



---

# ENERGY STAR Product Specifications 2025 Business Plan

ENERGY STAR Product Specifications Branch – U.S. Environmental Protection Agency



# 2024 Accomplishments

## Revisions

- **Lab Grade Refrigeration**
- **Dehumidifiers**

## Sunsets

- **Audio/Video**
- **Central Air Conditioning**

## Amendments

- **Air Source Heat Pumps V6.2**

## Test Methods

- **Room Heat Pump Heating Mode Efficiency**

# ENERGY STAR Products Plan 2025

Draft/Deliberative - DO NOT RELEASE



# Keeping Product Specifications Up-to-date

- 15 total specification updates underway in 2025; anticipate 8 completed; Drivers include:
  - high market share and more than 3 years since last revision
  - new federal standards
  - new efficiency opportunities
  - opportunity to expand coverage
- 3 new product development efforts under consideration; anticipate 2 completed; Drivers include:
  - opportunity to expand coverage
  - potential to differentiate products
- Test method development to support keeping specifications up-to-date and allow for new product types.

# 2025 Planned Revisions and New Specifications

## *Revisions*

- **Electronics:** Computers, Displays, EVSE
- **Heating and Cooling:** Boilers, Commercial Water Heaters, Furnaces, Smart Thermostats, Water Heaters
- **Appliances:** Clothes Dryers, Clothes Washers, Consumer Refrigeration Products, Room Air Conditioners, Room Air Cleaners
- **Commercial Food Service:** Commercial Dishwashers, Commercial Steam Cookers

## *New Specification Developments*

- Medical Imaging Equipment
- New heat pump types
- Air to Water Heat Pumps

# 2025 Planned Amendments and Test Method Activity

## Amendments

- **Heating, Ventilating, and Cooling:**
  - Heat Pumps dual fuel applications

## ENERGY STAR Test Methods

- **Heating, Ventilating, and Cooling:**
  - Smart Thermostats Method to Demonstrate Field Savings and associated software
  - Packaged terminal heat pumps low ambient temperature performance
  - Commercial central Heat Pump Water Heaters
  - Heat Pump Boilers
- **Appliances:**
  - Commercial dryer test procedure
- **Electronics:**
  - EVSE test method

# Appendix #1: Detailed Plan for Revised Specifications

# ENERGY STAR Product Specifications Update

Product Category	Drivers	Milestones (projected dates)	Testing Protocol
Heating and Cooling			
Commercial Water Heaters	Expand to include Central Heat Pump Water Heaters systems; gas market share in 2023 48%	Q1: Final TM; Draft 1 specification	DOE Regulatory Test plus ENERGY STAR Test Method for central HPWH
Furnaces	Time since revision (2013) and market share in 2023 New DOE standard effective in 2028	Q1: Finalize	
Residential Boilers	Time since revision (2014) and gas market share in 2023 53%	TBD	
Residential Water Heaters	New standard for connectivity	TBD	
Connected Thermostats	Opportunity to expand scope and improve savings metric.	Q1: Final Draft (and Final Draft TM) Q2: Finalize	ENERGY STAR Method to Demonstrate Field Savings





# ENERGY STAR Product Specifications Update

Product Category	Drivers	Milestones (projected dates)	Testing Protocol
<b>Appliances</b>			
Clothes Dryers	Time since revision (2014) and market share in 2023 42%	Q1: Draft 1 Q2: Subsequent Draft(s); Finalize	DOE Regulatory Test Procedure
Consumer Refrigeration Products	Time since revision (2014) and refrigerators market share in 2023 66%	Q1: Draft 1 Q2: Draft 2 Q2: Finalize	DOE Regulatory Test Procedure
Clothes Washers	Time since revision (2018) and market share in 2023 59%	Q1: Draft 1 Q2: Subsequent Draft(s); Finalize	DOE Regulatory Test Procedure
Room Air Cleaners	Time since revision (2020) and market share in 2023 89%	Q1: Finalize	DOE Regulatory Test Procedure
Room Air Conditioners	Opportunity to include Room Heat Pump criteria; New DOE federal standards required on May 26, 2026	Q1: Final Draft; Finalize	DOE Regulatory Test Procedure; ENERGY STAR RAC Heating Mode Test



# ENERGY STAR Product Specifications Update

Product Category	Drivers	Milestones (projected dates)	Testing Protocol
<b>Electronics and IT</b>			
Computers	Time since revision (2020) and market share in 2023 99% 99% notebooks, 89% desktops	Q1: Finalize	ENERGY STAR Test Procedure
Displays	Market Share in 2023 80%	TBD	
EVSE	Interest from stakeholders in expanding scope; high market share for AC and DC chargers in 2023	Q1: Draft 1	ENERGY STAR Test Method for EVSE
<b>Commercial Food Service</b>			
Steam Cookers	Time since revision (2003) and market share in 2023 65%	TBD – pending staffing	ASTM F1484-18
Commercial Dishwashers	Time since revision (2021) and market share in 2023 53%	TBD – pending staffing	

# Appendix #2: 2025 Plans for New Specifications

# 2025 Plans for New Specifications

Product Category	Drivers	Milestones (projected dates)	Testing Protocol
<b>Appliances</b>			
Medical Imaging Equipment	Energy savings	Q1: Final	ENERGY STAR Test Method based on COCIR
Packaged Terminal Heat Pumps	Needed for efficient options for multi-family	Q1: Final Draft; Final	ENERGY STAR Low Ambient Test method, DOE Regulatory Test Method(s)
Space-constrained and Small duct high velocity Heat Pumps	Opportunity to expand coverage; Needed for efficient options for multi-family	Q2: Draft 1 (amendment to heat pump specification)	DOE Regulatory Test Method(s)
Air-to-Water Heat Pumps (Heat Pump Boilers)	Opportunity to expand coverage; Needed to provide heat pump options for water-based heating applications	TBD	ENERGY STAR Test Method for Heat Pump Boilers