



U.S. DEPARTMENT OF  
**ENERGY**

# Energy Conservation Standards Activities

Report to Congress  
August 2016

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 DOE's deadlines for issuance of new or amended energy conservation standards. This implementation report includes a summary of DOE's progress relative to the last report, which was provided on February 8, 2016.

For more information on DOE's Appliance and Equipment Standards Program and the rulemakings detailed in this report, please visit the Program's website at: <http://energy.gov/eere/buildings/appliance-and-equipment-standards-program>.

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

- **The Honorable Joseph R. Biden, Jr.**  
President of the Senate
- **The Honorable Paul D. Ryan**  
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



## Executive Summary

This semi-annual implementation report covers past, present, and future DOE rulemaking activities within the Appliance and Equipment Standards Program.

Since the last report, DOE completed a total of 34 rulemaking actions, including 12 final rules. The final rules pertained to energy conservation standards for regional enforcement standards for central air conditioners; dehumidifiers; small, large, and very large commercial package air conditioning and heating equipment, and commercial warm air furnaces; external power supplies; battery chargers; and test procedures for ceiling fans; miscellaneous residential refrigeration products; light-emitting-diode (LED) lamps; residential central air conditioners; battery chargers; portable air conditioners; and fluorescent lamp ballasts.





# ENERGY CONSERVATION STANDARDS ACTIVITIES

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## 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's) 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 twentieth 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 seventeenth 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 and/or Issued 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
Regional Enforcement Standards for Central Air Conditioners	Final Rule	6/10/2016	7/14/2016	81 FR 45387
Dehumidifiers	Final Rule	5/20/2016	6/13/2016	81 FR 38338
Small, Large, and Very Large Commercial Package Air Conditioning and Heating Equipment, and Commercial Warm Air Furnaces	Final Rule (Confirmation of Effective Date and Compliance Dates)	5/13/2016	5/24/2016	81 FR 32628
External Power Supplies (EPS Service Parts Act)	Final Rule	5/6/2016	5/16/2016	81 FR 30157
Battery Chargers	Final Rule	5/6/2016	6/13/2016	81 FR 38266
Portable Air Conditioners	Final Determination	4/11/2016	4/18/2016	81 FR 22514
Miscellaneous Refrigeration Products	Supplemental Notice of Proposed Determination	2/26/2016	3/4/2016	81 FR 11454
Uninterruptible Power Supplies	Notice of Proposed Rulemaking (NPR)	7/25/2016	8/5/2016	81 FR 52196
Manufactured Housing	NOPR	5/20/2016	6/17/2016	81 FR 39756
Commercial Compressors	NOPR	4/29/2016	5/19/2016	81 FR 31680
Portable Air Conditioners	NOPR	4/27/2016	6/13/2016	81 FR 38398
Commercial Water Heaters	NOPR	4/19/2016	5/31/2016	81 FR 34440
Commercial Packaged Boilers	NOPR	3/11/2016	3/24/2016	81 FR 15836
General Service Lamps	NOPR	2/12/2016	3/17/2016	81 FR 14528
Direct Heating Equipment	Notice of Proposed Determination (NOPD)	3/25/2016	4/11/2016	81 FR 21276
Five Exempted Lamp Types (Calendar Year 2015)	Notice of Data Availability (NODA)	3/28/2016	4/7/2016	81 FR 20261



## Published and/or Issued 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
Ceiling Fans	Final Rule	7/6/2016	7/25/2016	81 FR 48620
Miscellaneous Residential Refrigeration Products	Final Rule & Final Determination	6/10/2016	7/18/2016	81 FR 46768
Light-Emitting-Diode Lamps	Final Rule	6/9/2016	7/1/2016	81 FR 43404
Residential Central Air Conditioners	Final Rule	5/19/2016	6/8/2016	81 FR 36992
Battery Chargers	Final Rule	5/6/2016	5/20/2016	81 FR 31827
Portable Air Conditioners	Final Rule	4/26/2016	6/1/2016	81 FR 35242
Fluorescent Lamp Ballasts	Final Rule	3/24/2016	4/29/2016	81 FR 25595
Central Air Conditioners M1	Supplemental Notice of Rulemaking (SNOPR)	8/1/2016	TBD	TBD
General Service Lamps	SNOPR	7/8/2016	7/20/2016	81 FR 47071
Walk-in Coolers and Freezers	NOPR	7/29/2016	TBD	TBD
Electric Motors and Small Motors (Certification, Compliance, Labeling, and Enforcement)	NOPR	6/10/2016	6/24/2016	81 FR 41378
High-Intensity Discharge (HID) Lamps	NOPR (Withdrawal)	5/13/2016	5/19/2016	81 FR 31561
Uninterruptible Power Supplies	NOPR	4/29/2016	5/19/2016	81 FR 31542
Commercial Compressors	NOPR	4/22/2016	5/5/2016	81 FR 27220
Commercial Water Heaters (excluding residential-duty commercial water heaters)	NOPR	4/15/2016	5/9/2016	81 FR 28588
General Service Lamps	NOPR	2/26/2016	3/17/2016	81 FR 14632
Commercial Packaged Boilers	NOPR	2/22/2016	3/17/2016	81 FR 14642
Television Sets	Request for Information (RFI)	6/16/2016	6/24/2016	81 FR 41262



## Current DOE Rulemakings with a Missed Statutory Deadline

The following table lists currently ongoing rulemakings with outstanding statutory deadlines, 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**
Manufactured Housing	Energy Conservation Standard	EISA 2007	12/19/2011	In Final Rulemaking
Unfired Hot Water Storage Tanks	Energy Conservation Standard	AEMTCA	12/31/2013 (NOPR)	In Development
Compact Fluorescent Lamps	Test Procedure	7-Year Review	12/19/2014	In Final Rulemaking
Illuminated Exit Signs	Test Procedure	7-Year Review	12/19/2014	NOPR
Microwave Ovens (Active Mode)	Test Procedure	7-Year Review	12/19/2014	In Development
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**
Candelabra-Base Incandescent Lamp and Intermediate-Base Incandescent Lamp	Energy Conservation Standard	6-Year Review	3/11/2015 (NOPR)	On Hold**
Residential Cooktops	Energy Conservation Standard	6-Year Review	4/8/2015 (NOPR)	NOPR
External Power Supplies	Energy Conservation Standard	EISA 2007	7/1/2015	In Development
Water Heaters Conversion (Crosswalk)	Test Procedure	AEMTCA	7/13/2015	In Final Rulemaking
Small Electric Motors	Energy Conservation Standard	6-Year Review	2/22/2016 (NOPR)	In Development
Pool Heaters	Energy Conservation Standard	6-Year Review	4/16/2016	NOPR
Residential Furnaces	Energy Conservation Standard	Court Action	4/24/2016	NOPR
Small Electric Motors	Test Procedure	7-Year Review	7/7/2016	NOPR
Commercial Packaged Boilers	Test Procedure	7-Year Review	7/22/2016	In Final Rulemaking

\* 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 court orders, EISA 2007, and AEMTCA, as set forth below in chronological order by date of statutory deadline.

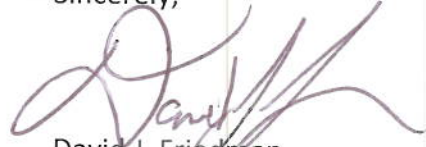
Product	Type	Driver	Statutory Deadline*	Current Rulemaking Stage
Dishwashers	Energy Conservation Standard	6-Year Review	12/10/2016	SNOPR
Vibration Service Lamps	Energy Conservation Standard	EISA 2007	12/31/2016	NOPR
General Service Lamps	Energy Conservation Standard	EISA 2007	1/1/2017	In Final Rulemaking
Residential Water Heaters	Energy Conservation Standard	6-Year Review	3/25/2017	In Final Rulemaking
Room Air Conditioners	Energy Conservation Standard	6-Year Review	4/8/2017 (NOPR)	Preliminary Analysis
Clothes Dryers	Energy Conservation Standard	6-Year Review	4/8/2017 (NOPR)	Preliminary Analysis
Residential Ovens	Energy Conservation Standard	6-Year Review	5/29/2017	SNOPR
Central Air Conditioners	Energy Conservation Standard	Court Order	6/27/2017 (NOPR)	Direct Final Rule
Residential Refrigerators and Freezers	Energy Conservation Standard	6-Year Review	9/15/2017 (NOPR)	Preliminary Analysis
Fluorescent Lamp Ballasts	Energy Conservation Standard	6-Year Review	10/20/2017 (NOPR)	Preliminary Analysis
Clothes Dryers	Test Procedure	7-Year Review	1/6/2018	NOPR
Room Air Conditioners	Test Procedure	7-Year Review	1/6/2018	NOPR
Commercial Packaged Boilers	Energy Conservation Standard	6-Year Review	3/11/2018	In Final Rulemaking
Direct Heating Equipment	Energy Conservation Standard	6-Year Review	3/25/2018	Final Determination
Walk-in Coolers and Freezers	Test Procedure	7-Year Review	4/15/2018	In Final Rulemaking
Fluorescent Lamp Ballasts	Test Procedure	7-Year Review	5/4/2018	NOPR
Commercial Water Heaters	Energy Conservation Standard	AEMTCA/6 Year Review	5/31/2018	In Final Rulemaking
Residential Clothes Washers	Energy Conservation Standard	6-Year Review	5/31/2018 (NOPR)	In Development
Residential Refrigerators and Freezers	Test Procedure	2010 Consensus Agreement/7 Year Review	1/25/2019	In Final Rulemaking
Commercial Water Heaters	Test Procedure	7-Year Review	5/16/2019	In Final Rulemaking

\* 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.



If you have further questions, please contact me at (202) 586-9898 or Mr. Brad Crowell, Assistant Secretary for Congressional and Intergovernmental Affairs, at (202) 586-5450.

Sincerely,

A handwritten signature in dark ink, appearing to read "David J. Friedman", with a stylized flourish extending from the end.

David J. Friedman  
Acting Assistant Secretary  
Energy Efficiency and Renewable Energy