

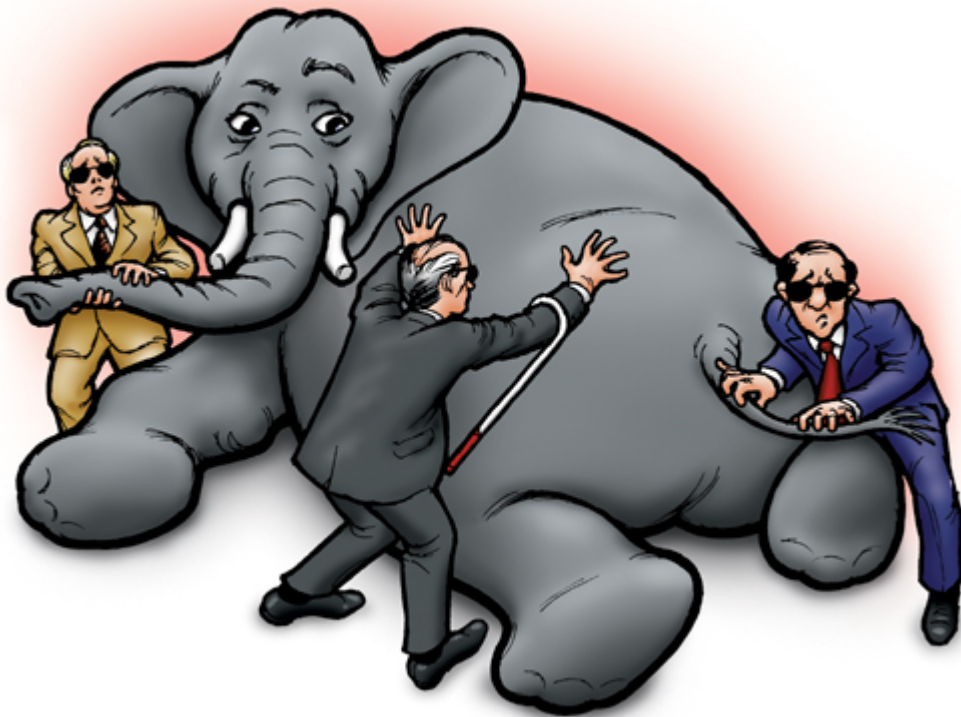


# Energy Efficiency and Renewable Energy Sources: How International Standards Can Help

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# Outline

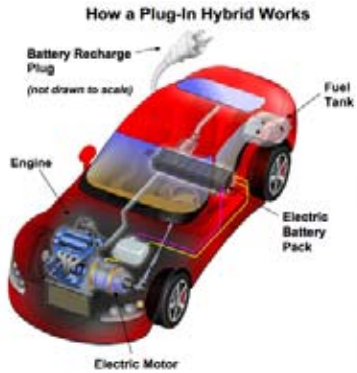


- A Look at the Big Picture: the Global Energy Problem
- How International Standards Can Help
- What is ISO doing

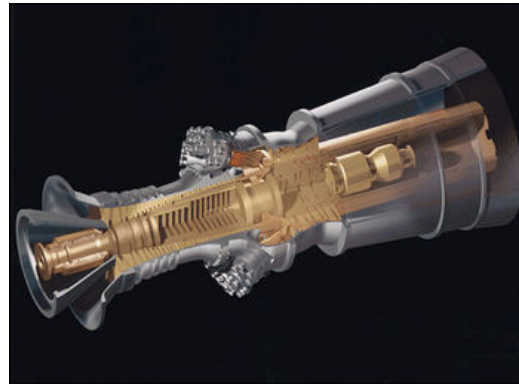
# What are the Solutions?

## Energy Efficiency

### End-Use



### Power Generation

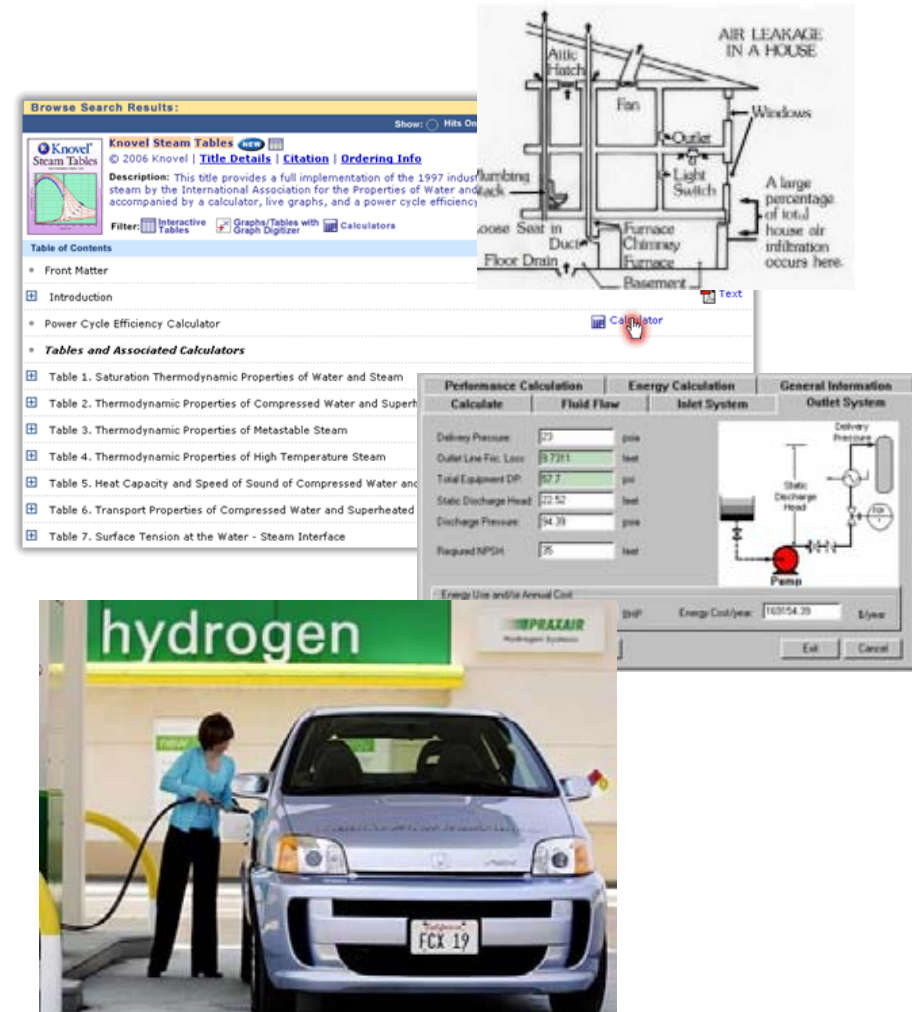


## Renewable Sources



# What International Standards offer

- Performance definitions, measurement and test methods
- Codification of best practices and management systems
- Design checklists and guides
- Interoperability
- State-of-the-art knowledge formalized by recognized experts through double level of consensus, amongst stakeholders and across countries



# The value added by International Standards

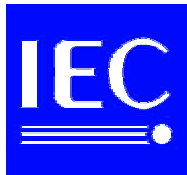
- Avoiding unnecessary technical barriers to trade related to energy policies
- Enabling the creation of world markets for energy efficient technologies
- Promoting good energy management practices
- Helping to improve consumers and users understanding and confidence
- Supporting scientific cooperation and possible harmonization of public policies

# The World Standards Cooperation (WSC)

**The leading international standardization organizations**



Multi-discipline and cross-sector



For electrotechnology



For telecommunications

**Collaborate to meet the challenges of converging technologies**

# The ISO system

At September 2007

157 national members

Collection of 16 455  
ISO Standards

1388 standards  
produced in 2006

- IT tools
- Standards development procedures
- Consensus building
- Dissemination

193 active TCs  
3 041 technical  
bodies  
50 000 experts

Central  
Secretariat  
in Geneva  
150 staff

# ISO standardization supporting Energy Efficiency

- 18 ISO Technical Committees involved
- More than **100 ISO standards** published and **36** active **work items**, e.g.:
- Sustainability and Energy Efficiency of Buildings
- Intelligent Transport Systems
- Environmental management and GHG accounting and verification
- Weighting and aggregation of energywares

# ISO standardization supporting Renewable Energy sources

- 3 ISO Technical Committees are specifically involved: **Nuclear Energy, Solar Energy, Hydrogen Technologies**
- 1 Joint Working Group with IEC on **Wind Turbines**
- 3 other Technical Committees also cover the **Oil and Gas industries** (upstream and downstream)
- Other Technical Committees cover **many user sectors**: automobile and other vehicles, aeronautics, industrial equipment and processes, construction,...

# Further development and promotion of ISO standardization to respond to the energy challenge

- Establishment of an ISO **Strategic Advisory Group** on Energy Efficiency and Renewable Energy sources
- **Portfolio and Gap analysis** – to identify key issues and priorities
- Technical Committees created for **biofuels** and **energy management**
- Cooperation with the **IEC** and with other key international organizations, such as:
  - **OECD and International Energy Agency**
  - **World Energy Council**
  - **World Business Council on Sustainable Development**
  - **UN System (e.g. FAO, WMO, UN Global Compact, UNECE...)**

# ISO

## International Standards for a sustainable world



**Thank for your attention!**

**<http://www.iso.org>**