



U.S. DEPARTMENT OF  
**ENERGY**

# Energy Conservation Standards Activities

Report to Congress  
February 2015

United States Department of Energy  
Washington, DC 20585

## Message from the Assistant Secretary

I am pleased to provide you with the semi-annual Implementation Report on Energy Conservation Standards Activities of the U.S. Department of Energy (DOE). This report meets the requirements of section 141 of the Energy Policy Act of 2005 (EPACT 2005) and sections 305 and 321 of the Energy Independence and Security Act of 2007 (EISA 2007). Because the reporting intervals and requirements are similar for the EPACT 2005 and EISA 2007 reports, DOE provides a consolidated report.

DOE is required by EPACT 2005 and EISA 2007 to provide semi-annual implementation reports pertaining to the DOE's deadlines for issuance of new or amended energy conservation standards. The implementation reports include a summary of DOE's progress relative to an initial report provided on January 31, 2006, which set an aggressive rulemaking schedule.

This report is being provided to the following Members of Congress:

- **The Honorable Joseph R. Biden Jr.**  
President of the Senate
- **The Honorable John Boehner**  
Speaker of the House of Representatives
- **The Honorable Lisa Murkowski**  
Chairman, U.S. Senate Committee on Energy and Natural Resources
- **The Honorable Maria Cantwell**  
Ranking Member, U.S. Senate Committee on Energy and Natural Resources
- **The Honorable Fred Upton**  
Chairman, U.S. House Committee on Energy and Commerce
- **The Honorable Frank Pallone, Jr.**  
Ranking Member, U.S. House Committee on Energy and Commerce

If you have further questions, please contact me at (202) 586-9220 or Mr. Brad Crowell, Assistant Secretary for Congressional and Intergovernmental Affairs, at (202) 586-5450.

Sincerely,



David T. Danielson  
Assistant Secretary  
Energy Efficiency and Renewable Energy

## Executive Summary

This semi-annual implementation report covers past, present, and future DOE rulemaking activities within the Appliance Standards Program. As of this report, action has been finalized for all 22 backlogged products subject to a consent decree and identified in the original multi-year schedule from the January 2006 report to Congress.

Since the last report, DOE completed a total of 40 rulemaking actions, including 7 final rules. The final rules amended energy conservation standards for commercial clothes washers, general service fluorescent lamps and incandescent reflector lamps, and automatic commercial ice makers; amended test procedures for commercial clothes washers, residential direct heating equipment and pool heaters, and fluorescent lamp ballasts; and altered DOE's alternative efficiency determination method (AEDM) regulations for commercial heating, ventilation, and air-conditioning (HVAC), water-heating, and refrigeration equipment.



# ENERGY CONSERVATION STANDARDS ACTIVITIES

## Table of Contents

I.	Legislative Language .....	1
II.	Implementation Update .....	2
	Published Energy Conservation Standards Rulemaking Documents Since the Last Implementation Report.....	2
	Published Test Procedure Rulemaking Documents Since the Last Implementation Report.....	4
	Current DOE Rulemakings With a Missed Statutory Deadline.....	5
	Current DOE Rulemakings With an Upcoming Statutory Deadline .....	6



## I. Legislative Language

This report responds to legislative language set forth in section 141 of the Energy Policy Act of 2005 (EPACT 2005), Pub. L. 109-58, and sections 305 and 321 of the Energy Independence and Security Act of 2007 (EISA 2007), Pub. L. 110-140, to provide semi-annual updates of the U.S. Department of Energy's (DOE) progress with respect to rulemaking actions regarding the implementation of energy conservation standards and test procedures.

Section 141 of EPACT 2005 requires both an initial report and semi-annual implementation reports, until such time as DOE has promulgated all of the overdue energy conservation standards. This document represents the seventeenth semi-annual implementation report.

Section 305 of EISA 2007 expands DOE's existing reporting requirements to include progress reports on all rulemaking activities required by EISA 2007. Section 321 of EISA 2007 requires that beginning in July 2013, DOE must submit semi-annual reports to Congress on the lighting rulemakings contained in EISA 2007. It specifically requires a report on whether DOE will meet the deadlines for lighting rulemakings, a description of any impediments to meeting the deadlines, and a specific plan to remedy any failures, including recommendations for additional legislation or resources.

Because the topics and reporting intervals in section 141 of EPACT 2005 and sections 305 and 321 of EISA 2007 are substantially similar, DOE began consolidating the reports starting with the first EISA 2007 implementation report in February 2008. This report constitutes the fourteenth semi-annual EISA 2007 implementation report.

## II. Implementation Update

In the following sections, DOE details the notices it has issued since the last implementation report, as well as any statutory deadlines DOE has missed and rulemakings DOE is currently developing to meet the requirements of EPCA 2005, EISA 2007, and the American Energy Manufacturing Technical Corrections Act (AEMTCA).

### Published Energy Conservation Standards Rulemaking Documents Since the Last Implementation Report

Since publication of the last implementation report, DOE has completed the following energy conservation standards rulemaking notices, as set forth below in reverse chronological order by type of notice and issuance date.

Product	Event	Issuance Date	Publish Date	Citation
Automatic Commercial Ice Makers	Final Rule	12/31/2014	1/28/2015	80 FR 4646
General Service Fluorescent Lamps and Incandescent Reflector Lamps	Final Rule	12/30/2014	1/26/2015	80 FR 4042
Commercial Clothes Washers	Final Rule	12/5/2014	12/15/2014	79 FR 74492
Hearth Products	Notice of Proposed Rulemaking (NOPR)	1/28/2015	Delivered to the <i>Federal Register</i>	
Commercial Warm Air Furnaces	NOPR	1/16/2015	2/4/2014	80 FR 6182
Fluorescent Lamp Ballasts	NOPR	12/29/2014	1/6/2015	80 FR 404
Commercial Heating, Air-Conditioning, and Water-Heating Equipment	NOPR	12/23/2014	1/8/2015	80 FR 1172
Single Package Vertical Air Conditioners and Single Package Vertical Heat Pumps	NOPR	12/10/2014	12/30/2014	79 FR 78614
Dishwashers	NOPR	12/10/2014	12/19/2014	79 FR 76142
Commercial Packaged Air Conditioners and Heat Pumps	NOPR	9/18/2014	9/30/2014	79 FR 58948
Packaged Terminal Air Conditioners and Heat Pumps	NOPR	8/28/2014	9/16/2014	79 FR 55538



General Service Lamps	Preliminary Analysis	12/5/2014	12/11/2014	79 FR 73503
Miscellaneous Refrigeration Products	Preliminary Analysis	11/25/2014	12/3/2014	79 FR 71705
Commercial Packaged Boilers	Preliminary Analysis	11/13/2014	11/20/2014	79 FR 69066
Ceiling Fan Light Kits	Preliminary Analysis	10/27/2014	10/31/2014	79 FR 64712
Ceiling Fans	Preliminary Analysis	9/16/2014	9/29/2014	79 FR 58290
Beverage Vending Machines	Preliminary Analysis	8/1/2014	8/8/2014	79 FR 46379
Commercial Pre-rinse Spray Valves	Framework Document	9/4/2014	9/11/2014	79 FR 54213
Grid-Connected Commercial and Residential Building End-Use Equipment and Appliances	Framework Document	8/6/2014	8/14/2014	79 FR 47633
Commercial and Industrial Fans and Blowers	Notice of Data Availability	12/3/2014	12/10/2014	79 FR 73246
Automatic Commercial Ice Makers	Notice of Data Availability	8/5/2014	9/11/2014	79 FR 54215
High-Intensity Discharge Lamps	Proposed Determination	10/10/2014	10/21/2014	79 FR 62910
Residential Central Air Conditioners and Heat Pumps	Request for Information (RFI)	10/30/2014	11/5/2014	79 FR 65603
Procedures, Interpretations, and Policies for Consideration of New or Revised Energy Conservation Standards for Consumer Products	RFI	10/24/2014	10/31/2014	79 FR 64705
Commercial Water Heating Equipment	RFI	10/10/2014	10/21/2014	79 FR 62899
Residential Solar Water Heaters	RFI	10/10/2014	10/21/2014	79 FR 62891
Gas Compressors	RFI	7/28/2014	8/5/2014	79 FR 45377

## Published Test Procedure Rulemaking Documents Since the Last Implementation Report

Since publication of the last implementation report, DOE has completed the following test procedure rulemaking notices, as set forth below in reverse chronological order by type of notice and issuance date.

Product	Event	Issuance Date	Publish Date	Citation
Fluorescent Lamp Ballasts	Final Rule	1/28/2015	2/4/2015	80 FR 5896
Direct Heating Equipment and Pool Heaters	Final Rule	12/23/2014	1/6/2015	80 FR 792
Alternative Efficiency Determination Methods	Final Rule	12/22/2014	1/5/2015	80 FR 144
Commercial Clothes Washers	Final Rule	11/24/2014	12/3/2014	79 FR 71624
Commercial Heating, Air-Conditioning, and Water-Heating Equipment	NOPR	12/23/2014	1/8/2015	80 FR 1172
Fluorescent Lamp Ballasts	NOPR	12/29/2014	1/6/2015	80 FR 404
Miscellaneous Refrigeration Products	NOPR	11/26/2014	12/16/2014	79 FR 74894
Ceiling Fan Light Kits	NOPR	10/27/2014	10/31/2014	79 FR 64688
Fluorescent Lamp Ballasts	NOPR	10/14/2014	10/21/2014	79 FR 62894
External Power Supplies	NOPR	10/2/2014	10/9/2014	79 FR 60996
Ceiling Fans	NOPR	9/19/2014	10/17/2014	79 FR 62522
Beverage Vending Machines	NOPR	8/1/2014	8/11/2014	79 FR 46908
Dehumidifiers	Supplemental Notice of Proposed Rulemaking (SNOPR)	1/27/2015	2/4/2015	80 FR 5994
Conventional Cooking Products	SNOPR	11/24/2014	12/3/2014	79 FR 71894
Alternative Efficiency Determination Methods	SNOPR	9/18/2014	9/26/2014	79 FR 57842

### Current DOE Rulemakings With a Missed Statutory Deadline

The following table lists currently ongoing rulemakings with outstanding statutory deadlines, which includes 11 statutory deadlines missed since the last implementation report, as set forth below in chronological order by date of statutory deadline. DOE is working to complete these rulemakings as expeditiously as possible.

Product	Type	Driver	Statutory Deadline*	Current Rulemaking Stage
Elliptical Reflector (ER), Bulge Reflector (BR), and Small-Diameter Incandescent Reflector Lamps	Energy Conservation Standard	EPACT 1992	6/30/2009	On Hold**
Battery Chargers	Energy Conservation Standard	EISA 2007	7/1/2011	Final Rule
High-Intensity Discharge Lamps	Test Procedure	EPACT 1992	1/1/2013	Final Rule
Enforcement of Regional Standards for Furnaces and Central Air Conditioners	Certification, Compliance, And Enforcement	EISA 2007	1/24/2013	NOPR
Commercial Unitary Air Conditioners	Energy Conservation Standard	AEMTCA	12/31/2013 (NOPR)	Final Rule
Residential Boilers	Energy Conservation Standard	6-Year Review	7/15/2014 (NOPR)	NOPR
Ceiling Fan Light Kits	Test Procedure	7-Year Review	12/19/2014	Final Rule
Ceiling Fans	Test Procedure	7-Year Review	12/19/2014	Final Rule
Residential Central Air Conditioners	Test Procedure	7-Year Review	12/19/2014	SNOPR
Compact Fluorescent Lamps	Test Procedure	7-Year Review	12/19/2014	NOPR
Illuminated Exit Signs	Test Procedure	7-Year Review	12/19/2014	NOPR
Water Heaters Conversion (Crosswalk)	Test Procedure	AEMTCA	12/19/2014	NOPR
LED Lamps	Test Procedure	7-Year Review	12/19/2014	SNOPR
Microwave Ovens (Active Mode)	Test Procedure	7-Year Review	12/19/2014	Final Rule
Packaged Terminal Air Conditioners and Heat Pumps	Test Procedure	7-Year Review	12/19/2014	Final Rule
Traffic Signal Modules and Pedestrian Modules	Test Procedure	7-Year Review	12/19/2014	NOPR

Candelabra-Base Incandescent Lamps and Intermediate-Base Incandescent Lamps	Test Procedure	7-Year Review	12/19/2014	On Hold**
---	----------------	---------------	------------	-----------

\* Unless otherwise noted, the statutory deadline is for the publication of either: (1) a final rule or (2) final determination that standards do not need to be amended.

\*\* Pursuant to section 315 of Public Law 112-74 (and subsequently reenacted in section 313 of Public Law 113-235), DOE has ceased work on this rulemaking activity.

## Current DOE Rulemakings With an Upcoming Statutory Deadline

The table below reflects the ongoing energy conservation standards and test procedure rulemakings that DOE is developing in order to comply with EPCA 2005, EISA 2007, and AEMTCA, as set forth below in chronological order by date of statutory deadline.

Product	Type	Driver	Statutory Deadline*	Current Rulemaking Stage
Dehumidifiers	Energy Conservation Standard	6-Year Review	3/11/2015 (NOPR)	NOPR
Ranges and Ovens	Energy Conservation Standard	6-Year Review	3/31/2015 (NOPR)	NOPR
Commercial Heating, Air-Conditioning, and Water-Heating Equipment	Energy Conservation Standard	ASHRAE 90.1 2013	4/9/2015	Final Rule
External Power Supplies	Energy Conservation Standard	EISA 2007	7/1/2015	Pre-Rule Stage
Commercial Packaged Boilers	Energy Conservation Standard	6-Year Review	7/8/2015 (NOPR)	NOPR
Commercial Water Heaters	Energy Conservation Standard	AEMTCA/6-Year Review	7/21/2015 (NOPR)	NOPR
Beverage Vending Machines	Energy Conservation Standard	6-Year Review	8/5/2015 (NOPR)	NOPR
Small Electric Motors	Energy Conservation Standard	6-Year Review	2/22/2016 (NOPR)	Pre-Rule Stage
Direct Heating Equipment and Pool Heaters	Energy Conservation Standard	6-Year Review	3/22/2016 (NOPR)	Pre-Rule Stage
Single Package Vertical Units	Energy Conservation Standard	ASHRAE 90.1 2013	4/8/2016	Final Rule

Residential Furnaces and Boilers (Active Mode)	Test Procedure	7-Year Review	7/15/2016	NOPR
Commercial Packaged Boilers	Test Procedure	7-Year Review	7/22/2016	NOPR
General Service Lamps	Energy Conservation Standard	EISA 2007	1/1/2017	NOPR
Residential Central Air Conditioners	Energy Conservation Standard	6-Year Review	6/6/2017 (NOPR)	NOPR
Beverage Vending Machines	Test Procedure	7-Year Review	8/31/2017	Final Rule
Dishwashers	Energy Conservation Standard	6-Year Review	5/11/2018 (NOPR)	Final Rule
External Power Supplies	Test Procedure	7-Year Review	6/1/2018	Final Rule
Commercial Water Heaters	Test Procedure	7-Year Review	5/16/2019	NOPR

\* Unless otherwise noted, the statutory deadline is for the publication of either: (1) a final rule or (2) final determination that standards do not need to be amended.