Scope of the CEN/CENELEC Sector Forum "Energy Management" (SFEM)

by

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Since 2006, major development of European Energy standards motivated by an ambitious European policy: Reducing energy consumption and increasing energy efficiency are among the main goals of the European Union. In March 2007, the European Council endorsed three ambitious targets for 2020: cutting greenhouse gases by 20%, reaching 20% of energy from renewable sources, and increasing energy efficiency by 20%.

Important European standardization program in relation with:

- **Directive 2006/32/EC on energy efficiency and services**

Several standards developments consistent with:

- **Directive 2002/91/EC on energy performance of buildings**
- **Directive 2005/32/EC on energy using products (EuP)**
- **Directive 2009/28/EC on Renewable Energy Sources**

ISO and IEC standardization program on energy efficiency and Renewables launched in 2008
**Achieving the 450 ppm scenario**

- OECD and non-OECD countries must both work towards reducing CO₂ emissions
- Energy efficiency plays a key role for both OECD and non-OECD countries
- To inform the international climate negotiations, the IEA will release an early excerpt of the WEO 2009 climate change analysis, to coincide with post-Kyoto negotiations this September
Standards and Energy Management: a major challenge in the energy efficiency market
What’s a standard?

- A reference document:
  - Elaboration: consensuses
  - Application: voluntary
  - Added value: solutions to repetitive technical, commercial, and societal questions
  - Domains/sectors: all
How is standardization organized?

Ex. AFNOR is the French member of the international standards organisations (84% of the French standards come from European and/or international ones).
How the story started …

  - Identified 21 standardization priorities on energy management
  - Recommended to create a new horizontal strategic body on energy management
    - Promotion of energy management and efficiency, Information exchange, standardisation needs, TCs coordination …

- **In 2006**: CEN and CENELEC Technical Boards
  - Created a joint CEN/CENELEC Sector Forum (SFEM), AFNOR secretariat
  - Created two joint CEN/CENELEC Task Forces on
    - TF 189 “Energy Management and related services”, secretariat UNI
    - TF 190 “Energy efficiency and savings calculations”, secretariat NEN
How SFEM works ...

- Sector Forum SFEM meets twice a year
- Around 40 experts at each meeting
  - 18 CEN and CENELEC members with new members starting to participate (Cyprus, Slovakia, Slovenia)
  - European organisations:
    - European Commission: DG TREN, DG ENTR, DG ENV,
    - Main professional organisms: IEA, CECED, CONCAWE, EHI, EURELECTRIC, MARCOGAZ, NORMAPME, PU Europe ...
  - Consumers and citizens: ANEC, ECOS
  - CEN and CLC TCs on energy, buildings, environment, transport, products/equipment (pumps, ...) ...

- Liaison/coordination with
  - ISO/SAG E and IEC/SG1 on energy efficiency and renewable energy
  - CEN/ SABE: CEN BT Strategic Advisory Body on Environment
  - CEN/CENELEC/ETSI Smart meters coordination group SMCG
How SFEM works …

Information from EC on progress on the implementation of main EU directives
- Energy using products (2005/32/EC)
- Energy efficiency and services (2006/32/EC)
- Renewable Energy Sources (2009/28/EC)

Working groups to analyse thoroughly priority subjects for standardisation
- Benchmarking methodology on energy uses (NEN)
- Calculation method for energy efficiency in transport services (AFNOR)
- Energy audits in industry, transport and buildings (BSI)
- Terminology (AFNOR)
- Guarantees of origin and energy certificates (SIS)

Information from TCs or TF (TF189 and 190) on the progress of their work
The results ...

Standards published or under way

- **EN 16001 on Energy Management Systems**, publication 1st of July 2009 (SIS-Sweden)

- **EN 15900 on Energy Efficiency Services**, CEN/CLC Enquiry until June 2009, publication Q4 2010 (TF189 PT EES, UNI-Italy)

- **Working drafts on Top down and Bottom up energy efficiency and savings calculations**, Q3 2009, (TF190, NEN-Netherlands)

- **CEN/ CLC Technical report on Terminology** on energy management and energy efficiency, publication Q4 2009 (SFEM WG, AFNOR-France)
The results …

New standardisation work

CEN/TC320/WG10 on Energy consumption and GHG emissions in relation to transport services: started December 2008, AFNOR-France

CEN/CLC/TF189/PT Benchmarking methodologies for energy uses: started March 2009, NEN-Netherlands

What is next ….?

CEN/CLC/WG on Energy Audits, BSI (started June 2009)

CEN/CLC/ WG on Guarantees of Origin, SIS.
CEN/CENELEC Sector Forum on Energy management is of good support to facilitate the outcome and then the acceptation by Members of new subjects related to EU legislation and to sector needs within CEN and CENELEC work programmes;

It allows a community of experts to meet and exchange, to be informed of stakes and available best practices and then to decide of the main European standardisation priorities dealing with energy management, energy efficiency and renewable energies.
- 20 international experts, co-chair Carole Le GALL (France, ADEME/CSTB) and YANG Zeshi (China, SAC)

Missions of SAG E:
- Identify priority topics for normalization
- Coordination with IEC

Collaboration with international structures IEA, WEC, ...

Joint IEA/ISO/IEC workshop on “International Standards to promote Energy Efficiency to reduce GHG Emissions” Paris, March 2009 (300 participants)
New ISO topics…

- **Energy Management Systems (Standard ISO 50001)**
  - PC launched September 2008
  - **Leadership:** USA/Brazil/UK, and support from China
  - First projet **ISO 50001** circulated June 2009
  - Publication by end 2010

- **International Terminology on Energy Efficiency and Renewables (joint committee ISO/IEC)**
  - New project launched Q4 2009
  - **Leadership:** France (ADEME/AFNOR)

- **Energy Efficiency and savings calculation methods**
  - New ISO proposition from **China** in preparation
Conclusion

- Main standardization activity at both European and international levels to define transversal tools needed to implement legislation and answer market
  - Terminology and Metrics
  - Management and organization
  - Practices and procédures
  - Qualifications

- EN 16001 – is the first European standard to be published on energy management

- Next steps for the CEN CENELEC Sector Forum:
  - Follow up of the implementation of the EN16001 standard by organisms
  - Organize the European inputs to the future international standard ISO 50001
  - Analyze the needs of European stakeholders for standards on energy management and energy efficiency

OCDE - 82 % of GHG emissions are related to energy use
Outside OECD - 59 %
Scénario + 2°C: EE potential to reduce GHG emissions 54%
Next meeting will take place in Brussels,

On December 10, 2009

Thank You For Your Attention