



# CSE's Energy Code Coach Program

Empowering Building Departments to Help California Meet ZNE Goals



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Our Mission:

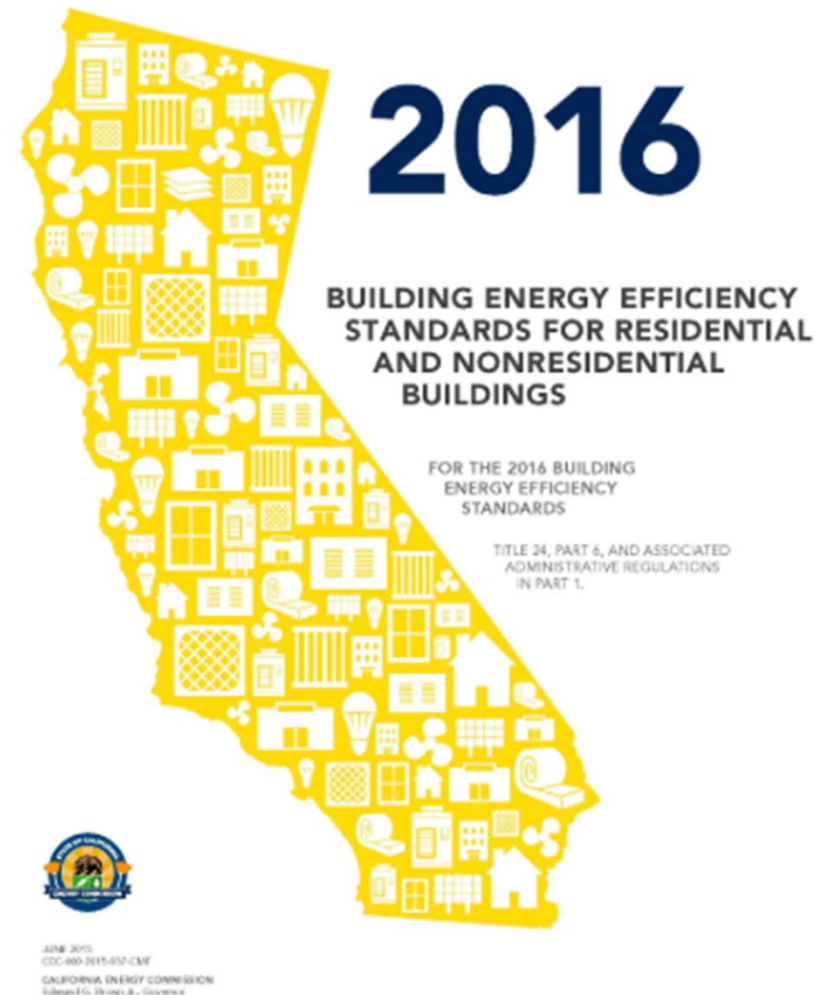
Accelerate the transition  
to a sustainable world  
powered by clean energy

# Overview

- California's Energy and Green Building codes
- Benefits of code compliance and permitting
- Challenges to code enforcement
- CSE's Energy Code Coach Program

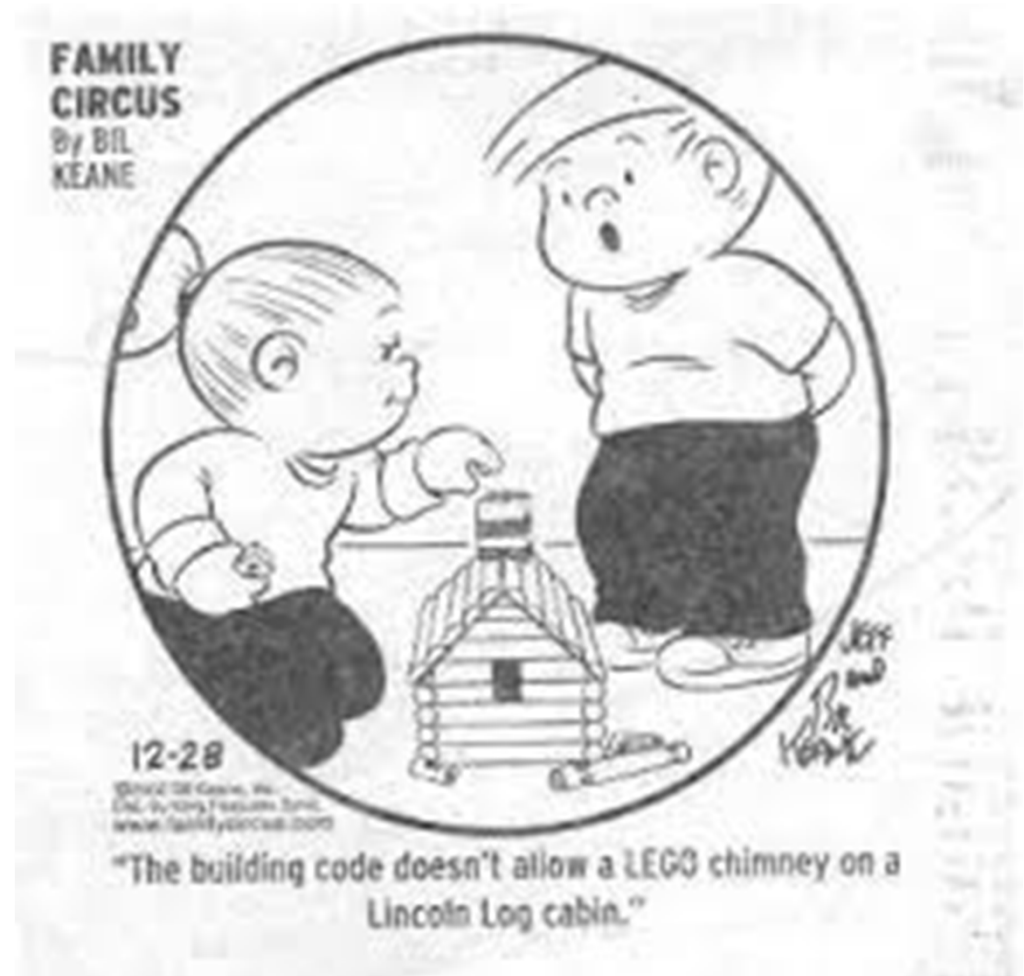
# California's Energy Code

- Enacted in 1978
- Updated every 3 years
- Supports Zero Net Energy (ZNE) goals
- Enforced by local building departments via permit and inspection process



# Benefits of Code Compliance and Permitting

- Ensures quality installation and construction
- Saves energy
- Saves money



# Challenges to Code Enforcement

- Energy and Green Building codes are just 2 of 12 parts in Title 24
- Codes can be complicated
- Staff have limited time for outside training
- Projects vary greatly

# Challenges to Code Enforcement

“...more than 80 percent of the existing code professional workforce is planning on retiring in the next 15 years, with more than 30 percent in the next five years.”

- International Code Council, 2014

# Energy Code Coach Program





# Energy Code Coach in Action

- 1:1 mentoring
- Sustainability Desk staffing
- In-person trainings
- Field support
- Interdepartmental coordination
- Customized tools and resources



# Tools and Resources

- Counter staff cheat sheets
- Plan and inspection correction lists



## Plan Review Report



Rev. 6-18-17

Review Date:		Developer:			
Project:		Architect:			
Project Address:		Mechanical:			
Project Type:/Built		Energy Consult.:			
Climate Zone:/Front		Software used:			
Square Footage:	Ex. 0 Add. 0 Total 0	Notes:			
Stories:/Zones					
Plan Check Date					
Reviewer:					
<b>2016 Energy Code Climate Zone 7</b>	Item Located on Plans (YES/NO)	PLAN REVIEW COMMENTS	T24 REPORT REVIEW & COMMENTS	HERS Mandatory (YES/NO)	
<b>Measure &amp; Minimum</b>	<b>Envelope</b>				
Roof Opt A,B,C - R30					
Radiant Barrier - Req.					
Walls 2x4 wd frame; U-Factor 0.063 = R-15.4					
Slab on Grade					
Raised Floor wd; U-Factor 0.037 = R-19					

# Energy Take-off Sheet

<b>Reviewer:</b>		
<b>2016 Energy Code Climate Zone 7</b>	<b>Item Located on Plans (YES/NO)</b>	<b>PLAN REVIEW COMMENTS</b>
<b>Measure &amp; Minimum</b>	<b>Envelope</b>	
Roof Opt A,B,C - R30		
Radiant Barrier - Req.		
Walls 2x4 wd frame; U-Factor 0.065 = R-15.4		
Slab on Grade		

# Tools and Resources

- Counter staff cheat sheets
- Plan and inspection corrections list
- Updated website content
- Prioritize measures
- Energy Code Ace: <http://energycodeace.com>



# Program Outcomes

- Staff have tools to perform their job more effectively and efficiently
- Staff feel more confident with the standards they are enforcing
- City has increased institutional knowledge
- City has increased data/insight to document progress on Climate Action Plan goals
- Permit applicants are more aware of the energy and green building code sections and how to comply

# Lessons Learned

- Training is more effective when presented one-on-one or hands-on
- Plans examiners and inspectors need support and opportunities to increase collaboration
- Ability to build economies of scale via regional programs

Thanks!

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