



2016 Standards Forum

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California Energy Commission

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EE Policy Background and ZNE Goals

- EE policy background
 - 2007 CEC Integrated Energy Policy Report (IEPR)
 - 2008 CPUC California Long Term EE Strategic Plan
 - 2008 CARB Climate Change Scoping Plan
 - 2008 CPUC/CEC Energy Action Plan Update
 - Governor Brown's Exec. Order B-18-12 for state buildings
- ZNE goals
 - All new low-rise residential construction to be ZNE by 2020
 - All new nonresidential construction to be ZNE by 2030



2016 Standards Approach

- Outcome oriented goals allow for market based solutions and choice
 - Performance focus rather than a specific measure(s)
 - » Assembly U-factor rather than prescriptive assembly
 - Provides for multiple options to achieve compliance
 - Achieve equivalent efficiencies with ingenuity and creativity



Major Changes Being Considered

- High Performance Attics (HPA)
- High Performance Walls (HPW)
- High Efficacy Indoor Lighting
- Water Heating



Continued Development Work

- Cost estimate comparisons and discussion
- Compliance Options
 - Photovoltaics
 - Advanced whole house fans
 - High performance windows



Support for Builders

- Possible utility incentives for integrating High Performance Attics and High Performance Walls into home design prior to effective date of standards
- Exploring how to best provide direct training to trades
- Collaborative Campaign – Work in consort with CBIA to encourage builder participation and satisfaction
- EPIC R&D solicitations
 - Advancing Cleaner, Less Costly, More Reliable Distributed Generation to Enable Customer Solutions and Zero-Net Energy Communities
 - Reducing Costs for Communities and Businesses Through Integrated Demand Side Management and Zero-Net Energy Demonstrations



Beyond the 2016 Rulemaking

- T24 covered loads are getting close to ZNE ready levels
- Increased focus on appliance and plug loads
 - Multiple T20 rulemakings
 - Work with DOE on preempted products
- Details need to be worked out on self-generation
 - May provide additional flexibility to builders
- Improve compliance and consistency across jurisdictions
- Reduce complexity of code and documentation overhead
- Treat multifamily as a separate sector ?
- Existing building potential and focus – AB 758



Discussion

Thank You