



U.S. DEPARTMENT OF  
**ENERGY**

# Energy Conservation Standards Activities

Report to Congress  
August 2021

United States Department of Energy  
Washington, DC 20585

## Message from the Acting 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 section 305 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 regarding new or amended energy conservation standards. This implementation report includes a summary of DOE's progress relative to the last report provided in July 2019. Submission of this report was delayed, but the Department commits to striving to meet the Congressionally-mandated schedule moving forward.

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 Kamala Harris**  
President of the Senate
- **The Honorable Nancy Pelosi**  
Speaker of the House of Representatives
- **The Honorable Joe Manchin**  
Chairman, Senate Committee on Energy and Natural Resources
- **The Honorable John Barrasso**  
Ranking Member, Senate Committee on Energy and Natural Resources
- **The Honorable Frank Pallone, Jr.**  
Chairman, House Committee on Energy and Commerce
- **The Honorable Cathy McMorris Rodgers**  
Ranking Member, House Committee on Energy and Commerce

If you have further questions, please contact me at (202) 586-9220, or Mr. Ali Nouri, Assistant Secretary for Congressional and Intergovernmental Affairs, or Ms. Elizabeth Noll, Deputy Assistant Secretary for House Affairs, Office of Congressional and Intergovernmental Affairs, at (202) 586-5450.

Sincerely,

Kelly J. Speakes-Backman  
Principal Deputy Assistant Secretary and  
Acting 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 and Equipment Standards Program. 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 section 305 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.

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 EPACT 2005, EISA 2007, the American Energy Manufacturing Technical Corrections Act (AEMTCA), and any other subsequent amendments to the Energy Policy and Conservation Act (EPCA).

Since the last report in July 2019, DOE has completed the following actions related to energy conservation standards and test procedures:

- Seventy-one (71) energy conservation standards rulemaking notices, as set forth in the below section in reverse chronological order by type of notice and publication date.
  - These include fifteen (15) final actions (ceiling fans, commercial air compressors, commercial packaged boilers, dishwashers, evaporatively-cooled and water-cooled commercial package air conditioners, fluorescent lamp ballasts, general service incandescent lamps, general service lamps, portable air conditioners, procedures for evaluating statutory factors for use in new or revised energy conservation standards, process improvement rule, residential clothes washers and consumer clothes dryers, residential furnaces and commercial water heaters, small electric motors, and uninterruptible power supplies); one (1) supplemental notice of proposed rulemaking; one (1) notice of supplemental proposed interpretive rulemaking; seven (7) notices of proposed rulemaking; one (1) notice of proposed interpretive rulemaking; eight (8) notices of proposed determination; two (2) notice of preliminary analysis; four (4) notices of data availability; and thirty-two (32) requests for information.
- Fifty-two (52) test procedure rulemaking notices, as set forth in the below section in reverse chronological order by type of notice and publication date.
  - These include nine (9) final rules (ceiling fans, cooking products, dedicated-purpose pool pump motors, fluorescent lamp ballasts, room air conditioners, showerheads, small electric motors and electric motors, test procedure interim waiver process, and walk-in coolers and freezers); one (1) delay of effective date; one (1) notice of

supplemental proposed rulemaking; eighteen (18) notices of proposed rulemaking; and twenty-three (23) requests for information pertaining to test procedures.

DOE also includes a table listing ongoing rulemakings with outstanding judicial or statutory deadlines. DOE is working to complete these rulemakings as expeditiously as possible, along with a number of other ongoing rulemakings. DOE plans to publish thirty-one (31) actions related to energy conservation standards by the end of 2021, including four (4) final rules. Additionally, DOE plans to publish thirty-one (31) actions related to test procedures before the end of 2021, including six (6) final rules.



# 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 section 305 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 progress with respect to rulemaking actions regarding the implementation of energy conservation standards and test procedures.

Specifically, section 141 of EPACT 2005 provides: “(a) INITIAL REPORT.—The Secretary shall submit a report to Congress regarding each new or revised energy conservation or water use standard which the Secretary has failed to issue in conformance with the deadlines established in the Energy Policy and Conservation Act. Such report shall state the reasons why the Secretary has failed to comply with the deadline for issuances of the new or revised standard and set forth the Secretary's plan for expeditiously prescribing such new or revised standard. The Secretary's initial report shall be submitted not later than 6 months following enactment of this Act and subsequent reports shall be submitted whenever the Secretary determines that additional deadlines for issuance of new or revised standards have been missed. (b) IMPLEMENTATION REPORT.—Every 6 months following the submission of a report under subsection (a) until the adoption of a new or revised standard described in such report, the Secretary shall submit to the Congress an implementation report describing the Secretary's progress in implementing the Secretary's plan or the issuance of the new or revised standard.”

Section 305 of EISA 2007 provides in relevant part: “(v) REPORTS.—The Secretary shall promptly submit to the Committee on Energy and Commerce of the House of Representatives and the Committee on Energy and Natural Resources of the Senate a progress report every 180 days on compliance with this subparagraph, including a specific plan to remedy any failures to comply with deadlines for action established under this subparagraph.”

Because the topics and reporting intervals in section 141 of EPACT 2005 and section 305 of EISA 2007 are substantially similar, DOE began consolidating the reports, starting with the first EISA 2007 implementation report in February 2008. This document constitutes the twenty-fourth semi-annual EPACT 2005 implementation report and the twenty-first 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 EPCACT 2005, EISA 2007, the American Energy Manufacturing Technical Corrections Act (AEMTCA), and any other subsequent amendments to the Energy Policy and Conservation Act (EPCA).

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

Since the last report in July 2019, DOE has completed the following seventy-one (71) rulemaking actions related to energy conservation standards, as set forth below in reverse chronological order by type of notice and publication date. These include fifteen (15) final actions (ceiling fans, commercial air compressors, commercial packaged boilers, dishwashers, evaporatively-cooled and water-cooled commercial package air conditioners, fluorescent lamp ballasts, general service incandescent lamps, general service lamps, portable air conditioners, procedures for evaluating statutory factors for use in new or revised energy conservation standards, process improvement rule, residential clothes washers and consumer clothes dryers, residential furnaces and commercial water heaters, small electric motors, and uninterruptible power supplies), one (1) supplemental notice of proposed rulemaking, one (1) notice of supplemental proposed interpretive rulemaking, seven (7) notices of proposed rulemaking, one (1) notice of proposed interpretive rulemaking, eight (8) notices of proposed determination, two (2) notices of preliminary analysis, four (4) notices of data availability, and thirty-two (32) requests for information.



Product(s)	Event	Publish Date	Citation
Ceiling Fans	Final Rule	5/27/2021	86 FR 28469
Residential Clothes Washers and Consumer Clothes Dryers*	Final Rule	12/16/2020	85 FR 81359
Dishwashers	Final Rule	10/30/2020	85 FR 68723
Procedures for Evaluating Statutory Factors for Use in New or Revised Energy Conservation Standards	Final Rule	8/19/2020	85 FR 50937
Process Improvement Rule	Final Rule	2/14/2020	85 FR 8626
Commercial Air Compressors	Final Rule	1/10/2020	85 FR 1504
Commercial Packaged Boilers	Final Rule	1/10/2020	85 FR 1592
Portable Air Conditioners	Final Rule	1/10/2020	85 FR 1378
Uninterruptible Power Supplies	Final Rule	1/10/2020	85 FR 1447
Residential Furnaces and Commercial Water Heaters*	Final Rule (Interpretive Rule)	1/15/2021	86 FR 4776
Evaporatively-Cooled and Water-Cooled Commercial Package Air Conditioners*	Final Determination	7/14/2021	86 FR 37001
Small Electric Motors	Final Determination	1/19/2021	86 FR 4885
Fluorescent Lamp Ballasts	Final Determination	12/16/2020	85 FR 81558
General Service Incandescent Lamps	Final Determination	12/27/2019	84 FR 71626
General Service Lamps	Final Rule; Withdrawal	9/5/2019	84 FR 46661
Procedures for Evaluating Statutory Factors for Use in New or Revised Energy Conservation Standards	Supplemental Notice of Proposed Rulemaking (SNOPR)	2/14/2020	85 FR 8483
Residential Furnaces and Commercial Water Heaters*	Notice of Supplemental Proposed Interpretive Rule	9/24/2020	85 FR 60090
2021 Process Improvement Rule (Round 2)	Notice of Proposed Rulemaking (NOPR)	7/7/2021	86 FR 35668
2021 Process Improvement Rule (Round 1)	NOPR	4/12/2021	86 FR 18901
Residential Furnaces and Commercial Water Heaters*	NOPR; Withdrawal	1/15/2021	86 FR 3873
Error Correction Rule	NOPR	10/9/2020	85 FR 64071
Enforcement for Consumer Products and Commercial and Industrial Equipment	NOPR	8/31/2020	85 FR 53691
Residential Clothes Washers and Consumer Clothes Dryers*	NOPR	8/13/2020	85 FR 49297
Dishwashers	NOPR	7/16/2019	84 FR 33869
Residential Furnaces and Commercial Water Heaters*	Notice of Proposed Interpretive Rule	7/11/2019	84 FR 33011
Unfired Hot Water Storage Tanks	Notice of Proposed Determination (NOPD)	6/10/2021	86 FR 30796
Consumer Conventional Cooking Products	NOPD	12/14/2020	85 FR 80982
Direct Heating Equipment	NOPD	12/1/2020	85 FR 77017
Evaporatively-Cooled and Water-Cooled Commercial Package Air Conditioners*	NOPD	9/15/2020	85 FR 57149
Metal Halide Lamp Fixtures	NOPD	8/5/2020	85 FR 47472
Small Electric Motors	NOPD	4/30/2020	85 FR 24146
Fluorescent Lamp Ballast	NOPD	10/22/2019	84 FR 56540
General Service Incandescent Lamps	NOPD	9/5/2019	84 FR 46830

Product(s)	Event	Publish Date	Citation
Consumer Clothes Dryers	Notice of Preliminary Analyses	4/19/2021	86 FR 20327
Room Air Conditioners	Notice of Preliminary Analyses	6/17/2020	85 FR 36512
Computer Room Air Conditioners & 3-Phase Commercial Package Air Conditioners and Heat Pumps , Air-Cooled Less Than 65,000 Btu/h*	Notice of Data Availability (NODA)	9/25/2020	85 FR 60642
Five Exempt Lamp Types	NODA	7/17/2020	85 FR 43493
Computer Room Air Conditioners and Dedicated Outdoor Air Systems*	NODA	9/11/2019	84 FR 48006
Process Improvement Rule	NODA	7/26/2019	84 FR 36037
Commercial Refrigeration Equipment	Request for Information (RFI) (Early Assessment)	7/16/2021	86 FR 37708
Walk-in Coolers and Freezers	RFI (Early Assessment)	7/16/2021	86 FR 37687
Dehumidifiers	RFI (Early Assessment)	6/4/2021	86 FR 29964
Ceiling Fan Light Kits	RFI (Early Assessment)	6/4/2021	86 FR 29954
General Service Lamps	RFI	5/25/2021	86 FR 28001
Commercial and Industrial Fans	RFI	5/10/2021	86 FR 24752
Ceiling Fans	RFI (Early Assessment)	5/7/2021	86 FR 24538
Circulator Pumps	RFI	5/7/2021	86 FR 24516
Consumer Boilers	Request for Information (RFI) (Early Assessment)	3/25/2021	86 FR 15804
Rulemaking Prioritization Process (2021)	RFI; Request for Comment	2/19/2021	86 FR 10211
Packaged Terminal Air Conditioners and Packaged Terminal Heat Pumps	RFI (Early Assessment)	12/21/2020	85 FR 82952
Miscellaneous Residential Refrigeration	RFI (Early Assessment)	12/8/2020	85 FR 78964
Dishwashers	RFI (Early Assessment)	10/14/2020	85 FR 64981
Automatic Commercial Ice Makers	RFI (Early Assessment)	9/29/2020	85 FR 60923
Battery Chargers	RFI (Early Assessment)	9/16/2020	85 FR 57787
Commercial Clothes Washers	RFI (Early Assessment)	7/24/2020	85 FR 44795
Commercial Pre-rinse Spray Valves	RFI (Early Assessment)	6/10/2020	85 FR 35383
Refrigerated Beverage Vending Machines	RFI (Early Assessment)	6/10/2020	85 FR 35394
Consumer Water Heaters	RFI	5/21/2020	85 FR 30853
Electric Motors	RFI	5/21/2020	85 FR 30878
External Power Supplies (Class A and Non-Class A)*	RFI	5/20/2020	85 FR 30636
Water-Source Heat Pumps	RFI	5/12/2020	85 FR 27929
Air-Cooled Commercial Package Air-Conditioning and Heating Equipment and Commercial Warm Air Furnaces*	RFI	5/12/2020	85 FR 27941
General Service Fluorescent Lamps and Incandescent Reflector Lamps*	RFI	5/1/2020	85 FR 25326
Single Package Vertical Units	RFI	4/24/2020	85 FR 22958
Rulemaking Prioritization Process (2020)	RFI; Request for Comment	4/15/2020	85 FR 20886
Refrigerators, Refrigerator-Freezers, and Freezers	RFI	11/15/2019	84 FR 62470
Microwave Ovens	RFI	8/13/2019	84 FR 39980

Product(s)	Event	Publish Date	Citation
Unfired Hot Water Storage Tanks	RFI	8/9/2019	84 FR 39220
Residential Clothes Washers	RFI	8/2/2019	84 FR 37794
Evaporatively-Cooled and Water-Cooled Commercial Package Air Conditioners*	RFI	7/29/2019	84 FR 36480
Metal Halide Lamp Fixtures	RFI	7/1/2019	84 FR 31232

\* Publications included multiple covered products/equipment under EPCA.

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

Since the last report, DOE has completed the following fifty-two (52) test procedure rulemaking notices, as set forth below in reverse chronological order by type of notice and publication date. These include nine (9) final rules (ceiling fans, cooking products, dedicated-purpose pool pump motors, fluorescent lamp ballasts, room air conditioners, showerheads, small electric motors and electric motors, test procedure interim waiver process, and walk-in coolers and freezers); one (1) delay of effective date; one (1) notice of supplemental proposed rulemaking; eighteen (18) notices of proposed rulemaking; and twenty-three (23) requests for information pertaining to test procedures.

Product	Event	Publish Date	Citation
Dedicated-Purpose Pool Pump Motors	Final Rule	TBD	TBD
Ceiling Fans	Final Rule	5/27/2021	86 FR 28469
Room Air Conditioners	Final Rule	3/29/2021	86 FR 16446
Walk-In Coolers and Freezers	Final Rule	3/26/2021	86 FR 16027
Small Electric Motors and Electric Motors	Final Rule	1/4/2021	86 FR 4
Showerheads (Definition)	Final Rule	12/16/2020	85 FR 81341
Test Procedure Interim Waiver Process	Final Rule	12/11/2020	85 FR 79802
Fluorescent Lamp Ballasts	Final Rule	9/14/2020	85 FR 56475
Cooking Products	Final Rule	8/18/2020	85 FR 50757
Small Electric Motors and Electric Motors	Final Rule (Delay of Effective Date)	2/2/2021	86 FR 7798
Microwave Ovens	SNOPR	TBD	TBD
Certification for Ceiling Fan Light Kits, General Service Incandescent Lamps, Incandescent Reflector Lamps, Ceiling Fans, Consumer Furnaces and Boilers, Consumer Water Heaters, Dishwashers, Commercial Clothes Washers, Battery Chargers, and Dedicated-Purpose Pool Pumps*	NOPR	TBD	TBD
Showerheads (Definition)	NOPR	7/22/2021	86 FR 38594
Metal Halide Lamp Fixtures	NOPR	7/14/2021	86 FR 37069
Dehumidifying Direct Expansion-Dedicated Outdoor Air Systems	NOPR	7/7/2021	86 FR 36018
General Service Fluorescent Lamps, Incandescent Reflector Lamps, and General Service Incandescent Lamps*	NOPR	6/3/2021	86 FR 29888
Water Closets and Urinals*	NOPR	5/20/2021	86 FR 27281
Commercial Prerinse Spray Valves	NOPR	5/20/2021	86 FR 27298
Direct Heating Equipment	NOPR	4/16/2021	86 FR 20053
Dedicated-Purpose Pool Pump Motors (Labeling)	NOPR	10/5/2020	85 FR 62816
Walk-In Coolers and Freezers (Hot-Gas Defrost)	NOPR	9/28/2020	85 FR 60724
Showerheads (Definition)	NOPR	8/13/2020	85 FR 49284
Room Air Conditioners	NOPR	6/11/2020	85 FR 35700
Refrigerators, Refrigerator-Freezers, and Freezers & Miscellaneous Refrigeration*	NOPR	12/23/2019	84 FR 70842
External Power Supplies (Class A and Non-Class A)*	NOPR	12/6/2019	84 FR 67106
Microwave Ovens	NOPR	11/14/2019	84 FR 61836
Ceiling Fans	NOPR	9/30/2019	84 FR 51440
Cooking Products	NOPR	8/9/2019	84 FR 39211
Clothes Dryers	NOPR	7/23/2019	84 FR 35484
Consumer Furnace Fans	RFI (Early Assessment)	7/7/2021	86 FR 35660
Dehumidifiers	RFI (Early Assessment)	6/30/2021	86 FR 34640
Walk-in Coolers and Freezers	RFI (Early Assessment)	6/17/2021	86 FR 32332
Commercial Refrigerators, Refrigerator-Freezers, and Freezers	RFI (Early Assessment)	6/11/2021	86 FR 31182
Packaged Terminal Air Conditioners and Packaged Terminal Heat Pumps	RFI	5/25/2021	86 FR 28005

Product	Event	Publish Date	Citation
Refrigerated Bottled or Canned Beverage Vending Machines	RFI (Early Assessment)	5/19/2021	86 FR 27054
Circulator Pumps	RFI	5/7/2021	86 FR 24483
Ceiling Fan Light Kits	RFI (Early Assessment)	5/4/2021	86 FR 23635
Commercial and Industrial Pumps	RFI	4/16/2021	86 FR 20075
Portable Air Conditioners	RFI	4/16/2021	86 FR 20044
Packaged Terminal Air Conditioners and Packaged Terminal Heat Pumps	RFI (Early Assessment)	12/8/2020	85 FR 78967
Portable Air Conditioners	RFI (Early Assessment)	11/5/2020	85 FR 70508
Commercial and Industrial Pumps	RFI (Early Assessment)	9/28/2020	85 FR 60734
Commercial Pre-rinse Spray Valves	RFI	6/5/2020	85 FR 34541
Electric Motors	RFI	6/3/2020	85 FR 34111
Illuminated Exit Signs	RFI	6/1/2020	85 FR 33036
Residential and Commercial Clothes Washers*	RFI	5/22/2020	85 FR 31065
Consumer Boilers	RFI	5/15/2020	85 FR 29352
Commercial Warm Air Furnaces	RFI	5/5/2020	85 FR 26626
Battery Chargers	RFI	5/4/2020	85 FR 26369
Consumer & Residential-Duty Commercial Water Heaters	RFI	4/16/2020	85 FR 21104
Dishwashers	RFI	8/20/2019	84 FR 43071
Urinals and Water Closets*	RFI	8/5/2019	84 FR 37970

\* Publications included multiple covered products/equipment under EPCA.

### Current DOE Rulemakings with a Missed Statutory Deadline

The following table lists currently ongoing rulemakings with outstanding judicial or statutory deadlines. DOE is working to complete these rulemakings as expeditiously as possible, with plans to publish twenty-two (22) actions related to energy conservation standards, with outstanding judicial or statutory deadlines, before the end of 2021, including two (2) final actions. Additionally, DOE plans to publish seventeen (17) actions related to test procedures, with outstanding judicial or statutory deadlines, before the end of 2021, including three (3) final rules.

Product	Type	Driver	Current Rulemaking Stage	Next Action	Next Action Date
3 Phase CUAC & CUHP, Air-Cooled less than 65,000 Btu/h	Test Procedure	7 Year Review / ASHRAE Trigger	NOPR	NOPR	10/00/2021
3 Phase CUAC & CUHP, Air-Cooled less than 65,000 Btu/h	Energy Conservation Standard	ASHRAE Trigger/ 6-Year Review	NOPR	NOPR	12/00/2021
Automatic Commercial Ice Makers	Test Procedure	7 Year Review	NOPR	NOPR	9/00/2021
Residential Clothes Dryers	Test Procedure	7 Year Review	Final Rule	Final Action	8/00/2021

Product	Type	Driver	Current Rulemaking Stage	Next Action	Next Action Date
Clothes Dryers	Energy Conservation Standard	6 Year Review	NOPR / Determination	NOPR / Proposed Determination	6/00/2022
Commercial Clothes Washers	Energy Conservation Standard	6 Year Review	In Development	Preliminary Analysis/ Proposed Determination	12/00/2021
Commercial Refrigeration Equipment	Test Procedure	7 Year Review	NOPR	NOPR	5/00/2022
Commercial Refrigeration Equipment	Energy Conservation Standard	EPACT 2005	In Development	Preliminary Analysis / Proposed Determination	7/00/2022
CUAC & CUHP (Evaporatively-Cooled)	Test Procedure	7 Year Review / ASHRAE Trigger	NOPR	NOPR	11/00/2021
CUAC & CUHP (Water-Cooled)	Test Procedure	7 Year Review / ASHRAE Trigger	NOPR	NOPR	11/00/2021
Commercial Water Heaters - Unfired Hot Water Storage Tanks	Energy Conservation Standard	AEMTCA/ 6-Year Review	Final Determination	Final Action	5/00/2022
Commercial Water Heaters (Storage Water Heaters and Instantaneous Water Heaters)	Energy Conservation Standard	AEMTCA/ 6-Year Review	NOPR	NOPR	1/00/2022
Computer Room Air Conditioners	Test Procedure	7 Year Review / ASHRAE Trigger	NOPR	NOPR	12/00/2021
Computer Room Air Conditioners	Energy Conservation Standard	6 Year Review	NOPR	NOPR	122/00/2021
Consumer Cooking Products	Energy Conservation Standard	6 Year Review	Final Determination / SNOBR	Final Action/ SNOBR	1/00/2022
Consumer Water Heaters	Test Procedure	7 Year Review	NOPR	NOPR	8/00/2021
Consumer Water Heaters	Energy Conservation Standard	6 Year Review	In Development	Preliminary Analysis / Proposed Determination	8/00/2021
Dedicated Outdoor Air System	Test Procedure	ASHRAE Trigger	Final Rule	Final Action	4/00/2022
Dedicated Outdoor Air System	Energy Conservation Standard	ASHRAE Trigger	NOPR	NOPR	2/00/2022

Product	Type	Driver	Current Rulemaking Stage	Next Action	Next Action Date
Direct Heating Equipment	Energy Conservation Standard	6-Year Review	Final Determination	Final Action	12/00/2021
Dishwashers	Test Procedure	7 Year Review	NOPR	NOPR	8/00/2021
Dishwashers	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis / Proposed Determination	9/00/2021
Distribution Transformers	Test Procedure	7 Year Review	Final Rule	Final Action	9/00/2021
Distribution Transformers	Energy Conservation Standard	6 Year Review	In Development	Preliminary Analysis / Proposed Determination	8/00/2021
Electric Motors	Test Procedure	7 Year Review	NOPR	NOPR	8/00/2021
Electric Motors	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis / Proposed Determination	10/00/2021
External Power Supplies - Class A	Energy Conservation Standard	PASS Act 2017	In Development	Preliminary Analysis / Proposed Determination	11/00/2021
External Power Supplies - Non-Class A	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis / Proposed Determination	11/00/2021
Faucets	Test Procedure	7 Year Review	In Development	Early Assessment Review	8/00/2021
Furnace Fans	Test Procedure	7-Year Review	NOPR	NOPR	5/00/2022
Furnace Fans	Energy Conservation Standard	6-Year Review	In Development	Early Assessment Review	11/00/2021
Furnaces (Non-weatherized gas and Mobile home gas)	Energy Conservation Standard	Court Action	NOPR	NOPR	3/00/2022
Furnaces (weatherized gas; oil furnaces; electric furnaces)	Energy Conservation Standard	6-Year Review	In Development	Early Assessment Review	12/00/2021
General Service Fluorescent Lamps	Test Procedure	7-Year Review	Final Rule	Final Action	3/00/2022
General Service Fluorescent Lamps	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis/ Proposed Determination	9/00/2021

Product	Type	Driver	Current Rulemaking Stage	Next Action	Next Action Date
General Service Incandescent Lamps	Test Procedure	7-Year Review	Final Rule	Final Action	3/00/2022
General Service Lamps	Energy Conservation Standard	EISA 2007	SNOPR	SNOPR	1/00/2022
Illuminated Exit Signs	Test Procedure	7-Year Review	NOPR	NOPR	TBD
Incandescent Reflector Lamps	Test Procedure	7-Year Review	Final Rule	Final Action	3/00/2022
Incandescent Reflector Lamps	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis/ Proposed Determination	9/00/2021
Manufactured Housing	Energy Conservation Standard	EISA 2007	SNOPR	SNOPR	8/00/2021
Metal Halide Lamp Fixtures	Test Procedure	7-Year Review	Final Rule	Final Action	6/00/2022
Metal Halide Lamp Fixtures	Energy Conservation Standard	EISA 2007	Final Determination	Final Action	12/00/2021
Microwave Ovens	Test Procedure	7 Year Review	Final Action	Final Action	4/00/2022
Microwave Ovens	Energy Conservation Standard	6 Year Review	In Development	Preliminary Analysis / Proposed Determination	8/00/2021
Packaged Terminal Air Conditioners and Heat Pumps	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis / Proposed Determination	5/00/2022
Pool Heaters	Energy Conservation Standard	6-Year Review	NOPR	NOPR	10/00/2021
Refrigerators, Freezers and Refrigerator-Freezers	Test Procedure	7 Year Review	Final Rule	Final Action	8/00/2021
Refrigerators, Freezers and Refrigerator-Freezers	Energy Conservation Standard	6 Year Review	In Development	Preliminary Analysis / Proposed Determination	8/00/2021
Residential Clothes Washers	Test Procedure	7 Year Review	NOPR	NOPR	8/00/2021
Residential Clothes Washers	Energy Conservation Standard	6 Year Review	In Development	Preliminary Analysis / Proposed Determination	11/00/2021
Room Air Conditioners	Energy Conservation Standard	6 Year Review	NOPR	NOPR/Proposed Determination	12/00/2021



Product	Type	Driver	Current Rulemaking Stage	Next Action	Next Action Date
Showerheads	Test Procedure	7 Year Review	In Development	Early Assessment Review	8/00/2021
Single Package Vertical Air Conditioners and Heat Pumps	Test Procedure	7 Year Review	NOPR	NOPR	10/00/2021
Television Sets	Test Procedure	7-Year Review	NOPR	NOPR	2/00/2022
Traffic Signal Modules and Pedestrian Modules	Test Procedure	EPACT 2005	In Development	Early Assessment Review	12/00/2021
Urinals	Test Procedure	ASME Update / 7-Year Review	Final Rule	Final Action	3/00/2022
Variable Refrigerant Flow - Commercial Package Air Conditioning and Heating Equipment	Test Procedure	7 Year Review / ASHRAE Trigger	NOPR	NOPR	10/00/2021
Variable Refrigerant Flow - Commercial Package Air Conditioning and Heating Equipment	Energy Conservation Standard	6 Year Review / ASHRAE Trigger	NOPR	NOPR	12/00/2021
Walk-in Coolers and Freezers	Energy Conservation Standard	EISA 2007	In Development	Preliminary Analysis / Proposed Determination	5/00/2022
Water Closets	Test Procedure	ASME Update / 7-Year Review	Final Rule	Final Action	3/00/2022
Water-Sourced Commercial Heat Pumps	Test Procedure	7-Year Review	NOPR	NOPR	1/00/2022
Water-Sourced Commercial Heat Pumps	Energy Conservation Standard	6-Year Review	In Development	NODA	8/00/2022

### Other Consumer Product and Commercial/Industrial Equipment Activities

The following table reflects the status of other ongoing energy conservation standards and test procedure activities for products and equipment over which DOE has regulatory authority. DOE plans to publish nine (9) actions related to energy conservation standards for these products and equipment before the end of 2021, including two (2) final rules. Additionally, DOE plans to publish fourteen (14) actions related to test procedures before the end of 2021, including three (3) final rules.

Product	Type	Driver	Current Rulemaking Stage	Next Action	Next Action Date
Automatic Commercial Ice Makers	Energy Conservation Standard	EPACT 2005	In Development	NOPR/ Proposed Determination	2/00/2022
Battery Chargers	Test Procedure	7 Year Review	NOPR	NOPR	8/00/2021
Battery Chargers	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis/ Proposed Determination	1/00/2022
Ceiling Fans	Test Procedure	7 Year Review	Final Rule/ SNOPR	Final Action / SNOPR	8/00/2021
Ceiling Fans	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis/ Proposed Determination	2/00/2022
Ceiling Fan Light Kits	Test Procedure	7-Year Review	NOPR	NOPR	3/00/2022
Ceiling Fan Light Kits	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis/ Proposed Determination	4/00/2022
Circulator Pumps	Test Procedure	ASRAC Recommended	NOPR	NOPR	12/00/2021
Circulator Pumps	Energy Conservation Standard	ASRAC Recommended	In Development	Preliminary Analysis/ Proposed Determination	1/00/2022
Commercial and Industrial Fans	Test Procedure	AMCA Petition	In Development	RFI	8/00/2021
Commercial and Industrial Pumps	Test Procedure	7-Year Review	NOPR	NOPR	2/00/2022
Commercial and Industrial Pumps	Energy Conservation Standard	6 Year Review	In Development	Early Assessment Review	8/00/2021
Commercial Clothes Washers	Test Procedure	7 Year Review	NOPR	NOPR	8/00/2021
Commercial Pre-Rinse Spray Valves	Test Procedure	7-Year Review	Final Rule	Final Action	3/00/2022
Commercial Pre-Rinse Spray Valves	Energy Conservation Standard	6 Year Review	In Development	Preliminary Analysis/ Proposed Determination	8/00/2021

Product	Type	Driver	Current Rulemaking Stage	Next Action	Next Action Date
Commercial Warm Air Furnaces	Energy Conservation Standard	6 Year Review	In Development	Preliminary Analysis/ Proposed Determination	12/00/2021
Consumer Boilers	Test Procedure	7 Year Review	NOPR	NOPR	10/00/2021
Consumer Cooking Products - Cooking Tops	Test Procedure	7 Year Review	NOPR	NOPR	8/00/2021
CUAC & CUHP (Air-Cooled)	Test Procedure	7 Year Review / ASHRAE Trigger	NOPR	NOPR	11/00/2021
CUAC & CUHP (Air-Cooled)	Energy Conservation Standard	6 Year Review	In Development	Preliminary Analysis/ Proposed Determination	12/00/2021
Commercial Warm Air Furnaces	Test Procedure	7-Year Review	NOPR	NOPR	2/00/2022
Consumer Boilers	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis/ Proposed Determination	2/00/2022
Consumer Water Heaters	Test Procedure	7-Year Review	NOPR	NOPR	8/00/2021
Dedicated-Purpose Pool Pumps	Test Procedure	7-Year Review	In Development	Early Assessment Notice	8/00/2021
Dedicated-Purpose Pool Pumps	Energy Conservation Standard	6-Year Review	In Development	Early Assessment Notice	8/00/2021
Dehumidifiers	Test Procedure	7-Year Review	NOPR	NOPR	5/00/2022
Dehumidifiers	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis/ Proposed Determination	6/00/2022
Direct Heating Equipment	Test Procedure	7-Year Review	Final Rule	Final Action	2/00/2022
External Power Supplies (Class A and Non-Class A)	Test Procedure	7 Year Review	Final Rule/ SNOPR	Final Action / SNOPR	9/00/2021
Miscellaneous Residential Refrigeration	Energy Conservation Standard	6 Year Review	In Development	Preliminary Analysis/ Proposed Determination	12/00/2021

Product	Type	Driver	Current Rulemaking Stage	Next Action	Next Action Date
Packaged Terminal Air Conditioners and Heat Pumps	Test Procedure	7-Year Review	NOPR	NOPR	4/00/2022
Packaged Terminal Air Conditioners and Heat Pumps	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis/ Proposed Determination	5/00/2022
Portable Air Conditioners	Test Procedure	7-Year Review	NOPR	NOPR	4/00/2022
2021 Process Improvement Rule (Round 1)	Energy Conservation Standard (and Test Procedure)	Discretionary	Final Rule	Final Action	9/00/2021
2021 Process Improvement Rule (Round 2)	Energy Conservation Standard (and Test Procedure)	Discretionary	Final Rule	Final Action	12/00/2021
Refrigerated Beverage Vending Machines	Test Procedure	7-Year Review	NOPR	NOPR	4/00/2022
Refrigerated Beverage Vending Machines	Energy Conservation Standard	6-Year Review	In Development	Preliminary Analysis/ Proposed Determination	6/00/2022
Short Cycle Product Classes (Dishwashers, Residential Clothes Washers, and Clothes Dryers)	Energy Conservation Standard	Discretionary	NOPR	NOPR	8/00/2021
Showerheads Definition	Test Procedure	Discretionary	Final Rule	Final Action	12/00/2021
Single Packaged Vertical Units	Energy Conservation Standard	6-Year Review	NOPR	NOPR	6/00/2022
Walk-in Coolers and Freezers	Test Procedure	7-Year Review	NOPR	NOPR	4/00/2022