



**International Organization
for Standardization**

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ISO initiatives in innovative fields

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ISO initiatives in innovative fields – background

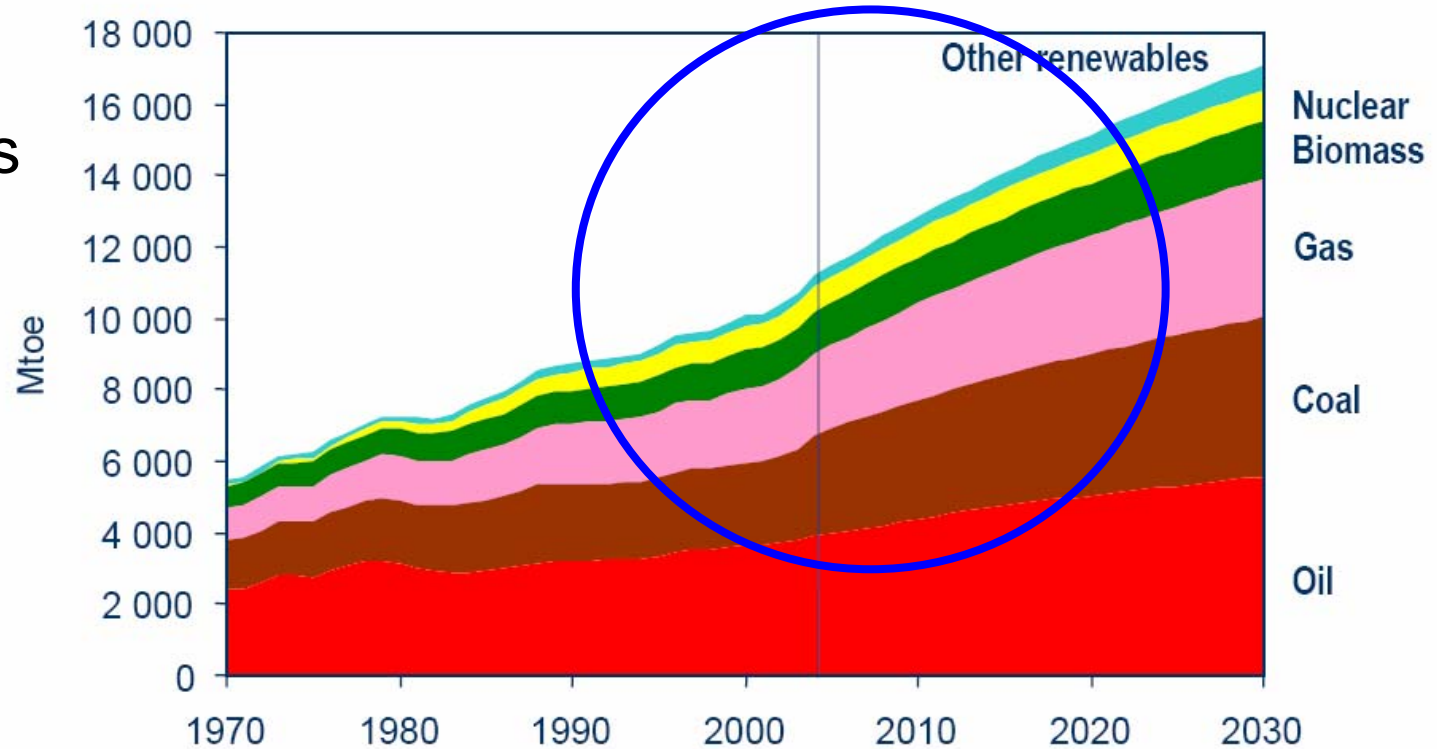
- ISO members recognize that **ISO needs to be more proactive** pursuant to the ISO 2005-2010 Strategic Plan (Objective 1)

Council approved in 2006 a process aiming at identifying and prioritizing innovative fields of work, **complementing the existing approaches** (in particular introducing some “top-down” elements)

- The area of **Energy efficiency and Renewable energy sources** has been selected for the pilot implementation (work started in Q4 2006)

Global Energy Demand Reference Scenario (IEA)

This slide tells that “business as usual” is not an option and **the time to act is NOW**



Global demand grows by more than half over the next quarter of a century, with coal use rising most in absolute terms

© OECD/IEA - 2006

The key role of energy efficiency

Energy efficiency has a key role to play and is available **in the short term**



High performance buildings



Least life-cycle cost appliances



Labelling and certification

Energy efficiency offers

- *substantial energy and greenhouse gas savings at low or negative cost*
- *energy security and reliability benefits*
- *enhanced business competitiveness and social welfare*



Compact Fluorescent Lamps



LED traffic lights



Efficient information and communication technologies



Reducing standby power consumption



Super windows & daylighting

ISO importance to the energy sector

- **International Standards** have given and continue to give an **important contribution to the Energy sector** by:
 - helping to enhance the safety of industry operations, assuring quality, allowing for variety control and interoperability, reducing waste and achieving significant cost savings
 - helping to improve production, products, processes and networks, and speed-up market acceptance
- ISO has published **670 standards** for the energy sector and, at June 2006, had **over 200 active work items**

The ISO pilot project

- Cooperation with key international organizations (**International Energy Agency, World Energy Council**)
- Cooperation with IEC
- Portfolio analysis
- Gap analysis
- Identification of key issues, recommended priorities and strategic orientations to be submitted to Council in September 2007
- Hand-over to the TMB for implementation

ISO cooperation with International Energy Agency (IEA)

- ISO and IEA agree that International Standards are a key tool for **disseminating new technologies and good practices, developing global markets and supporting the harmonization of government policies** on energy efficiency and renewable sources on a global scale
- The two organizations are willing to cooperate with a view to:
 - refining the portfolio analysis of International Standards relevant to these fields
 - Raising awareness at the political level (cf G8, EU-US dialogue...)
 - identifying priorities that can be shared by public authorities, the private sector and societal stakeholders
 - performing a gap analysis and providing recommendations to standards experts on high-priority areas that can be covered by International Standards

ISO cooperation with World Energy Council (WEC)

- Participation of ISO in the **World Energy Congress**, Rome, 11-15 November 2007

Currently being discussed:

- the organization of a session dedicated to International Standards for energy efficiency and renewable sources
- participation of the ISO Secretary General in important events in the framework of the Congress
- other initiatives aiming at raising awareness on the role of IS for the energy sector
- proposed specific workshop in 2008

ISO cooperation with IEC

ISO has proposed to IEC

- Join the portofolio analysis in collaboration with the IEA

Join ISO in the session on International Standards at the WEC 2007

- Consider further joint initiatives and strategic planning

Further ISO initiatives in innovative fields

- SAG on Management System Standards (ongoing)
- SAG on security (ongoing)
- Nanotechnologies (ongoing : TC 229)
- Biotechnologies
- Intelligent and sustainable buildings
- Services (ongoing and new PCs)
- Systematic review of national developments in innovative fields for standardization

Thank for your attention!



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