Opportunities for Above Code Ordinances

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Build It Green

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BayREN Forum

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About Build It Green

Build It Green’s Mission is to help professionals adopt green practices and grow the market for efficient, healthy homes.

BuildItGreen.org
What We’ll Cover Today

- Codes and standards efforts
- Above Code opportunities
- Resources and support
- Timeline
Codes and Standards Efforts

- **Goal:** Engage with local governments to support attainment of local goals and adoption of above code ordinances

- Bay Area Regional Energy Network
  - Coordinating with 9 county Bay Area gov’ts

- PG&E Codes and Standards
  - PG&E territory and coordination State agencies and other IOUs
  - BIG supporting efforts
Goal:
Engage with local governments to support attainment of local goals and adoption of above code ordinances.

Getting to 2050 Goals – AB32

BAU: Business as Usual
California’s Energy Future – The View to 2050
California Council on Science and Technology
The Built Environment

- Residential creates 18% of total greenhouse gas emissions in CA
- Uses 48% energy and residential 21% in US
- Creates 136 million tons of C&D waste each year
- Consumes 10% of potable water and in CA 20% electricity and 30% gas for conveying distribution and treatment of water
- Uses 40% of raw materials globally
- Automobiles and light duty trucks create 30% GHGs in CA
California Policy Decisions

- AB 32 – State plan to reduce greenhouse gas emissions to 1990 levels by 2020
  - Improve 6% of existing homes by 25% each year for 10 years
- CPUC Strategic Plan- by 2020
  - New Homes – Net Zero Energy
  - Existing Homes – 40% improvement
- State Codes and Climate Action Plans
- Above Code & Green Building Ordinances
- Executive Order B-29-15
  - Emergency rule making May 29, 2015
- Executive Order B- 30-15
  - SB 350 and SB 32
Evaluation of Community

Best Available Information

Community characteristics, values, needs

Resources
Opportunities

- In Public Buildings/Projects
- Private Development
- Building Type – Comm/ Res/ SF/MF
- New homes- responsive to current code
- Existing homes – responsive to trigger events
Approach: Energy Efficiency Performance

- % 2016 above code
  - CALGreen Tier 1 – 15%
  - CALGreen Tier 2 – 30%
  - Draft cost effectiveness for Res end of Q1, non-res Q2
- 2016 – ZNE CALGreen Tier
  - Adaptation of software
- New and Existing
Why Single Measures?

- Identify measure that exceed 2016 Code
- Adoption now and implementation through 2016 code cycle
- Continued improvement of buildings
- More stability in implementation
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<tr>
<th>Measure</th>
<th>Cost Effectiveness Study</th>
<th>New Construction</th>
<th>Existing</th>
<th>Single Family</th>
<th>Multifamily</th>
<th>Non-Residential</th>
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Example: Single Measures

- Non Res Outdoor lighting new construction
  - Specific areas

- With interest existing can be pursued
Example: Single Measures

- Cost effectiveness study (completed)
- Swap existing table with updated
- We provide technical assistance for:
  - Adoption Process
  - Implementation
Timeline

**Codes and Standards Team**

- **April 2016**: Feedback and measure identification
- **June 2016**: Draft documents ready
- **July 2016**: Final documents ready
Timeline: Local Jurisdictions

Let’s talk.

What is your adoption timeline?

180 day timeline starts July

Adoption by December

Ordinances effective in 2016?

Effective in 2017?

July 2016

December 2016
Available Support

- Evaluation and identification of opportunities
- Cost effective analysis
- Development of submittal materials
- Training and Tools for implementation and compliance
- Carbon Tracking?
Interested?

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Questions?