



Gaining Synergies Through Energy Provider Participation in Implementing Codes and Standards

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About Southern California Edison

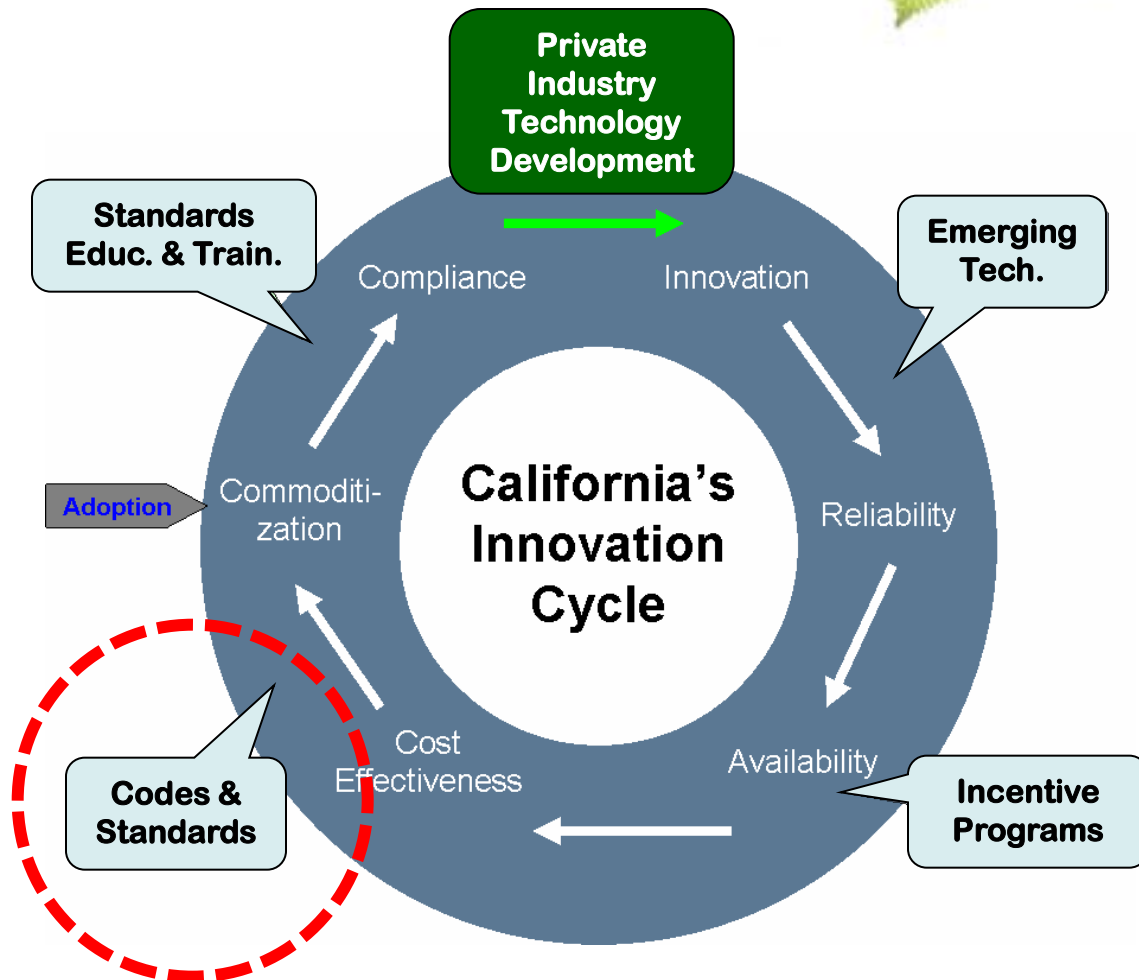
- ❖ **One of the Country's Largest Investor-Owned Utilities**
 - 50,000 square miles
 - 14 million residents
- ❖ **Environmental Leadership**
 - **2007 – 11 EE Results**
 - ✓ More than 8.6 billion kWh— Enough to power over 1.2 million homes for an entire year
 - ✓ Resultant greenhouse gas emission reduction = 3.9 million metric tons -- Equivalent of taking 750,000 cars off the road
- ❖ **A National Leader in Energy Efficiency**
 - 1st or 2nd in the nation for electric energy savings in each of the last 12 years
 - 11 National US EPA ENERGY STAR® Awards



- ✓ **Leading U.S. purchaser of renewable energy**
- ✓ **Largest DR portfolio in California**
- ✓ **Edison SmartConnect™ installing 5 million smart meters**

Overview of California Codes & Standards

- ❖ California has aggressive building codes and appliance efficiency standards
- ❖ Utility EE programs provide technical assistance to State agency consideration of next-generation codes and standards
- ❖ Utilities do not enforce C&S, however they aggressively support “culture of compliance” through various efforts



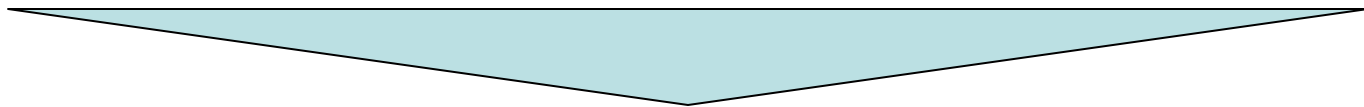
CA Utilities Influence Three Code Areas

California	1. California Building Codes (Title 24) First building codes were adopted in 1978 <ul style="list-style-type: none"> ▪ Updated every 3 to 4 years Recent code activities: <ul style="list-style-type: none"> ▪ Time Dependent Valuation (higher energy value for peak hours) ▪ Refrigerated warehouses; Cool roof requirements updates
	2. California Appliance Regulations (Title 20) First appliance efficiency regulations were adopted in 1976 <ul style="list-style-type: none"> ▪ Updated periodically Recent code adoptions <ul style="list-style-type: none"> ▪ Televisions, battery chargers, walk-in coolers and freezers
Federal	3. Federal Appliance Regulations Federal appliance efficiency regulations are developed by the US DOE and preempt California Title 20 regulations <ul style="list-style-type: none"> ▪ Electric motors, Commercial refrigeration, Incandescent reflector lamps

80% of savings from C&S

CA Utilities Advance Codes & Standards Savings Through EE Programs

- ❖ **C&S Advocacy:** Codes and standards enhancement proposals; Training/activities to increase verified savings from adopted measures
- ❖ **Compliance Enhancement:** Provide training and support for building officials; develop building department best practices; establish certification programs for energy analysts and electrical contractors
- ❖ **Reach Codes:** Provide support to local governments interested in adopting ordinances requiring efficiencies beyond code (generally 15% higher)



- ❖ Utilities are credited with “verified” savings for adopted codes (including reach codes) that they influence
- ❖ In 2010-2012 C&S are projected to account for 19% of the utilities’ total portfolio energy (kWh) savings and 17% of total demand (MW) reduction¹

Local Jurisdictions can adopt “Reach” Codes for Greater Savings

- ❖ Reach codes are a strategy in the California Long-term Energy Efficiency Strategic Plan to help attain the goal of Zero Net Energy buildings
- ❖ Utilities can provide technical assistance to help local governments adopt reach codes, which are voluntary standards that go beyond minimum efficiency requirements in existing codes
- ❖ Approximately 10% of local jurisdictions have adopted reach codes, including:¹
 - **Cities:** *Santa Monica, Malibu, Manhattan Beach, Napa, San Francisco, Oakland, San Jose, and more.*
 - **Counties:** *San Francisco, Marin, Santa Clara, Sonoma*
- ❖ Reach codes provide an opportunity to test the effectiveness of increasing the stringency of existing codes at a local level prior to disseminating the code on a statewide basis
- ❖ Reach codes are a cost-effective way to meet jurisdictional Climate Action Plans

¹Decision Providing Policy Guidance on 2013-2014 EE Portfolios. pp 247; <http://www.energy.ca.gov/title24/2008standards/ordinances/>

Future Utility Participation in Implementing Codes and Standards in CA

- ❖ California utilities will have separate program and C&S savings goals (2013-2014)
- ❖ Utilities will continue to:
 1. Advance the adoption of more stringent code and standards through program advocacy work
 2. Improve code compliance through the Extension of Advocacy and Compliance Enhancement Programs (*education & training of key market actors*)
 3. Provide technical assistance to local jurisdictions for the adoption of Reach Codes
- ❖ Additionally, utilities may:
 - Train the workforce on proper installation and maintenance of code compliant measures
 - Partner with state agencies to augment outreach efforts to educate consumers about the benefits of code compliance
 - *TBD: Pilot incentives to support code compliance (e.g. rebate cost of permit)?*
- ❖ Finally, utilities will remain outside of enforcement role, but continue to encourage culture of compliance through EE program activities



Thank You!!

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