



ANSI – ESO Conference
Transatlantic Standardization
Partnerships on E-Mobility/Electric
Vehicles, Energy, and Security

October 12, 2011



CEN and CENELEC programme on Energy Management and Energy Efficiency

Presented by

Bernard GINDROZ, PhD

CEN/CENELEC Sector Rapporteur on Energy
Management

ANSI – ESO Conference: Transatlantic Standardization Partnerships
on E-Mobility/Electric Vehicles, Energy, and Security

October 12, 2011

Overview

□ Agenda

- Energy management and energy efficiency in CEN and CENELEC - 3
- Energy management and energy efficiency structures – 3/4
- Published European standards – 5/6
- Standards under development at European and international level – 7/11
- Standardization needs identified by the CEN/CENELEC Sector Forum on Energy Management - 12

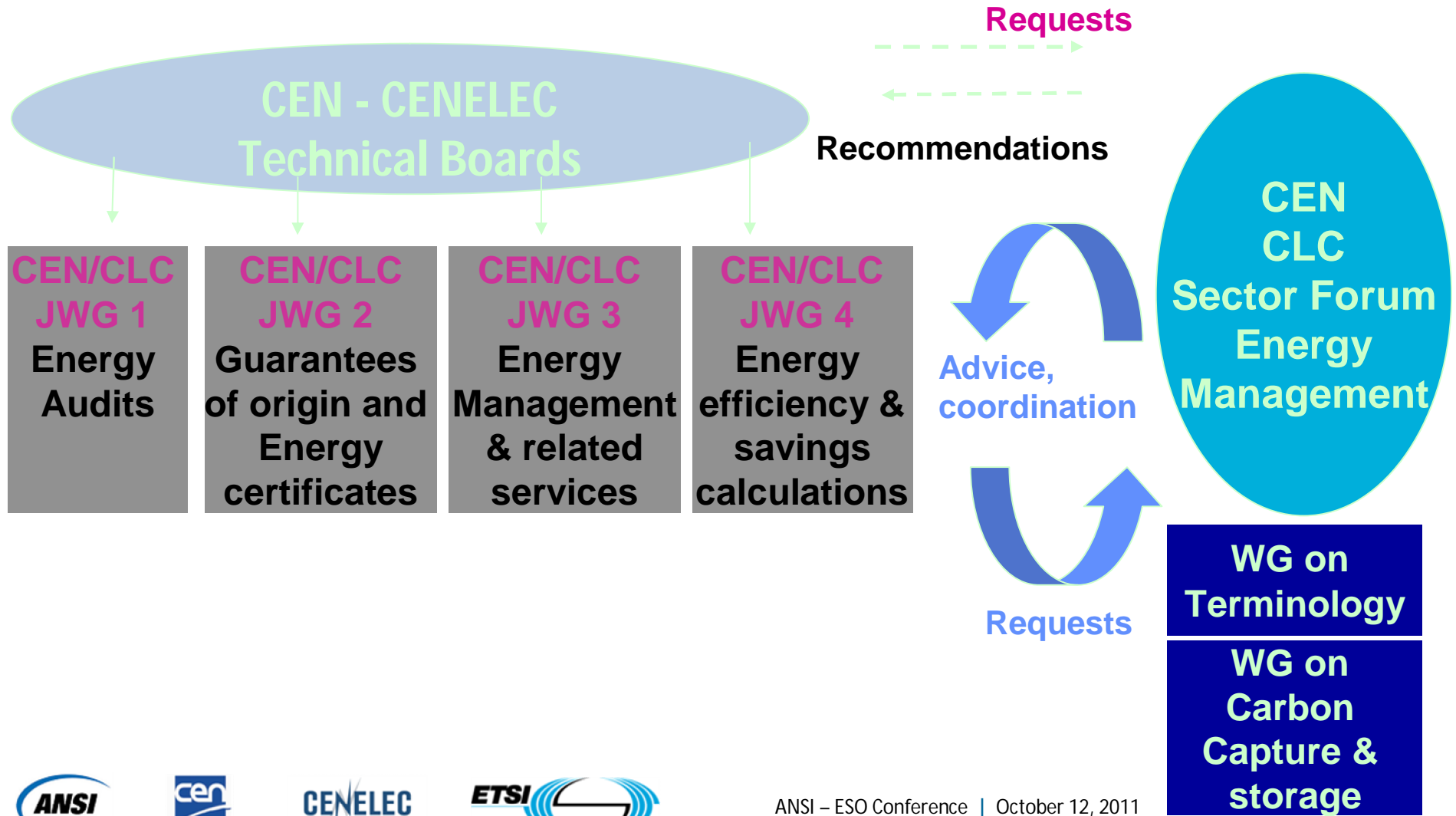
Energy management and energy efficiency in CEN and CENELEC – How the story started ...

- 2002 - Launching of the CEN/CENELEC BT JWG on Energy management
 - Chaired by ADEME (French energy and environmental agency), Secretary AFNOR
 - 3 years of work

- 2005 - CEN/CENELEC BT JWG on Energy management final report
 - Identification of 21 priority standardization items among which : energy management systems, energy efficiency and savings calculations, energy efficiency services, ...
 - Asks CEN and CENELEC BTs to create a permanent and transversal structure to analyse the standardization needs related to energy management

- 2006 - Creation of the CEN/CENELEC Sector forum on Energy management (SFEM) by CEN and CENELEC BTs
 - Network of experts (energy, services, industry, buildings, transport, ..)
 - 18 countries and relevant European organizations represented

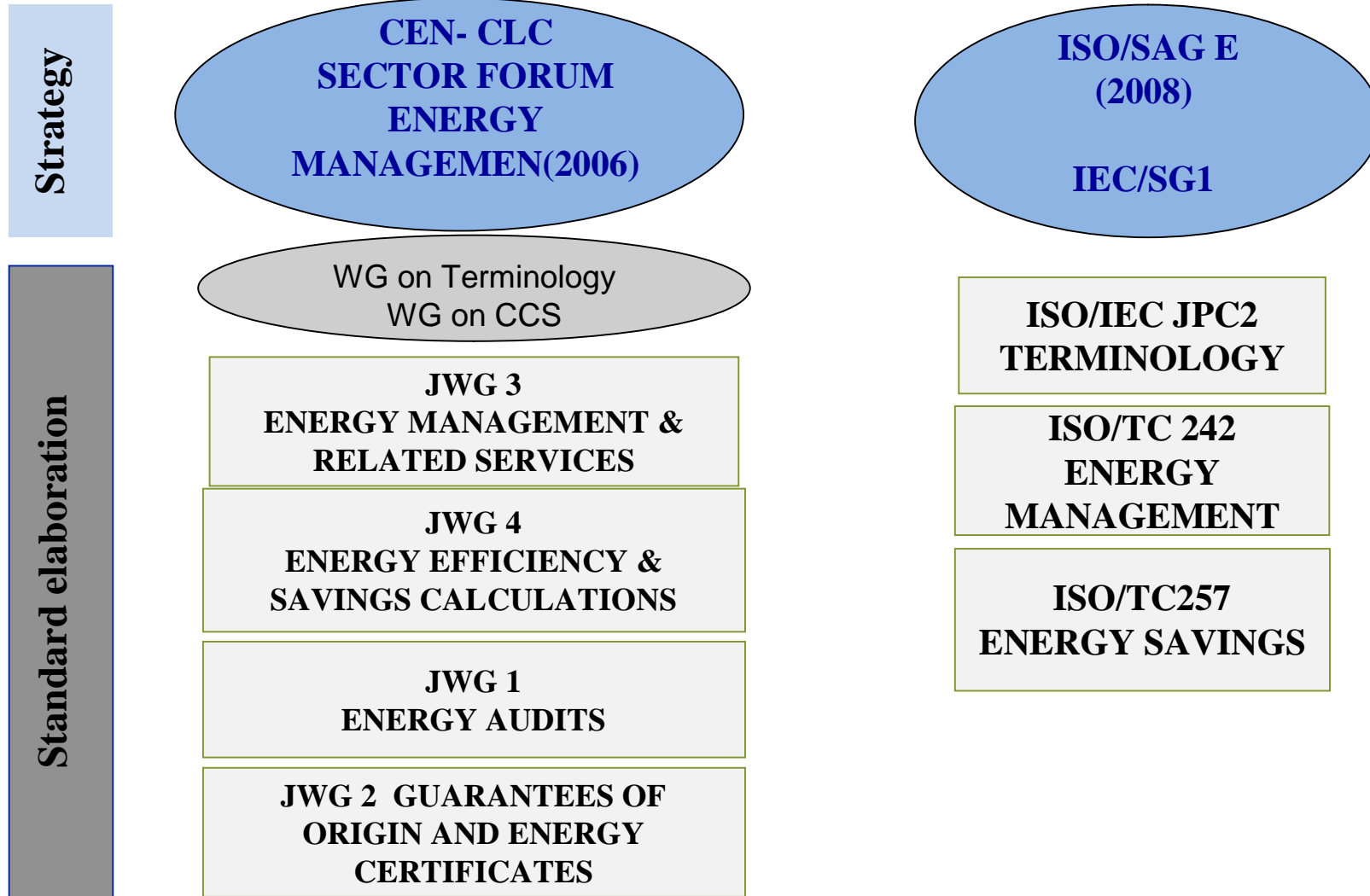
Energy Management and Energy Efficiency Structures – CEN and CENELEC



Energy Management and Energy Efficiency Structures – International and European

European- CEN & CENELEC

International – ISO & IEC



Published European Standards



Energy Management Systems
EN 16001:2009 (JWG 3)*

Energy Efficiency Services
EN 15900: 2010 (JWG 3)

Terminology
CEN/CLC TR 16103:2010



Energy Management Systems
ISO 50001:2011 (TC 242)



Terminology on energy efficiency and
renewable energy sources (JTC 2)

European Standards under development



Energy efficiency benchmarking methodology
prEN 16231 (JWG3)

Energy savings calculation (top-down & bottom-up)
prEN 16212: 2010 (JWG 4)

Energy audits- General requirements
prEN 16247-1 (JWG 1)

Energy audits- Buildings (JWG 1)

Energy audits- Processes (JWG 1)

Energy audits- Transportation (JWG 1)



Determination of energy savings in renovation projects, industrial enterprises and regions (TC 257)

3 NWIPs under ballot

Proposal to start work on Energy audits (PC 242) – under ballot



European Standards under development



**Guarantees of Origin related to energy -
Guarantees of Origin for Electricity
prEN 16325 (JWG2)**

White certificates (TR) (JWG 2)

Energy audits - European Standards

- ❑ CEN/CLC JWG 1 “Energy Audits” created in 2009
- ❑ Programme of work:
 - prEN 16247-1 ‘Energy audits - Part 1: **General requirements**’ under enquiry until 2011-07-24
 - work on specific parts for **buildings, processes and transport underway**
- ❑ JWG 1 to examine whether part 1 complies with all requirements of the M/479 following the end of the enquiry
- ❑ Publication of prEN 16247-1 expected beginning 2013

Energy Audits - Mandate M/479

- ❑ Received by CEN, CENELEC and ETSI from the Commission end December 2010
- ❑ Approved by the 3 ESOs in April-May 2011
- ❑ Mandate requests:
 - Standard in four parts: general/horizontal aspects and specific parts on transport, buildings & processes
 - Minimum requirements regarding quality of auditing process
 - Minimum requirements on qualification of energy auditors
 - Audits shall facilitate financial decisions

Energy Audits - Mandate M/479

□ Mandate requests:

- Describe harmonised methodology in order to be able to define common indicators to get comparable results & identify potential improvements
- Energy audits applicable to domestic, residential and commercial buildings
- Energy audit for buildings to cover individual equipment and complex systems
- Energy audits for industrial processes, systems and equipment
- Energy audit in transport to be applicable to all means of transport and transport systems including logistics

Standardization needs identified by CEN/CLC SFEM

□ Energy savings

- energy efficiency plan 2011 and proposal of a directive on energy efficiency : energy saving obligation schemes

□ Skills and qualifications needed by the market

- Directive 2009/28/CE on the promotion of use of renewable energy sources
- **energy efficiency plan 2011 and proposal of a directive on energy efficiency**

□

□ THANK YOU FOR YOUR ATTENTION !

