



Energy Management System Standard ISO 50001

**IEA/IEC/ISO Workshop
International Standards to Promote Energy
Efficiency and Reduce Carbon Emissions**

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PC 242 Chairman**





Energy Use Must be Managed- What are We to Do?

Users alone cannot control prices, politics, or the global economy, but
-But they can manage how energy is used



The Need

- A management process to proactively assess, manage, and measure energy usage



The Response



- 2005 Stakeholder discussions in the US, and Internationally, ANSI MSE 2000:2005 issued.
- 2006 International stakeholders engaged in discussions
- 2007 Stakeholders meeting (UNDIO) determine international standard needed
- Countries initiate national standards





ISO Task Force Recommendation

National energy management standards have been developed and are in use in various countries, resulting already in significant savings in energy consumption and reductions in GHG emissions. Regional and national standards development is underway in Europe, China, USA and other countries. The increasing interest in this field, and the explicit requests received by ISO, have led the TMB to already address the matter and the Task Force recommends that ISO moves forward expeditiously.



THE NEW WORK ITEM PURPOSE AND JUSTIFICATION

The energy management Specification will provide a practical approach to improving energy efficiencies, reducing costs and improvements in the environmental footprint of the implementing organizations by combining both the technical aspects of energy management and the strategic management aspects.



SURVEY OF EXISTING RELEVANT WORK

- **Denmark - DS 2403:2001 and DS/INF 136:2001**
- **Ireland - IS 393:2005 and IS 393:2005**
- **Sweden - SS 627750:2003**
- **United States - ANSI/MSE 2000:2005 and ANSI/IEEE 739:1995**
- **China - China Management System for Energy**
- **CEN – prEN 16001**
- **Australia - AS3595-1990 and AS 3596-1992**
- **Canada - PLUS 1140:1995**
- **China - GB/T 15587:1995**
- **Germany - VDI 4602**
- **Japan - JIS Z 9211 (1982-02-01) and JIS Z 9212 (1983-01-01)**
- **Korea - B 0071 (1985)**
- **Netherlands – June 2004 publication of SenterNovem**
- **United Kingdom - BIP 2011:2003, HB 10190:2001, HB 1091:2002, PASS 55-1:2003 and PASS 55-2:2003**
- **UNIDO issues paper on energy management and outcomes of 21-22 March 2007 Experts Group Meeting**



PC 242

- New Project Committee created to develop ISO 50001
- One Working Group
- Timeline is issue final standard in late 2010-early 2011
- 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



ISO/PC 242 MEMBER COUNTRIES

PARTICIPATING (35) and Observing (5) COUNTRIES

- [Argentina \(IRAM\)](#)
- [Australia \(SA\)](#)
- [Barbados \(BNSI\)](#)
- [Belgium \(NBN \)](#)
- [Brazil \(ABNT\)](#)
- [Canada \(SCC\)](#)
- [Czech Republic \(CNI \)](#)
- [Chile \(INN\)](#)
- [China \(SAC\)](#)
- [Colombia \(ICONTEC \)](#)
- [Denmark \(DS\)](#)
- [Ecuador \(INEN \)](#)
- [Finland \(SFS\)](#)
- [France \(AFNOR\)](#)
- [Germany \(DIN\)](#)
- [Ireland \(NSAI\)](#)
- [Israel \(SII \)](#)
- [Italy \(UNI \)](#)
- [Japan \(JISC\)](#)
- [Kazakhstan \(KAZMEMST \)](#)
- [Korea, Republic of \(KATS\)](#)
- [Malaysia \(DSM \)](#)
- [Mauritius \(MSB \)](#)
- [Netherlands \(NEN\)](#)
- [Nigeria \(SON \)](#)
- [Pakistan \(PSQCA\)](#)
- [Poland \(PKN\)](#)
- [Portugal \(IPQ\)](#)
- [Saint Lucia \(SLBS\)](#)
- [Singapore \(SPRING SG\)](#)
- [South Africa \(SABS\)](#)
- [Spain \(AENOR\)](#)
- [Sweden \(SIS\)](#)
- [Switzerland \(SNV \)](#)
- [Thailand \(TISI\)](#)
- [Tunisia \(INNORPI\)](#)
- [Turkey \(TSE\)](#)
- [United Kingdom \(BSI\)](#)
- [USA \(ANSI\)](#)
- [Zimbabwe \(SAZ\)](#)



Results of First Meeting

- Approved design specification
- Developed first Working Draft for comment
- 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
- 2nd Meeting scheduled for March 2009



Scope statement of ISO/WD 50001

- This standard specifies requirements for an energy management system, which enables an organization to take a systematic approach to the continual improvement of energy efficiency and energy performance. It does not itself state specific performance criteria with respect to energy.
- This standard applies to all organizations.



Results of Second Meeting

- Comments reviewed and WD2 was issued in December 2008
- Second meeting ended on March 13th
- Agreed on: importance of both management systems elements and energy performance improvements; the need for relevant data; the need for the ability to prioritize
- CD for Ballot anticipated in June 2009
- Third meeting planned for November 2009



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