



# Ensuring the Promise of Energy Efficiency in California

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California Public Utilities Commission

World Forum on Energy Regulation IV  
Athens, Greece  
October 18 - 21, 2009

# Energy Efficiency and Procurement



## “Loading Order” for Electric Resource Procurement:

1. Energy efficiency
2. Demand response
3. Distributed generation
4. Renewable generation
5. Cleanest available fossil resources

Utilities must demonstrate consistency with loading order when filing their Procurement Plans



# Unlocking The Efficiency Resource

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- **Clear Policy**
  - Efficiency linked to resource planning through specific annual and cumulative savings goals
- **Firm Standards**
  - Building and Appliance Standards in step with utility programs
- **Adequate Financial Mechanisms and Funding**
  - Decoupling sales from revenues; Performance incentives
- **Evaluation Measurement and Verification**
  - Independent analysis of achievements

# California Efficiency Goals

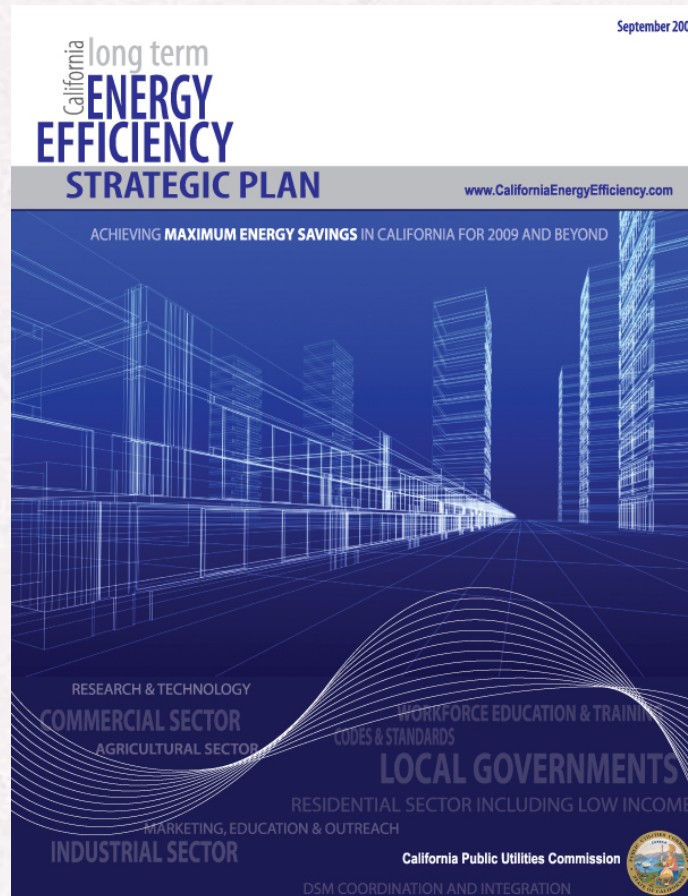
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- **30,000 GWh by 2020**
  - Scoping Plan to AB 32, California's Global Warming Solutions Act of 2006.
- **Zero Net Energy**
  - All new residential homes by 2020, Commercial by 2030
- **Energy Efficiency Retrofits**
  - Energy consumption in existing homes will be reduced by 20% by 2015 and 40% by 2020
- **Low Income Energy Efficiency**
  - All eligible low income households will benefit from LIEE program offerings by 2020.



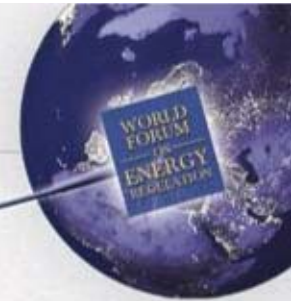
# The California Long Term Energy Efficiency Strategic Plan



[www.CaliforniaEnergyEfficiency.com](http://www.CaliforniaEnergyEfficiency.com)

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# Goals Example: COMMERCIAL



1.	New construction will increasingly embrace zero net energy performance including clean, on-site distributed generation, reaching 100 percent penetration of new starts in 2030.	➔	An increasing percentage of the 50-120 million sq. ft./ year of new commercial construction will be progressively more efficient; all new construction ZNE by 2030.
2.	50% existing buildings equivalent to ZNE buildings by 2030 through deep efficiency & clean DG.	➔	250 million square feet (1/20th of existing space) per year through 2030 reach deep levels of energy efficiency improvements through whole building approaches.
3.	Commercial lighting will transform to high-efficiency, high-performance technologies, pushed by state & national codes and standards.	➔	Utilities will phase out mass market CFL bulb promotions, shifting focus to new technologies & innovations to long-life solutions & higher consumer uptake.

# Following Through with the Plan

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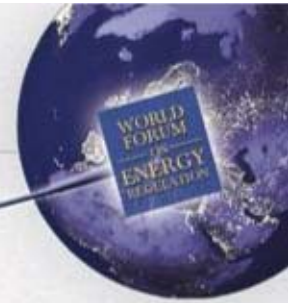


- **2010-2012 Utility Programs**
  - Decision issued September, 2009
  - Available at: [www.CaliforniaEnergyEfficiency.com](http://www.CaliforniaEnergyEfficiency.com)
  - Approves \$2.9 billion of ratepayer-support over 3 years
  - Establishes 12 statewide programs
  - Launches broad-scale residential retrofit initiative (20% savings in 130,00 homes by 2012)
  - Refreshes California's approach to capturing savings in lighting
- **EE Web Portal**
- **Statewide Branding Effort**



# Key Elements of Successful EM&V

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- **Timing**
  - Evaluation must inform decision-making on a relevant timescale
- **Simplicity**
  - Evaluation must be understood by non-expert audiences
- **Transparency**
  - Transparency supports credibility and dispute resolution.
- **Objectivity**
  - Independence is essential, particularly when money is at stake.