tile roof glazing/coatings and other alternatives may also be considered	Residential Envelope
	Investigates complete insulation of ceiling edges by using	

Each topic group lists all the individual CASE topics included and all past and upcoming meetings.

Agendas, presentations and meeting notes are also available



CALIFORNIA STATEWIDE
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**2013 Title 24 Codes and Standards Enhancement
Residential HVAC**

Information about the stakeholder meetings related to Residential HVAC CASE topics can be found in the table below. The location of the meetings, agenda, presentation and meeting notes will be posted as they become available. The Codes and Standards Enhancement (CASE) topics grouped under the heading of Residential HVAC include:

- Zoned A/C
- Residential Duct Efficiency
- Refrigerant Charge
- Residential HVAC Baseline
- Residential Lighting

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Residential HVAC Stakeholder Meetings

All meetings can be attended via webinar if you are unable to attend in person.

Meeting notes and presentations will be posted as they become available.

Date	Location	Documents	Webinar	RSVP (available when applicable)
April 14, 2010	San Ramon	Agenda Presentations Meeting Notes	Webinar	

Contact