



Biofuels and Alternative Energy Resources Overview of Standards Coordination Activities

U.S. Department of Energy

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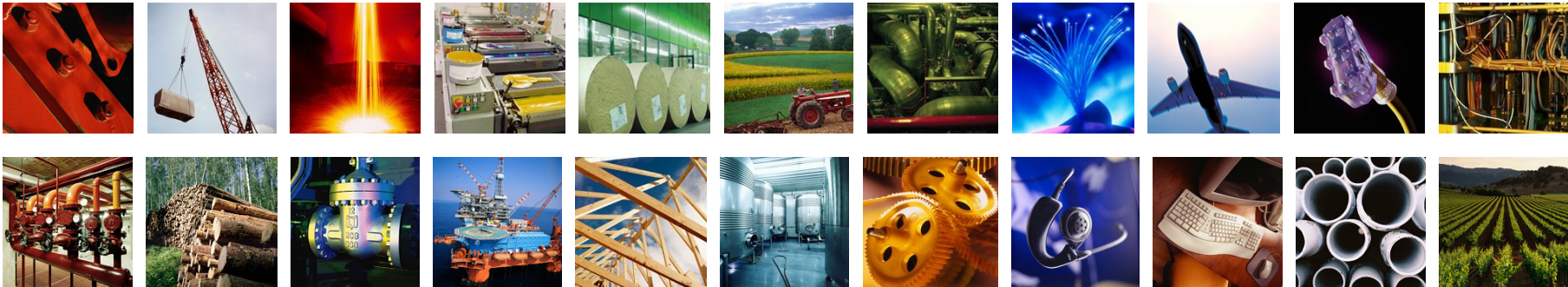
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What is ANSI?

The American National Standards Institute serves as the national coordinating institution for voluntary standards, conformity assessment and related activities in the United States of America.

The Institute is an independent not-for-profit (501(c)3) membership organization. ANSI does not receive government oversight or subsidization.

The ANSI Federation represents more than **125,000 companies and organizations** and **3.5 million professionals** worldwide.



ANSI's Coordination and Harmonization Activities

- ANSI **Standards Panels** are cross-sector coordinating bodies established to promote the development and compatibility of voluntary consensus standards and conformity assessment programs necessary to support national and global priorities
 - **Coordinate** the efforts of the private and public sectors
 - **Identify** existing standards and compliance programs
 - **Define** where gaps exist
 - **Recommend** where additional work is needed

ANSI's Current Standards Panels



2003

Homeland Security Standards Panel



2004

Nanotechnology Standards Panel



2005

Healthcare Information Technology Standards Panel



2006

ID Theft Prevention and ID Management Standards Panel



2007

Biofuels Standards Coordination Panel



Coordination of U.S. Biofuels Standardization Efforts

- ❑ January 2007 ANSI/DOE joint workshop began to identify issues:
 - lack of common nomenclature, technical definitions, and performance characteristics
 - unclear if existing codes and standards apply across the spectrum of biofuels or only to specific commodities
 - gaps and other barriers to be addressed

- ❑ Call for ANSI to form a Biofuels Standards Coordination Panel



ANSI Biofuels Standards Coordination Panel

Objective: The ANSI-BSP will work toward alignment and greater compatibility among standards while mitigating duplication and overlap.

- Many solutions are already in place:

ASTM International	American Petroleum Institute		
CSA America	Underwriters Laboratories		others
American Society of Agricultural & Biological Engineers	National Fire Protection Association		Society of Automotive Engineers

Related Coordination Activities

- U.S. Chamber of Commerce
Biofuels Initiative Steering Committee
 - neutral forum to address the main opportunities and challenges facing the industry at the policy, trade, and infrastructure levels
 - As a member of the Steering Committee, ANSI is the focal point for standards and conformance-related discussions

Biofuels Standards Roadmap

Objective: The U.S., Brazil, and E.U. will forge an accelerated process to achieve greater compatibility among existing biofuel standards by the end of the year (4Q07).

- ❑ Government-led Tripartite Task Force established in June 2007
 - Participation by private and public sector experts from the U.S., Brazil, and E.U.
 - Standards included in the review process were developed by ABNT, CEN, and ASTM International

Tripartite Task Force – White Paper

- Tripartite Task Force delivered white paper in January 2008.
 - Classified existing bioethanol and biodiesel specifications into three categories:

Category A	Category B	Category C
Specifications that are already quite closely aligned	Significant differences between parameters and methods, but which might be aligned by work on the products, standards, and methods	Fundamental differences, perhaps due to regional regulation, which are not deemed bridgeable in the foreseeable future

- White paper is now out for public review and consideration by ABNT, CEN, ASTM International, and the standards community.

Biofuels Standards Roadmap – Looking Ahead

- The next edition of the Biofuels Standards Roadmap will:
 - identify those specifications that could be addressed by December 2008
 - identify those specifications for which a longer period of time may be needed to carry out additional testing and development of performance data that may be required to justify differences or changes in specifications
 - specify the financial resources necessary to support the ongoing work of the Task Forces

- The Roadmap is expected to be finalized during 2Q08

Biofuels in ISO

- ❑ ANSI/ABNT joint proposal
 - Standardization of terminology, classification, and specifications for liquid biofuels
 - Analysis and testing for pure liquid biofuels
 - Two initial working groups, one on ethanol and one on biodiesel

- ❑ ASTM International serves as ANSI-Accredited U.S. TAG Administrator
- ❑ U.S. holds Secretariat
- ❑ Brazil has named a Chairman:
Mr. Sergio A.M. Fontes of Petrobras

It is not intended that the proposed ISO work would duplicate any existing global standards, but perhaps would normatively reference them in a new performance-based standard.

Beyond Biofuels: Other Alternative Energy Resources

- ANSI and DOE have collaborated on several other alternative energy resources and energy efficiency-related initiatives, including:
 - Hydrogen Codes and Standards Portal: hcsp.ansi.org
 - Superior Energy Performance partnership
 - Launch of www.energyquickstart.org

Standards for Energy Efficiency and Energy Management

- ❑ ANSI/MSE 2000:2005 – American National Standard
- ❑ ISO PC 242 – new ISO committee on Energy Management
 - Strong support from DOE; meeting between John Mizroch and Alan Bryden, ISO Secretary-General
 - U.S. and Brazil jointly hold Secretariat of PC 242
 - U.S. has nominated a Chairman
- ❑ DOE regulations stemming from Energy Policy Act of 2005:
 - ANSI/ASHRAE/IESNA 90.1-2004 for energy efficiency in federal buildings
 - NEMA Premium Energy Efficient Motors Program for federal facilities
 - NEMA Smart Grid “levels of intelligence” white paper

Going Forward

- How can ANSI help coordinate standards-based solutions to national priorities like biofuels and alternative energy resources?
 - How can ANSI help DOE address its mandates?
 - What are the priority areas from DOE's perspective?
 - What are the associated timelines?
 - What are the possibilities for next steps?
 - Another complete scan of the biofuels / alternative energy landscape?
 - A workshop approach on a specific topic or topics?
 - Other?

Conclusion

- ❑ ANSI is poised for action
- ❑ The Department of Energy and other public sector agencies are encouraged to engage actively with private sector stakeholders to continue to advance the biofuels/alternative energies agenda
- ❑ Thank you for giving us the opportunity to explain the U.S. standardization system and the Institute's roles and responsibilities

For more information



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