Beyond the Energy Code: Exploring the Value of Forging Ahead

7th Annual Statewide Energy Efficiency Forum
June 16, 2016

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Statewide Codes & Standards Reach Code Program
AB 32 Goals

“Energy Efficiency measures for both electricity and natural gas can reduce greenhouse gas emissions significantly”
ZNE Goals

- “A broad range of aggressive and continually improving minimum and higher voluntary sets of energy codes and standards will be adopted to greatly accelerate the widespread deployment of zero-net energy and highly efficient buildings and equipment…”
  - California Energy Efficiency Strategic Plan
## Reach Codes

<table>
<thead>
<tr>
<th>2005 (n=14)</th>
<th>2008 (n=45)</th>
<th>2013 (n=8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Culver City</td>
<td>Belmont</td>
<td>Glendale</td>
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<tr>
<td>La Quinta</td>
<td>Burlingame</td>
<td>Lancaster</td>
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<tr>
<td>Los Altos</td>
<td>Chula Vista</td>
<td>(mandatory PV only)</td>
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<tr>
<td>Los Altos Hills</td>
<td>Cotati</td>
<td>Los Angeles</td>
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<tr>
<td>Marin County</td>
<td>Cupertino</td>
<td>Pasadena</td>
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<td>Mill Valley</td>
<td>Daly City</td>
<td>Palo Alto</td>
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<tr>
<td>Palo Alto</td>
<td>Fremont</td>
<td>San Francisco</td>
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<tr>
<td>Palm Desert</td>
<td>Glendale</td>
<td>San Francisco (pending)</td>
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<tr>
<td>Rohnert Park</td>
<td>Goleta</td>
<td>Sonoma CO</td>
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<td>San Francisco,</td>
<td>Hayward</td>
<td>Sonoma</td>
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<td>San Mateo County</td>
<td>Healdsburg</td>
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<td>Santa Barbara</td>
<td>Lancaster</td>
<td>Tiburon</td>
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<td>Santa Rosa</td>
<td>Malibu</td>
<td>San Anselmo</td>
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<td>Manhattan Beach</td>
<td>San Carlos</td>
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<td>West Sacramento</td>
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<td>Windsor</td>
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<td>Source: <a href="http://www.energy.ca.gov/title24/2013standards/ordinances/">http://www.energy.ca.gov/title24/2013standards/ordinances/</a></td>
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</tbody>
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Ordinance Adoption

Draft Reach Code Ordinance

Conduct Cost-Effectiveness Study

Complete First Reading of Ordinance

File Ordinance with Building Standards Commission

California Energy Commission Consent Calendar

Submit Application to California Energy Commission

Complete Second Reading of Ordinance

Reach Code Legally Enforceable
Jurisdictions often lack resources to prepare cost effectiveness studies for all Climate Zones.
Cost Effectiveness Studies

Performance
- CalGreen Tier 1
- CalGreen Tier 2
- CalGreen Tier 3 “ZNE” (Residential Only)

Measure Specific
- Cool Roof
- Outdoor Lighting
- Radiant Barrier (Roofs)
Statewide Task #2

Reducing GHG is primary driver for jurisdictions & CALGreen

Work with LGC, BayREN, & SoCalREN to leverage CALGreen Tiers as primary source for consistent Reach Codes.
CalGreen Voluntary Tiers can become “preapproved” Reach Codes

Eliminate submitting Reach Code application to the CEC
Statewide Task #3

Jurisdictions often lack resources to track and report outcomes

Develop tools to track, quantify, and report outcomes
Tracking Tools

- Energy Savings & GHG Reduction
  - Help meet individual jurisdiction climate action GHG goals

- Beta Versions available
  - Performance Based
  - Cool Roof
Statewide Task #4

Per CPUC, IOUs cannot advocate for Reach Codes

Work with LGC, BayREN, & SoCalIREN who can advocate for Reach Codes
Reach Code Advocacy

Outreach with local elected officials:

• Reach Codes can mitigate project-level GHG impacts pursuant to CEQA requirements, including Climate Action GHG targets
• Explain the process for developing and adopting a legally enforceable Reach Code pursuant to CEC requirements
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