Existing Buildings Energy Efficiency
Draft Action Plan

California Energy Commission

Efficiency Division, Existing Buildings Unit

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Vision

• Robust and sustainable efficiency markets deliver multiple benefits to building owners and occupants through improvements, investments and operation of existing homes, businesses, and public buildings.

• Resulting in: Doubling of energy savings in California’s buildings

Source: http://www.greenhomelosangeles.com/
Action Plan Framework

1. Proactive and informed government leadership in energy efficiency
   - 1.1 State and School Buildings
   - 1.2 Benchmarking and Disclosure
   - 1.3 Building Performance Assessment Tools
   - 1.4 Energy Asset Ratings
   - 1.5 Building Energy Efficiency Standards
   - 1.6 Plug Load Efficiency
   - 1.7 Local Government Leadership
   - 1.8 Efficiency as a Clean Energy Resource
   - 1.9 Existing Building Efficiency Collaborative

2. Data drives informed decisions
   - 2.1 Data for Improved Decisions
   - 2.2 Customer Focused Energy Efficiency

3. Building industry delivers innovation and performance
   - 3.1 Streamlined and Profitable Industry
   - 3.2 Performance Driven Value
   - 3.3 High Performance Workforce and Education
   - 3.4 Zero Net Energy Retrofits

4. Californians recognize and benefit from the value of efficiency upgrades
   - 4.1 Real Estate Value
   - 4.2 Marketing, Education and Outreach

5. Solutions are accessible and affordable for all Californians
   - 5.1 Foster Private Capital Market
   - 5.2 Asset Based Financing
   - 5.3 Borrower-Based Financing
   - 5.4 Integrated Delivery of Efficiency Solutions, Finance & Utility Incentives
   - 5.5 Government Building Finance Mechanisms
   - 5.6 Leveled Tax Playing Field
   - 5.7 Deeper Subsidies for Low Income Households
Strategies Leveraging Local Governments

Strategies

1.2.3 Benchmarking & Reporting Infrastructure Development
1.5 Building Efficiency Standards Development and Compliance
1.6.5 Plug load management programs
1.6.7 Purchase Agreements
1.7 Local Government Leadership
1.9.2 Agency Coordination and Stakeholder Engagement
2.1.4 Data for Local Government Use
2.1.8 Energy Data Center
2.1.10 Local Area Load Forecasting Methodology
2.2 Consumer-Focused Energy Efficiency
2.2.5 Strategic Energy Planning
3.1.1 Sustainable and Effective Program Delivery
3.2.2 Incentives Tied to Performance
3.3 High Performance Workforce, Education, and Training (WE&T)
4.1.1 Pilot Energy Asset Ratings with the Real Estate Industry
4.1.3 Energy Efficiency Appraisals
4.1.5 Green Leases
Strategies Leveraging Local Governments

Strategies cont.

4.2.1 Decision-Maker Focused Marketing and Outreach
5.1 Foster Private Capital Market
5.2 Asset-Based Financing
5.3 Borrower-Based Financing
5.4 Integrated and streamlined delivery of efficiency solutions, finance, and utility incentives
5.5 Government Building Finance Mechanisms
5.7 Establish deeper subsidies for full participation by low-income households
BES Compliance Improvement For Existing Buildings

1.5.5 Understand the compliance shortfall: Work with Local Governments (LG), manufacturers, and contractors to determine compliance gap and understand the role of permitting, and the needs of building departments.

1.5.6 Pilot Programs: Evaluate impact of LG online permitting and serial number tracking pilots on process, cost reductions and installation quality.

1.5.7 Compliance Plan: Based on research findings and pilot experience, develop a compliance strategic plan with Best Practices for EE permitting.

1.5.8 Serial Number Tracking: If indicated as a critical resource for compliance improvement, establish HVAC equipment serial number tracking database.
1.7 Local Government Leadership

1.7.1 Challenge Program: Develop a Local Government Challenge Program with technical assistance and support through a competitive grant process. Include cities, counties, joint power authorities, metropolitan planning organizations, councils of governments and other local government consortia. Award assistance based on LG actions and adoption of policies for aggressive energy efficiency, disclosure, compliance and permitting.

- Include LGs with POUs; ensure geographic and size diversity
- Work with leading LGs on local benchmarking and upgrade programs.
- Create a repository of Best Practices and Lessons Learned that can be readily shared.
- Encourage data-driven local policy and targeted actions.
- Develop innovative ways to increase code compliance.
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http://www.energy.ca.gov/ab758/documents/index.html