

#### ANSI – ESO Conference

Transatlantic Standardization Partnerships on E-Mobility/Electric Vehicles, Energy, and Security

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#### ISO 50001 Standard Energy Management Systems

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#### ISO 50001 Background

- Published in June 2011 by a committee of over 50 countries
- Culmination of almost 3 years of work through excellent consensus
- Used U.S. and EU standards as key strawman documents
- Passed in the first ballot with unanimous approval!
- Modeled after other ISO management system standards
- Applicable to all organizations that use energy









#### ISO 50001 Summary

- Establishes a framework for industrial and commercial facilities and organizations to manage energy
- Imposes requirements on energy supply and consumption:
  - Measurement
  - Documentation and reporting
  - Design and procurement practices for energy-using equipment and systems
  - Processes and personnel
- Applies to all factors that can be monitored and influenced by the organization to affect energy use
- Does not prescribe specific performance criteria with respect to energy









#### **Adoption of ISO 50001**

- Uptake of ISO 50001 will be driven by companies seeking an internationally recognized response to:
  - Corporate sustainability programs
  - Energy cost reduction initiatives
  - Demand created along the manufacturing supply chain
  - Future national cap and trade programs; carbon or energy taxes; increasing market value of "green manufacturing" / reduced carbon footprint
  - International climate agreements
- Expectation is for greater and faster uptake of energy management systems (EnMS) than occurred with other management system standards









## 50001 as Foundation for U.S. DOE Voluntary Program—Superior Energy Performance (SEP)

- SEP is a market-based, ANSI/ANAB-accredited certification program that provides industrial and commercial facilities with a roadmap for achieving continual improvement in energy efficiency while boosting competitiveness.
  - EnMS is a foundational requirement for SEP
  - U.S. DOE is using 50001 for the required EnMS
- Superior Energy Performance for industry will be launched nationwide in 2012.
- DOE is hoping to go global with a similar program, working in partnership with other nations.

http://www.superiorenergyperformance.net/









#### U.S. Council for Energy-Efficient Manufacturing

- Acts as champion of U.S. industry in pursuing national energy efficiency goals.
- Seeks to improve the energy intensity of U.S. manufacturing through a series of initiatives.
- Guides development of Superior Energy Performance for industry.







































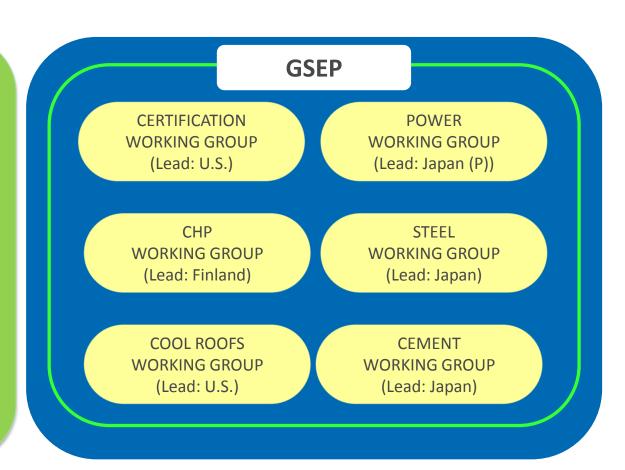




## **Global Superior Energy Performance Partnership (GSEP)**

GSEP objective is to reduce global energy use by:

- Encouraging industrial facilities and commercial buildings to pursue continuous improvements in energy efficiency
- Promoting publicprivate partnership



http://www.cleanenergyministerial.org/gsep/









#### Thank you!



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