



# **Scaling up Energy Efficiency in Existing Buildings**

**Statewide Energy Efficiency  
Best Practices Forum**

**Sacramento - June 20, 2013**

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**Commissioner  
California Energy Commission**



# McAllister Policy Lead Areas

- Energy Efficiency
  - T24 – New Construction Building Efficiency Standards
  - T20 – Appliance Efficiency Standards
  - AB758 (Skinner, 2009) – CA Comprehensive Energy Upgrade Program for Existing Buildings
  - Proposition 39 Implementation
- Natural Gas Markets
- 2013 IEPR – Integrated Energy Policy Report
  - Demand Response, Zero-Net-Energy Buildings
- Generation Facility Siting Cases



## AB 758 Direction to the CEC

- AB 758 requires the Energy Commission to “Establish greater energy efficiency in existing residential and non-residential structures.” (PRC §25943(a) (1))
- “The comprehensive program may include...energy assessments, building benchmarking, energy ratings, cost-effective energy efficiency improvements, public and private sector energy efficiency financing options, public outreach and education efforts, and green workforce training.” (PRC §25943 (a) (2))



## Existing Buildings – AB 758

- Draft Action Plan: <http://www.energy.ca.gov/ab758/>
- Recommends high-level Strategies, and within each a group of Initiatives
- CEC will work with CPUC/IOUs, POUs, other agencies, local governments, industry and consumer groups to develop and strengthen a variety of approaches
- Great opportunity for comment – feedback from you and your stakeholders is critical!
- Final Action Plan expected to be adopted in Fall 2013



## Existing Buildings – AB 758

### Overarching Themes

- Large gap between existing EE program activity and scale needed to achieve (multiple) policy goals.
- Future cannot be prescribed. Market actors need information, knowledge and support tools to thrive.
- Programs must impose the least administrative burden possible for the market to bring innovation.
- Continue to embrace home performance, at the same time aggressively seek to influence the “reactive” and routine upgrade marketplaces.
  - Leverage all opportunities for influence and messaging.



# AB 758 Strategies

"No Regrets" Strategies	Voluntary Pathways	Potential Mandatory Approaches
<span style="display: inline-block; width: 25%; text-align: center;">↓</span> <b>Strategies</b> <span style="display: inline-block; width: 25%; text-align: center;">↓</span> <b>Strategies</b> <span style="display: inline-block; width: 25%; text-align: center;">↓</span>		
Data reporting and management	Provide broad choice of pathways to encourage more upgrades	Disclosure for largest commercial and public buildings
Permitting support and code enforcement	Engage contractors & building professionals	Broad-coverage disclosure; basic cost-effective upgrades
Education and outreach to building owners/managers	Standardized Assessment Tools	
Training to ensure skilled workforce	Small & medium commercial upgrades	
	Efficiency solutions for rental properties	
	Public sector leadership	
	Account for efficiency in property valuation	
	Offer variety of innovative financing options	



## No-Regrets Strategy #1: Data Reporting and Management

- Simple access to reliable, relevant, longitudinal information is an essential tool for program design and for decision making at all levels
- Various use cases: Agencies, Researchers, Local Governments, Industry, Investors...
- Develop approaches to enable the marketplace to be much more sophisticated in providing upgrades
  - Identify data sources currently available; and package for privacy and appropriate, secure access
  - Actively develop and promote third-party analytical tools for customer engagement
- Explore additional pathways for energy-related disclosure



## No-Regrets Strategy #2: Permitting Support and Code Compliance

- Better understand which installations are not complying with code, and what the savings gaps may be.
- Establish permanent, accessible, ongoing education & training regarding current code.
- Provide and/or facilitate opt-in tools to help LGs manage and streamline permitting.
- Work with local governments and CSLB to improve enforcement of building standards and local energy ordinances.





## AB 758 Draft Action Plan Workshops

- Next Week!
  1. June 24, 2013: San Francisco (CPUC)
  2. June 25, 2013: Fresno (Willow CC Center)
  3. June 28, 2013: Los Angeles (UCLA)

*WebEx enabled for remote participation*
- Written comments encouraged
- Notice & agendas: <http://www.energy.ca.gov/ab758/>



## Proposition 39

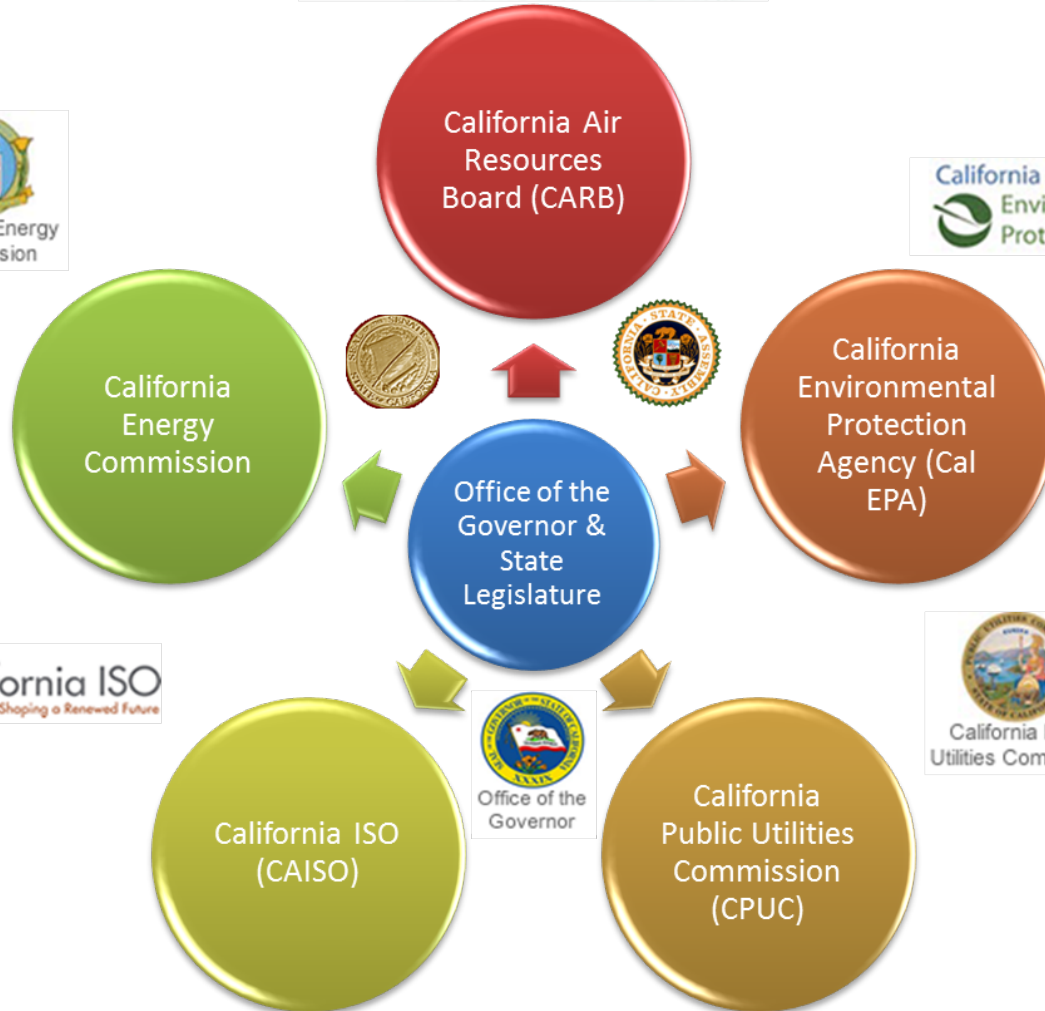
- The California Clean Energy Jobs Act, passed in November
- Prop 39 transfers ~\$550 million annually to the Clean Energy Job Creation Fund, for 5 years beginning FY13–14.
- The California Energy Commission will:
  - Receive \$28 million for year 1 into the ECAA program for low- & no-interest loans for eligible school projects.
  - Establish guidelines for participation, to be adopted publicly.
  - Evaluate and approve expenditure plans submitted by local education agencies.
  - Monitor projects funded by P39 funds.



Thank You!



# State Intergovernmental Collaboration





# Energy Policy Drivers

- Energy Efficiency 1<sup>st</sup> in the Loading Order
- 2006 AB32 California Global Warming Solutions Act
- Zero Net Energy Buildings
  - Newly constructed homes to be ZNE by 2020
  - Newly constructed commercial buildings to be ZNE by 2030
- 2008 Energy Action Plan
- 2008 CA Long Term Energy Efficiency Strategic Plan
- 2010 Governor Brown's Clean Energy Jobs Plan
- 2010 Clean Energy Future Initiative
- 2012 Governor Brown's Executive Order for State Buildings





## Commercial Electricity Consumption with Efficiency Scenarios (GWH)

- 2013-2016 IOU Economic Potential
- 75% Buildings decrease asset energy use by 40% by 2030
- Baseline (CEC Demand Forecast)
- 50% Existing Buildings are ZNE by 2030
- ZNE New Buildings

