



California Commissioning Collaborative

CCC Policy Initiative Proposed Next Steps

Presented by:
Jim Flanagan

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POV Process

- January: Advisory Council brainstorm and prioritization of key policy issues
- March: Review of draft POV document; clarification of individual issues, support and CCC POV
- April-May: Incorporate AC comments; define and begin addressing next steps

POV Overview

Cx and RCx in Building Standards

- Require Building and/or System-Level Monitoring in Title 24 Standards for New Commercial Buildings.
- Improve Compliance with Title 24 Acceptance Test Requirements.

Short-Term CPUC Policy Opportunities

- Develop Standardized Approaches to Savings Calculations And Minimum M&V Requirements For Common RCx Measures.
- Improve Estimates of RCx Measure Life and Increase Savings Performance.
- Agree on Minimum Data Requirements for Impact Evaluation of DSM

POV Overview

Long-Term CPUC Policy Opportunities

- Demonstrate the Value of Continuous Monitoring and the Use of Performance Metrics for Major End Uses to Building Owners and Regulators.
- Encourage the CPUC to a Systems-Based Approach to Measuring and Incentivizing Complex RCx Projects at Large Facilities.
- Seek to Clarify Requirements and Incentives for Integrating DR, DG, Solar, and RCx Under Utility Programs Using a Sensible Loading Order.

POV Overview

Expand Cx Provider and Market Capacity

- Standardize Commissioning Technician Roles, Responsibilities, and Education and Training Requirements.
- Standardize HVAC System Control Sequences.

Overarching Topics

- Commissioning-Related Impacts in the California Long-Term Energy Efficiency Strategic Plan (CLTEESP)
- Commissioning for Occupant Comfort in New and Existing Buildings

Acceptance Testing Compliance

- Primarily an educational effort with policy support.
- CALBO Survey
- Savings By Design programs
- Coordinate with CCC PIER Project 6
- Advise CEC on 2011 Title 24 AT requirements

2011 Title 24 – Metering Requirements

- Coordinate with PG&E – planning CASE study on HVAC system metering
- Informal survey of RCx providers
- Leverage results from CCC PIER Project 4
- Review and summarize other metering standards and guidelines to inform proposal

Workforce Education and Training (WE&T)

CEC State Energy Program

- SEP Application submitted to DOE May 5, 2009
- Education Component = \$20M
- Technical / vocational / apprenticeship focus
- Attended SEP workshop. Stressed importance of including training and career paths for Green Professionals also

CPUC Strategic Plan WE&T Group

- Released RFP for Needs Assessment

Financing

CA Long-Term EE Strategic Plan

- Finance Task Force (est. Summer 2009)

CEC ARRA Funding

- Potential financing options similar to AB 811 to encourage comprehensive retrofits.
- Possibly provide loan guarantees to reduce interest rates on bonds

Integrated Energy Policy Report (IEPR) Update

Monitor RCx-related activities

- EE Measurement and Attribution Project
- AB 2021 Goal Status (POU Efficiency)

Demonstrate the Value of Continuous Monitoring and Performance Metrics

- Background search of ongoing best practices
- Prioritize and agree upon systems definitions and min metering requirements.
- Develop correlations with systems metrics and overall consumption for accuracy.
- Promote the use of standard systems monitoring internally and within member service territories

Encourage the CPUC to use a Systems-Based Approach

Combine previous task with development of whole building consumption based model.

- Promote model with CPUC regulators
- Determine CCC party status
- Write and review formal filings to CPUC dockets
 - Energy Division White Paper Proceeding: A08-07-021
 - Post comments on CPUC Public Review Roundtable Site.
- Comment on SBW HIM plan.

Integrating DR, DG, Solar and RCx

- Search integrated projects and case studies that differentiate savings and costs.
- Select and promote a model and features that best address issues.
- Develop case study or pilot utility or PIER projects that incorporate selected features.

Standardized Savings Calculations And Minimum M&V Requirements

- Background search for standardization and savings calculations
- Prioritize and select best practices based on research.
- Promulgate findings within CA utilities and at CPUC

Measure Life Estimates and Savings Persistence

- Background search of utilities and state agencies.
- Summarize current practices at CA utilities.
- Identify and agree upon possible improvements and goals.
 - Promote further research: PIER/CEC
 - Support implementation of changes via CPUC filings and comments.

Minimum Data Requirements for Impact Evaluation

- Identify Best Practices within CA and nationwide.
- Promote PIER research on minimum data requirements.
- Monitor and participate in ASHRAE short term metering study.
- Provide comments via CPUC Roundtable Site.

For More Information

CEC-Related policy issues

- Misti Bruceri, mistib@comcast.net

CPUC-related policy issues

- Jim Flanagan, jimflanagan4@mac.com