



Comprehensive Energy Efficiency Program for Existing Residential and Nonresidential Buildings (AB 758): Progress Update

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Progress Update

- 2 work authorizations currently in review

- Nonresidential needs assessment

- BEARS (Building Energy Asset Rating System)

- Residential needs assessment

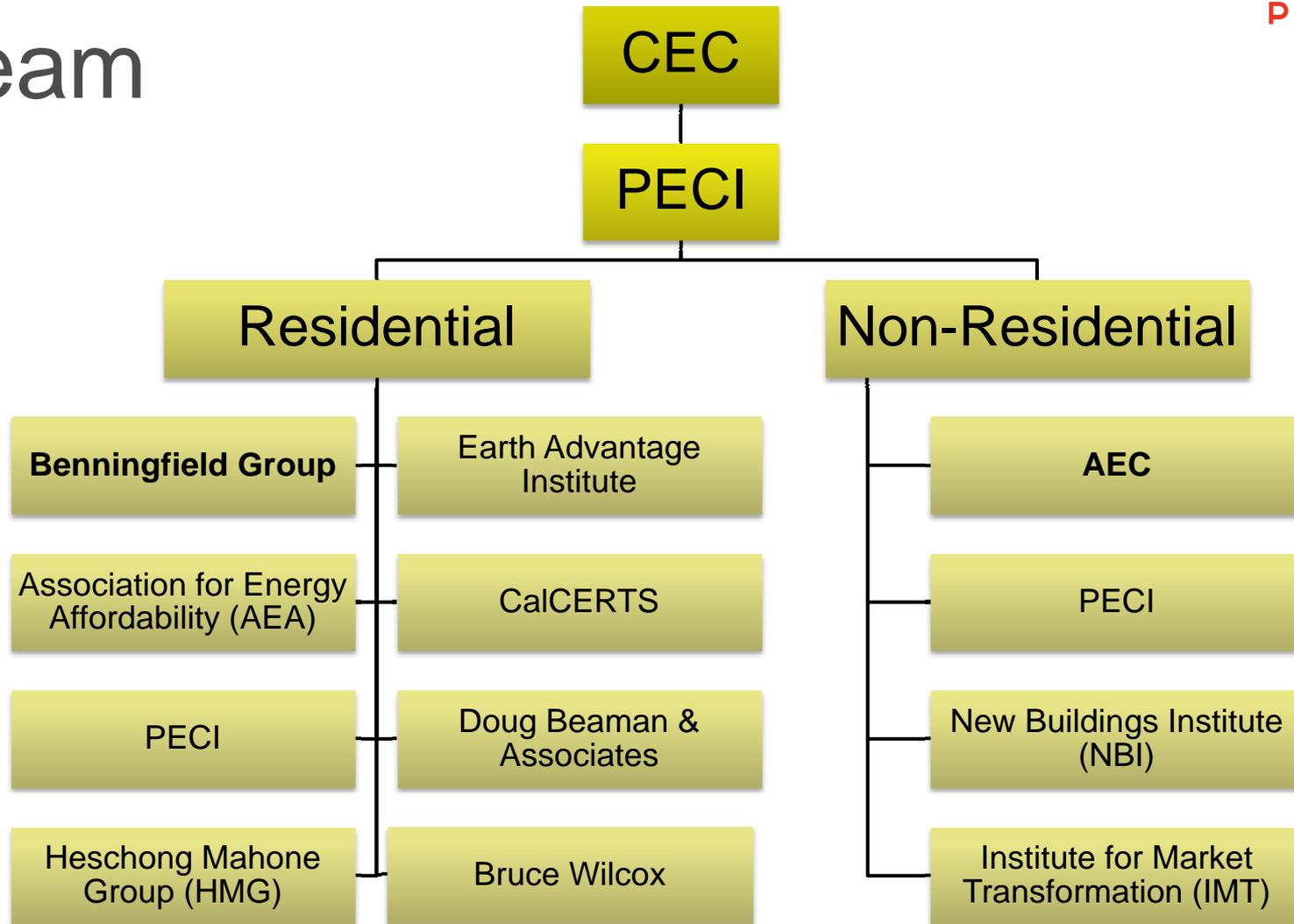
- HERS improvements

- Affordable housing

- Compliance and enforcement

- Estimated completion date: June 2012

Team



Outreach & Field Support:
Bedrosian & Associates
Robert Thomas Brown Co.

Needs Assessments

- Estimated Schedule: Aug. – Dec. 2011
- Goal: Develop *Action Plan* for the Program
- Key tasks:
 - Interview 15-20 stakeholders
 - Assess market data
 - Identify success metrics
 - Host a series of public workshops

Measuring AB 758 Success

- Contribution to Zero Net Energy goals
- Market transformation
 - Overcome identified barriers to change
 - Qualified workforce to meet the demand
 - Finance mechanisms in place
 - Create demand for EE services
- Rating and disclosure programs
 - Uptake and financial impacts
 - Effectiveness in promoting deeper investments in EE

Nonresidential



Areas of Focus - Nonresidential



- Financing
 - New tools that motivate commercial owners and enable financed upgrades
 - Municipal financing
 - Utility on-bill financing programs
 - Leverage work recently completed
 - CEC's *Achieving Energy Savings in California Buildings* (July 2011)
 - CPUC's *Energy Efficiency Financing in California – Needs and Gaps – Preliminary Assessment and Recommendations* (July 8, 2011)

Areas of Focus – Nonresidential (Cont'd)



- Workforce development
 - Meeting the demand for building rating and upgrade services
 - Certifications and training
 - Clean Energy Workforce Training programs (ARRA)
 - State Energy Program efforts
 - Community college and apprentice programs
 - Assessment of success and uptake of efforts underway
 - Gaps or bottlenecks in existing programs

Areas of Focus – Nonresidential (Cont'd)



- Rating, disclosure, and efficiency programs
 - Influencing decision making and deeper investments in EE
 - Assessment of regional and national trends, requirements, and programs, e.g.:
 - DOE national asset rating development
 - ASHRAE's Building EQ
 - COMNET
 - ASTM Energy Performance Disclosure Standard (ASTM 2797)
 - Local requirements and mandates for building ratings & benchmarking
 - Building Energy Asset Rating System (BEARS) development
 - Leverage PIER work completed for asset performance assessments
 - Filling the identified gaps

Residential



Areas of Focus - Residential



- Financing
 - Removing barriers to EE upgrades in affording housing projects
 - Tax credits; applicability of the CUAC
 - Continuity across programs
 - Potential pilots to demonstrate expanded applicability of CUAC
 - SDG&E, SMUD, ABAG territories
 - Leverage work recently completed
 - CPUC's *Energy Efficiency Financing in California – Needs and Gaps – Preliminary Assessment and Recommendations* (July 8, 2011)

Areas of Focus – Residential (Cont'd)



- Workforce development
 - Creating a sustainable workforce
 - Meeting the demand for upgrade services
 - Certifications and qualifications
 - Assessment of whole-house training vs. specialized training
 - Leverage UC report: *CA Workforce Education and Training Needs Assessment*

Areas of Focus – Residential (Cont'd)

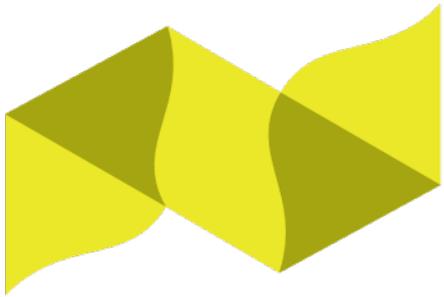


- Rating and disclosure programs
 - Regional and national trends, requirements, and programs, e.g.:
 - US DOE's Home Energy Score HES)
 - Energy Trust's Energy Performance Score (EPS)
 - HERS II - potential improvements

Areas of Focus – Residential (Cont'd)



- Incentive Programs
 - Potential new strategies
- Codes and Standards compliance improvements
 - Needs and current efforts
 - Metrics for estimating success



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