



Update on ISO 50001, Energy Management Standard

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Why an Energy Management Standard?

- Most energy efficiency in industry is achieved through changes in *how energy is managed* in a facility, rather than through installation of new technologies;
- An energy management standard provides a method for integrating energy efficiency into existing industrial or commercial management systems for continuous improvement;
- All existing and planned energy management standards are compatible with ISO 9000/14000¹;
- Companies who have voluntarily adopted an energy management plan (a central feature of an EnMS – Standard) have achieved major energy intensity improvements².

1 International Organization for Standardization (ISO)

2 Btu/lb of product



Business Benefits

Implementation of an energy management plan assists a company to:

- Develop a baseline of energy use
- Actively managing energy use and costs
- Reduce emissions without negative effect on operations
- Continue to improve energy use/product output over time
- Document savings for internal and external use (e.g. emission credits)



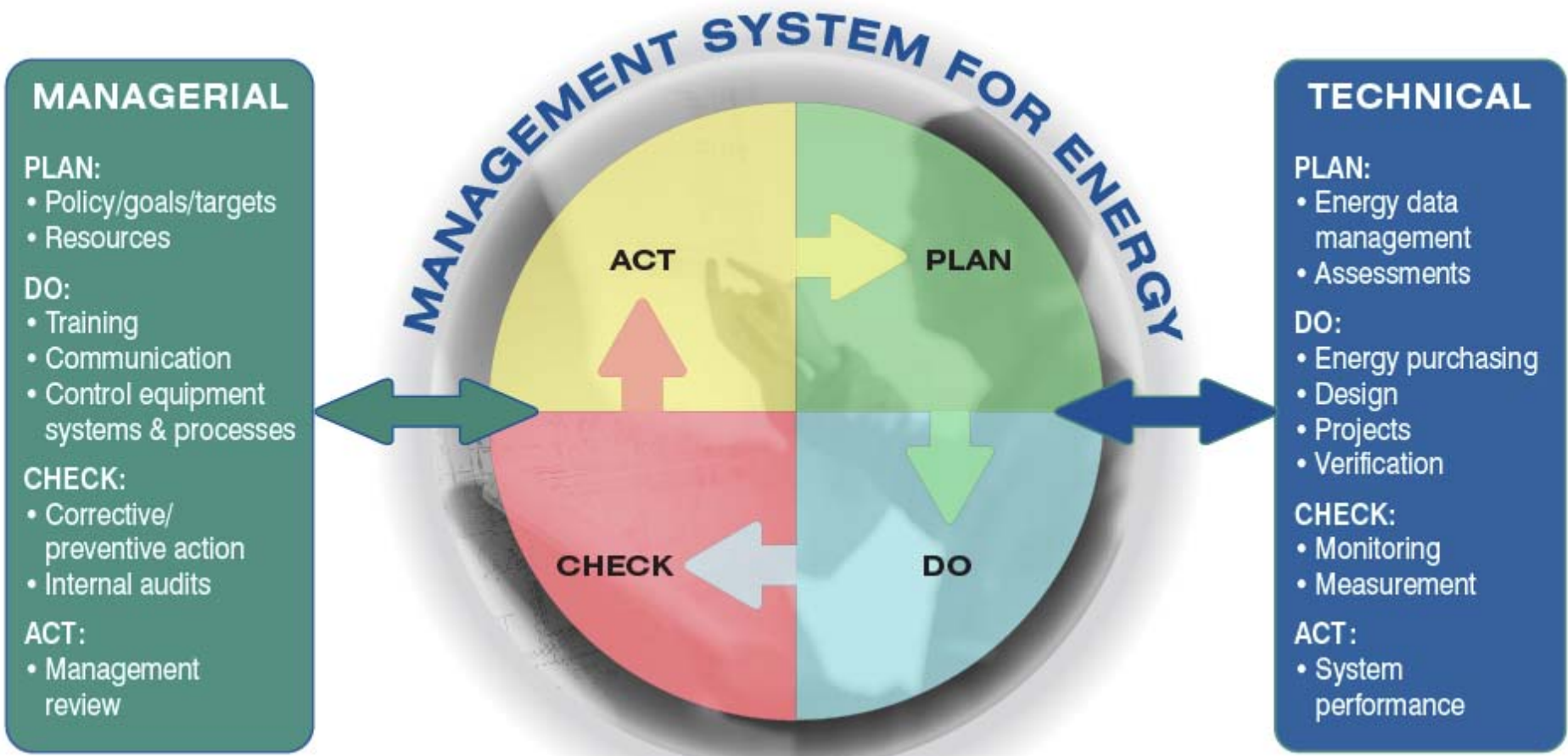
Energy Management System (EnMS) Standards

Current Status

- Several countries already have national energy management standards (Denmark, Ireland, Sweden, US, Thailand, Korea)
- The EU has developed a regional energy management standard
- Energy management standards are under development in China, Spain, and Brazil
- ISO has initiated work on an international energy management standard (2008-2011), with preparatory assistance from the United Nations Industrial Development Organization (UNIDO)



ANSI/ MSE 2000:2008



www.ansi.org



Toward an International EnMS Standard

March 2007

- UNIDO hosted the first meeting to put forward the idea of an energy management standard, sends request to ISO on behalf of participants

April 2007

- Request accepted by ISO Secretariat
- UNIDO initiated a program to foster coordination between developing and developed countries for the development of an international standard (regional meetings, industry surveys)

Sept 2007

- ANSI (U.S.) / ABNT (Brazil) leadership proposal submitted to the ISO

Feb 2008

- Proposal approved by ISO Technical Management Board

April 2008

- Preparatory meeting in Beijing hosted by UNIDO and Standardization Administration of China



Beijing Working Group Meeting

April 2008, UNIDO and the Standardization Administration of China (SAC) hosted meeting in Beijing to facilitate harmonization of existing national standards:

- 58 energy management and standards experts from 14 countries participated, including the leadership organizations for PC 242, UNIDO, and ISO Secretariat
- Key Input: U.S. provided summary Comparison of National Energy Management Standards (Georgia Tech and LBNL)
- Key Output: UNIDO/SAC Framework for Action



ISO 50001- Energy Management System

Scope (From the New Work Item Proposal)

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.

The standard will also address measurement of current energy usage, and implementation of a measurement system to document, report, and validate continuous improvement in the area of energy management.



ISO Project Committee 242

September 8-10, 2008, 1st PC 242 Meeting in
Arlington, VA

- 90 participants from 25 countries from all regions of the world, as well as UNIDO, which has liaison status
- Participating countries have existing activities on energy management and strong interest in developing a harmonized international standard
- Key decision to base standard on the common elements found in all of ISO's management system standards (e.g. 9001, 14001) to ensure maximum compatibility
- Two-year accelerated schedule to have ISO 50001 ready for publication by the end of 2010



ISO Project Committee 242

Committee Chair:

American National Standards Institute (ANSI)

Committee Secretariat:

American National Standards Institute (ANSI)

Associação Brasileira de Normas Técnicas (ABNT)

Additional leadership roles:

British Standards Institute (BSI)

Standardization Administration of China (SAC)

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.



ISO Project Committee 242

ISO Secretary-General Alan Bryden:

"This first meeting of PC 242 marks the launch of a new global approach to systematically address energy performance in organizations – pragmatically addressing energy efficiency and related climate change impacts. It is fully in line with and supportive of the global mobilization on these major challenges, and with the IEA-ISO position paper on the contribution of International Standards."

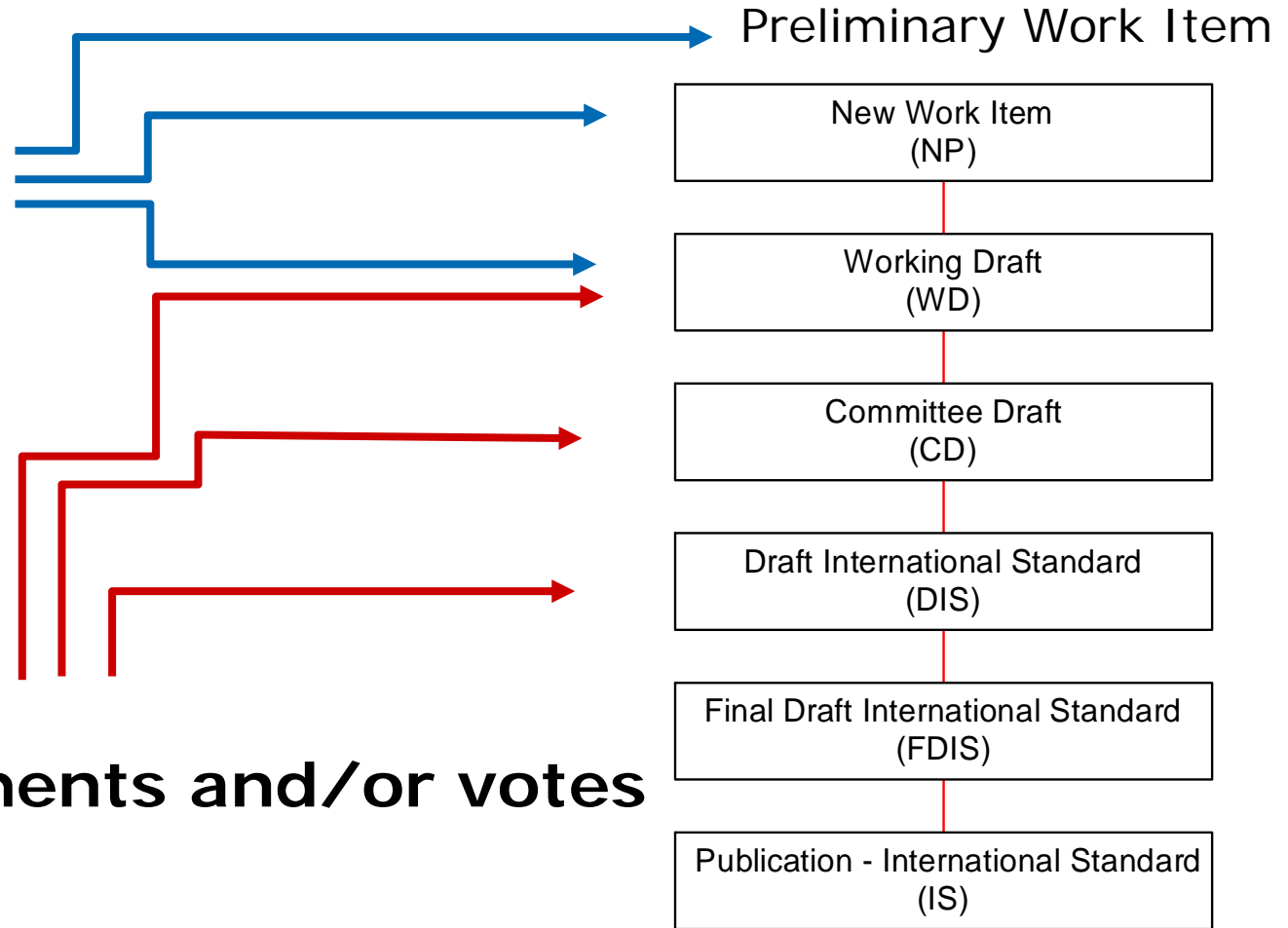




Points of Influence



ideas





Current Comment Process



- Working Draft 2 is the result of:
 - Comments on Working Draft 1
 - Review of the issues by the Convener and Secretary



January TAG Meeting

Objectives of the US TAG Meeting

- To review the Working Draft 2 comments submitted by the US TAG members
- To determine if the Working Draft should move to a Committee Draft document
- To develop the US position for the upcoming International Meeting and select the US TAG representatives for the International Meeting in March 2009
- To discuss US TAG administrative issues for the upcoming year such as, review of the 2009 calendar, procedure changes, etc.



2009 Schedule

Timeframe	Anticipated Schedule
January 12, 2009	Comments due on second working draft (WD 2)
March 9-12, 2009	Second Project Committee 242 meeting (decision to move to Committee Draft stage)
April 15, 2009	Committee Draft (CD) to Participating Countries for review
May 2009	U.S. Technical Advisory Group Meeting
July 2009	Committee Draft (CD) decision and comments
August 2009	U.S. Technical Advisory Group Meeting
August 15, 2009	Result of Committee Draft ballot sent to Participating Countries
October 2009	Third Project Committee 242 meeting (decision to move to Draft International Standard (DIS) stage)



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