
ENERGY STAR Products Plan 2020

2019 Accomplishments

Revisions/New Specifications

- Displays V8.0
- Vending Machines V4.0
- Dehumidifiers V5.0
- Roofs (sunset)
- Air Cleaners V2.0
- Computers V8.0
- Smart Home Energy Management Systems (SHEMS) V1.0

Amendments

- Vending 3.2

Keeping Product Specifications Up-to-date

- 13 total specification updates underway in 2020 anticipate 7 completed
 - Drivers:
 - growing market share
 - new federal standards
 - new efficiency opportunities
 - opportunity to expand coverage
- 5 new product development efforts under consideration
 - Drivers:
 - significant energy savings
 - potential to differentiate products
- Test method development to support keeping specifications up-to-date

2020 Planned Revisions

- **Electronics:** Audio/Video, Data Center Storage, Small Network Equipment, Set Top Boxes
- **Heating, Ventilating, and Cooling:** Central Air Conditioning/Air Source Heat Pumps, Furnaces (FERS), Smart Thermostats
- **Appliances:** Dishwashers
- **Commercial Food Service:** Commercial Dishwashers, Commercial Ovens, Steam Cookers
- **Home Envelope:** Windows/Doors/Skylights
- **Other:** Water Coolers

2020 Planned Amendments and Test Method Activity

- **Electronics:** Televisions (amend requirements; work within IEC on Test Method development), Imaging Equipment Test Method (scope expansion for Professional Products and Test Method); EVSE Amendment (scope expansion for DC Fast Charge, Test Method, and optional connected criteria), Residential Battery Storage (support Test Method development)
- **Heating, Ventilating, and Cooling:** Water Heaters (optional connected criteria and Test Method; (scope expansion for additional HP types (DGX to water))
- **Appliances:** Refrigerators/Freezers (scope expansion for Miscellaneous Refrigeration)
- **Commercial Food Service:** Commercial Refrigeration Test Method (product review and groundwork for scope expansion for chef base, buffet prep table, blast chillers); Commercial Ice Test Method (groundwork for scope expansion for melt and purge)
- **Other:** Pool Pumps Amendment (update optional connected criteria)

2020 Products Under Consideration

- Demand Control Kitchen Ventilation
- Induction Cooktops (residential and commercial)
- Microwave Ovens
- Rooftop Solar

2020 ENERGY STAR Revisions/New Products Under Consideration by Product Category

ENERGY STAR Product Category	Revisions Underway	New Products Under Consideration
Electronics	4	
Heating and Cooling	3	
Residential Appliances	1	2
Commercial Food Service	3	2
Home Envelope	1	
Other	1	1

Appendix #1:

DETAILED PLAN FOR REVISED SPECIFICATIONS

Electronics & Computing

Product Category / Product	Drivers	Milestones (projected dates)	Testing Protocol
Audio/Video	ESRPP interest in Sounds Bars. CTA industry consensus test method development to better recognize gains in efficiency.	1/20: Draft 1 TM (V4.0) 2/20: Call for data 3/20: Draft 1 Spec 5/20: Draft 2 Spec 7/20: Final Draft Spec 8/20: Final	DOE-Developed ENERGY STAR Test Procedure
Data Center Storage	New Emerald Test Method and development of criteria levels.	2/20: Draft 2 4/20: Final Draft 5/20: Final	SNIA Emerald based
Small Network Equipment	Set new, more stringent levels given v1.0 qualification data received and Voluntary Agreement.	2/20: Draft 1 4/20: Draft 2 6/20: Final Draft 7/20: Final	DOE-Developed ENERGY STAR Test Procedure
STBs	Shifting market, VA that acts as backstop	1/19: Propose Sunset	ENERGY STAR Test Procedure

Heating, Cooling, & Ventilating

Product Category / Product	Drivers	Milestones (projected dates)	Testing Protocol
Central AC/ASHP	Recognize market leader shift to variable or stepped capacity; incentivize cold climate performance; add optional connected criteria.	Q1 2020: Finalize	DOE Regulatory Test Procedure
Furnaces	Add fan performance (based on FERS).	Q1/Q2 2020: Launch	DOE Regulatory Test Procedure
Smart Thermostats	Close resistance heating loophole, expand to include communicating and line voltage thermostats, possibly update metric for closer relationship to meter savings	Q1/Q2 2020: Metrics workgroup meets monthly, programming updates Q3: Launch	ENERGY STAR Method to Demonstrate Field Savings

Appliances

Product Category / Product	Drivers	Milestones (projected dates)	Testing Protocol
Dishwashers	Market share 90%.	1/20: Draft 1 3/20: Draft 2 7/20: Finalize	DOE Regulatory Test Procedure

Commercial Food Service

Product Category / Product	Drivers	Milestones (projected dates)	Testing Protocol
Commercial Dishwashers	Market share 59% and New ASTM test method.	2/20: Final Draft 3/20: Final	ASTM test methods: ASTM F1696-18 and ASTM F1920-15.
Commercial Ovens	Market share 60%.	3/20: Draft 1 5/20: Draft 2 7/20: Final Draft 8/20: Final	ASTM test methods: ASTM F1496-13, ASTM F2861-14, and ASTM F2093-11.
Steam Cookers	Opportunity to update referenced test method, revise idle rate, and cooking efficiency levels, include max water consumption levels, and differentiate boilerless and steam generator efficiency thresholds.	6/20: Draft 1 8/20: Draft 2 10/20: Final Draft 11/20: Final	ASTM F1484: <i>Test Method for the Performance of Steamers</i> . Update to ASTM F1484-18.

Home Envelope/Lighting

Product Category / Product	Drivers	Milestones (projected dates)	Testing Protocol
Windows, doors, and skylights	Market share 85% for Windows, 80% for Doors, 68% for Skylights	Q2 2020: Criteria Analysis Report and Draft 1 Q4: 2020 Final Draft	

Other

Product Category / Product	Drivers	Milestones (projected dates)	Testing Protocol
Water Coolers	Market share 62% calling for a revision of the eligibility criteria	2/20: Draft 1 4/20: Draft 2 6/20: Final draft 7/20: Final	ENERGY STAR test method

Appendix #2:

2020 PRODUCTS UNDER CONSIDERATION

2020 Products Under Consideration *

Product	Drivers	Testing Protocol
Demand Control Kitchen Ventilation	Field study savings (60% or more)	Emerging Tech Award Criteria as a starting point
Induction Cooktops (residential/commercial)	Utility interest	DOE regulatory test method for residential (note: NOPR has been released).
Microwave Ovens	Savings	DOE regulatory test method
Rooftop Solar	Market Opportunity	TBD

* As resources allow; **dependent on demonstrated savings potential