



Whole Building Performance Committee

**Energy Information Systems that Enable
Continuous Facility Energy Monitoring &
Improvement**

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Agenda

- ▶ Introductions & Background
- ▶ Presentation: Energy Information Systems, Market Research & Organizational Framework
- ▶ Program Panel Respondents
- ▶ Group Discussion & Deliberation

Background – CEE Whole Building Performance Exploration

- ▶ **Goal:** *To develop the bi-national infrastructure to encourage and enable effective implementation of whole-building commercial energy-efficiency programs*
- ▶ Major 2010 Objectives:
 1. Benchmarking: Identify, document the value of WB benchmarking for efficiency programs, major program design considerations, and current program examples/resources.
 2. Benchmarking: Map different program benchmarking objectives and the levels of precision required from benchmarking tools to meet those objectives.

Background – CEE Whole Building Performance Exploration

▼ Major 2010 Objectives (cont.):

3. “Continuous Commissioning”: Identify common, national-level program infrastructure needs and leverage points that enable comparability of program outcomes and design considerations.
4. “Energy management systems”: Identify common DSM objectives that can be served by enabling systems (e.g., EIS) and identify national specifications or other products to support these objectives.

Session Objectives

- ▶ To build an understanding of energy information systems (EIS), common elements, system functions, and features, and state of the market.
- ▶ To understand and identify DSM program objectives and approaches that EIS enable, current ways they are being used by programs and critical system features/functions.
- ▶ To identify common program objectives and any national activities and outcomes that support them.

Today's Desired Outcomes

- ▶ Identify definitions for “building energy information systems” and terms that should be centrally defined at CEE.
- ▶ Capture, document a common set of DSM program objectives that are enabled by building energy information systems.
- ▶ Capture, document critical system features and functions.
- ▶ Identify any discrete opportunities in the EIS space that lend themselves to a national specification or other approach.

Presenter

▼ Rish Ghatikar

- Systems and Business Analyst, Building Technologies Department at Berkeley Lab

▼ Topics

- Scope and objectives of the EIS research?
- What are EIS?
- What is the state of the market?
- What are the results - similarities in function, features, energy savings potential?
- Future research and next steps?

Efficiency Program Respondents

- ▶ Kim Crossman, Energy Trust of Oregon; Keith Forsman, PG&E; Lucie Sidibe, SDG&E
- ▶ Topics
 - What program objectives do EIS help you serve?
 - What program services/offerings are “wrapped” around EIS systems or being considered? Direct incentives or other support?
 - How do you define, characterize the program(s)?
 - Are there critical EIS system features or functions that enable the program objectives?
 - Next steps? Challenges? National coordination roles?

Discussion

- ▼ **Common Definitions, Framework:** Can we building on initial EIS definitions and framework to make it as meaningful and actionable as possible for efficiency programs? Terms to flesh out, define to enable program designers to orient to market and allow program comparison?
- ▼ **Objectives:** What are the DSM program objectives enabled? Are there common objectives, opportunities and challenges?
- ▼ **Desired System Functions/Features:** Are there particular system features or information outputs that are critical to support program objectives?
- ▼ **Collective Program Needs:** National-level activities or products (e.g., definitions, feature based specifications) that would be a building block for an energy management or continuous improvement program? Additional research needs?