



Energy Management at CEE Fostering Program Support for Continuous Energy Improvement

June 4, 2009

Boston, MA



Committee Background

- ▶ In 2007, CEE launched the **Industrial Program Planning Committee** to:
 - provide a forum for members to share program strategies in the industrial sector
 - tap into the collective experience of member industrial efficiency programs
 - identify and prioritize industrial opportunities (by sector, process, cross-cutting)
 - recommend program strategies, as appropriate
- ▶ One of five active industrial committees at CEE

Initial Committee Findings

- ▶ Energy management was identified as an attractive, cross-cutting opportunity for industrial programs
 - Availability of supporting resources from DOE, EPA,
 - Development of energy management standard through ISO and Plant Energy Efficiency Certification
 - Area of interest and activity for many programs
- ▶ Formed an Energy Management SubCommittee to explore the opportunity for programs

Accelerating Energy Savings

End-Use Focus

- ▶ Motors, Drives, Lighting
- ▶ Compressed Air
- ▶ Pump Systems
- ▶ Fans & Blowers
- ▶ Refrigeration
- ▶ Steam, Boilers
- ▶ Process Heating
- ▶ Process Controls
- ▶ Mechanical Pulping
- ▶ Co-Generation

Management-Based Initiative

- ▶ Commitment to energy mgmt.
- ▶ Establishing energy champions and energy teams
- ▶ Assessments - technical, business
- ▶ Developing measurable key performance indicators
- ▶ Action planning using KPIs
- ▶ Supporting internal energy awareness and training
- ▶ Project implementation
- ▶ Recognizing Achievements
- ▶ Re-assessment of KPI's

Market Sector Focus

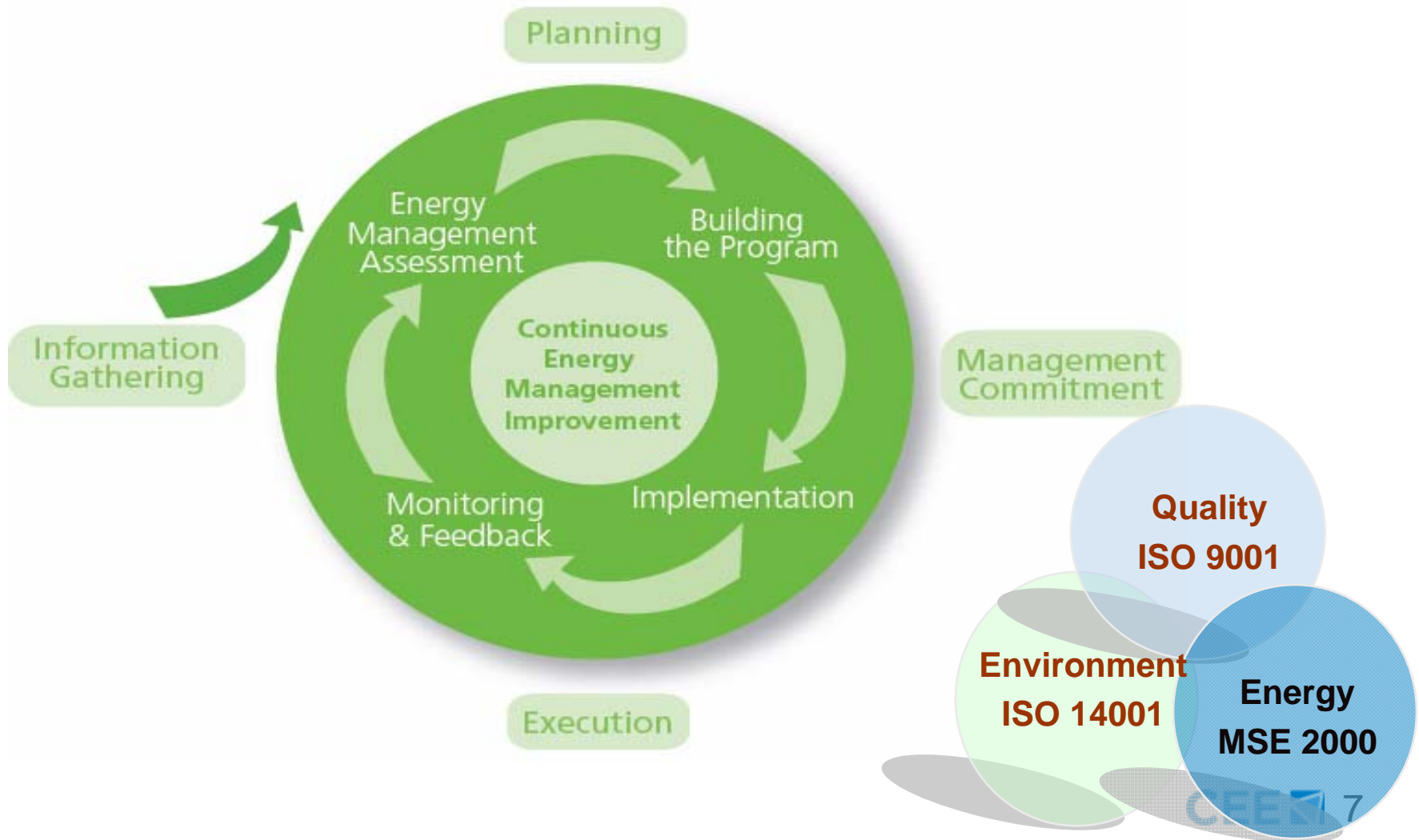
Program Models for Energy Management



Members Interest in Energy Management Programs

- ▼ BC Hydro
- ▼ ComEd
- ▼ Energy Trust of Oregon
- ▼ NEEA
- ▼ NV Energy
- ▼ NYSERDA
- ▼ Ohio
- ▼ Ontario Power Authority
- ▼ PG&E
- ▼ Puget Sound Energy
- ▼ SCE
- ▼ SDG&E
- ▼ WI FOE
- ▼ Xcel Energy

For Example: BC Hydro's Sustainable Energy Management Program



International Energy Management Standard

▶ **The future ISO 50001 will:**

- Establish a framework for industrial plants, commercial facilities or entire organizations to manage energy
- Have broad applicability across national economic sectors, potentially influence up to 60 % of the world's energy use.

Energy Management Standard Scope

- ▶ Standardization in the field of energy management, including:
 - energy supply,
 - procurement practices for energy using equipment and systems,
 - energy use, and
 - any use-related disposal issues.
- ▶ Implementation of a measurement system to document, report, and validate continuous improvement

Industrial Program Planning Energy Management Subcommittee

- ▼ Kept members informed of national and international activities related to the development of an energy management standard (e.g., ISO 50001)
 - Providing a forum to discuss the potential implications of an energy management standard on efficiency programs
 - Identifying opportunities for members to provide input as appropriate
 - Highlighting member experiences, identifying specific energy management program components, and cataloging supporting resources

Relevance to Members

- ▶ CEE members can use the standard as an opportunity to market EE programs to their customers
 - New ISO Standard offers another avenue for interaction with customers on EE savings opportunities
 - ISO standard offers annual EE savings opportunities – continual improvement
 - Initial discussions can take place now, Standard will not be final until 2011
 - DOE's Superior Energy Performance Program provides framework and support for manufacturers to achieve validated, continual energy intensity improvement

Relevance to Members

▶ Benefits to Programs Who Act Early

- Identify potential customers (already ISO compliant, “Green” Vision, customer demand, competitiveness opportunity)
- Build expertise in the standard and in specific customer segments, then offer technical assistance to achieve savings and ISO conformance
- Provide easy access to energy usage baseline information
- Use associations to drive success within an industry
- Leverage success of one project to drive future energy savings opportunities with each customer

Energy Management Standard

Next Steps

- ▶ The US TAG will be meeting in Kansas City in August to go through each section of the Working Draft and preparing our comments.
- ▶ In October the US TAG will be meeting again to prepare our strategy for the next ISO meeting, which will be held in November.
- ▶ Anticipated outcome of the November meeting is Draft International Standard (DIS)
- ▶ Final document available in early to mid 2011.

Opportunity for Programs

- ▶ The time to suggest changes is now. Once it goes to DIS the only changes will be grammar and structure, not content.
- ▶ The August meeting is where the TAG will address US issues with the working draft, a good time for suggestions.

Committee Next Steps

- ▶ Work with a subcommittee of members to review a draft of the standard from a program administrator's perspective
- ▶ Brief the full committee
- ▶ Provide the committee an opportunity to discuss the draft and raise any questions or concerns
- ▶ Provide input as appropriate

▶ **ANY VOLUNTEERS?**

