












Overview of DOE Support for Energy Efficiency Standards Activities

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The Office of Energy Efficiency and Renewable Energy (EERE) invests in clean energy technologies that strengthen the economy, protect the environment, and reduce dependence on foreign oil.

Energy Efficiency	Renewable Energy
 Homes	 Solar
 Buildings	 Wind
 Vehicles	 Water
 Manufacturing	 Biomass
 Government	 Geothermal
	 Hydrogen & Fuel Cells

- EERE is supportive of standardization in the emerging energy efficiency industry—to help reduce costs for business, level the playing field, facilitate trade, and increase the overall quality of goods and services.
- EERE believes that ANSI plays an invaluable role in fostering coordination and collaboration on standardization matters among public and private sector stakeholders.
- EERE looks forward to contributing to today's meeting and to staying engaged in this process going forward.

1) Product Standards

- a) Federal Energy Conservation Standards for Appliances
- b) Test procedures
- c) Product labeling (with FTC)

2) Building Codes

- a) Participate in the model national codes development process (specifically ASHRAE 90.1 and IECC)
- b) Developing standards for energy efficiency in manufactured housing

3) Support for EE-Related American National Standards (ANS)

- a) Technical support to domestic SDOs
- b) Referencing of ANS in our deployment programs
- c) Representation on ANSI Board and Accreditation committees

4) Support for International EE-Related Standards

- a) ISO 50001 and TC 242 work (energy management)
- b) TC 257 (determination of energy savings)

Basic Standards

- Weights and measures (handled by NIST)

Product Standards

- Standards for the physical, characteristics of products and materials. Performance criteria or design criteria

Design Standards

- Design or technical characteristics of a product in terms of how it is constructed

Process Standards

- Actions, operations and methodology used in making a product in a consistent and reproducible way.

Specifications

- Sets of requirements of precise and limited application that provide a description of a procedure, process, material, product, or service

Codes

- Collections of mandatory standards that have been codified by government authorities and become law

Management System Standards

- Requirements that can be applied to any organization, regardless of the product it makes or the service it performs

Personnel Credentialing Standards

- Quality guidelines for development and administration of training, certificate and certification programs

Energy Efficiency Standards Coordination Needs Identified by DOE

Issue: Overlap between several different Standards Development Organizations (SDOs) and the areas they address relevant to residential single-family and multi-family energy efficiency. Also, standards gaps that need to be filled in a coordinated way.

Types of standards: Design standards; Process standards; Codes

Examples: Overlapping and sometimes conflicting standards for energy auditing, evaluating building performance, and diagnostic test procedures.

Energy Efficiency Standards Coordination Needs Identified by DOE

Issue: Divergent “skills standards” for residential and commercial energy efficiency professionals. Also, need for increased adoption of standards and accreditations for the quality of the different credentialing programs (ANSI/ISO 17024, ANSI/ASTM 2659, etc.)

Types of standards: Personnel Credentialing Standards

Examples: Multiple different credentials for the same job based on different skill standards and with very different levels of quality for the credentialing program.

Energy Efficiency Standards Coordination Needs Identified by DOE

Issue: Future of the Department of Energy Guidelines for Home Energy Professionals

Types of standards: Process standards; Specifications

Examples: The DOE Guidelines for Home Energy Professionals project is producing a set of quality work specifications for energy upgrades of single family, multifamily, and manufactured housing and referencing industry-recognized codes and standards. These specifications have identified numerous areas where additional American National Standards would be helpful and beneficial.

Energy Efficiency Standards Coordination Needs Identified by DOE

Issue: Coordination between international ISO TC 242 and TC 257 and domestic energy measurement standardization efforts

Types of standards: Design standards; Process standards

Examples: Measurement & Verification standards; Energy Performance Indicator and Baseline standards; Energy Auditing Standards; etc.