
ENERGY STAR Products Plan 2019

2018 Accomplishments

Revisions/New Specifications

- Computers V7.0
- TVs V8.0
- Pool Pumps V2.0 and V3.0
- Servers V3.0
- Storm Windows V1.0
- Imaging V3.0

Amendments

- Luminaires V2.1
- Storage V1.1
- Coffee V1.1
- Vent Fans V4.1
- Room Air Conditioners V4.1
- Computers V7.1

Keeping Product Specifications Up-to-date

- 19 total specification updates underway in 2019 anticipate 10 completed
 - Drivers:
 - growing market share
 - new federal standards
 - new efficiency opportunities
 - opportunity to expand coverage
- 7 specification development efforts for new products underway
 - Drivers:
 - significant energy savings
 - potential to differentiate products
- Test method development to support keeping specifications up-to-date

2019 Planned Revisions

- **Electronics:** Audio/Video, Computers (desktops), Displays, Small Network Equipment, Enterprise Storage, STBs
- **Heating, Ventilating, and Cooling:** Central Air Conditioning/Air Source Heat Pumps, Dehumidifiers, Furnaces (FERS)
- **Appliances:** Room Air Cleaners, Dishwashers
- **Commercial Food Service:** Commercial Dishwashers, Commercial Ovens, Steam Cookers, Vending Machines
- **Home Envelope:** Windows/Doors/Skylights
- **Other:** Lab-Grade Refrigeration, Water Coolers, Roofs

2019 Planned Amendments and Test Method Activity

- **Electronics:** Televisions (work within IEC to develop new luminance test), UPS TM (groundwork for scope expansion for low power DC output UPSs), Imaging Equipment TM (Professional Products Test Method); EVSE Amendment (scope expansion to DC fast charge)
- **Heating, Ventilating, and Cooling:** Smart Thermostats TM (address broader range of savings strategies), Residential Boilers TM (groundwork for scope expansion for idle losses and combination units)
- **Appliances:** Water Heaters, Residential Clothes Washer, and Residential Dryer Amendments (optional connected criteria and/or TM)
- **Commercial Food Service:** Commercial Refrigeration TM (groundwork for scope expansion for chef base, buffet prep, blast chillers); Commercial Ice TM (groundwork for scope expansion for melt and purge)
- **Lighting:** Luminaires Amendment (allowance for USB charging)
- **Other:** Pool Pumps Amendment (optional connected criteria and TM)

2019 Planned Development of New Product Specifications

- Elevators
- Energy Battery Storage
- Microwaves
- Miscellaneous Refrigeration
- Portable AC
- Smart Home Energy Management Systems
- Wireless Charging

ENERGY STAR Revisions/Development by Product Category 2019

ENERGY STAR Product Category	Revisions Underway	New Developments Underway
Electronics	6	1
Heating and Cooling	3	
Residential Appliances	2	3
Commercial Food Service	4	
Home Envelope	1	
Other	3	3

Appendix #1:

DETAILED PLAN FOR REVISED SPECIFICATIONS

Electronics & Computing

Product Category / Product	Drivers	Milestones (projected dates)	Testing Protocol
Audio	Market share for Blu-Ray players 60%. ESRPP interest in Sounds Bars. Need to revise test method to better recognize gains in efficiency.	3/19: Draft 1, V4.0	DOE-Developed ENERGY STAR Test Procedure
Computers	Market share 52% desktops. Continued need to address power management for notebooks, new desktop metric and need to differentiate from California standards. Complete V7 laptops and launch V8 desktops in 2018.	3/19: Draft 1 6/19: Draft 2 9/19: Final Draft 10/19: Final	DOE-Developed ENERGY STAR Test Procedure
Data Center Storage	New Emerald Test Method and development of criteria levels.	5/19: Discussion Guide 7/19: Draft 1, V2.0 10/19: Draft 2, V2.0	SNIA Emerald based
Displays	Preliminary market share (estimated 2017 shipments) 90% for monitors.	3/19: Final	DOE-Developed ENERGY STAR Test Procedure
Small Network Equipment	Set new, more stringent levels given v1.0 qualification data received and Voluntary Agreement.	Q2-4/19: Assess if spec revision is warranted	DOE-Developed ENERGY STAR Test Procedure
STBs	Voluntary Agreement	3/19: Review and determine next steps	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.	5/19: Draft 1 Potentially finalize by end of 2019	DOE Regulatory Test Procedure; ENERGY STAR Test for Cold Climate performance (DOE leads); ENERGY STAR Test for Demand Response (DOE leads)
Dehumidifiers	Market share 45%.	2/19: Finalize	DOE Regulatory Test Procedures
Furnaces	Add fan performance (based on FERS).	Q3/4 2019: Launch	DOE Regulatory Test Procedure

Appliances

Product Category / Product	Drivers	Milestones (projected dates)	Testing Protocol
Dishwashers	Market share 91%.	4/19: Draft 1 7/19: Draft 2	DOE Regulatory Test Procedure
Room Air Cleaners	Technological innovation	4-6/19: Drafts 7/19: Final	ANSI/AHAM AC-1-2006; UL 867 Ed. 4.0; IEC 62301 Ed. 1.0

Commercial Food Service

Product Category / Product	Drivers	Milestones (projected dates)	Testing Protocol
Commercial Dishwashers	Market share 67% and New ASTM test method.	2/19: Draft 1 5/19: Draft 2 7/19: Final Draft 8/19: Final	DOE participated in the ASTM F26 revision of the test method. ASTM F1696-18 and ASTM F1920-15.
Commercial Ovens	Market share 59%.	4/19: Draft 1 7/19: Draft 2 9/19: Final draft 10/19: 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.	9/19: Draft 1	ASTM F1484: <i>Test Method for the Performance of Steamers</i> . Update to ASTM F1484-18.
Vending Machines	New federal standard. Including scope expansion to combination machines.	3/19: Draft 3 or Final Draft	DOE Regulatory Test Procedure: 10 CFR Part 431 Subpart Q, Appendix B

Home Envelope/Lighting

Product Category / Product	Drivers	Milestones (projected dates)	Testing Protocol
Windows, doors, and skylights	Market share 84% for Windows, 81% for Doors, 68% for Skylights	Q2 2019: Discussion Guide Q4: Draft 1	

Other

Product Category / Product	Drivers	Milestones (projected dates)	Testing Protocol
Lab-grade refrigeration	Market share data unavailable. Technological Innovation. Interest among partners to clarify aspects of spec	9/19: Draft 1	ENERGY STAR test method
Roofs	Concerns with ENERGY STAR Roof program (inadequacy of binary label for complex decision, commercial code exceeds ENERGY STAR)	2/19: Finalize consideration regarding sunset proposal	ASTM and ENERGY STAR test method
Water Coolers	Market share 67%. Scope expansion opportunities. More stringent certification levels. Potential test method amendments.	3/19: Draft 1 6/19: Draft 2 8/19: Final draft 9/18: Final	ENERGY STAR test method

Appendix #2:

DETAILED PLAN FOR NEW SPECIFICATIONS

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

2019 New Product Efforts*

Product	Drivers	Milestones (projected dates)	Testing Protocol
Elevators	Energy Savings	Q2-4: Discussion Guide	VDI 4707
Energy Battery Storage	Integral part of efficient grid; examine potential to offer differentiation and connected criteria	Q2-3: Discussion Guide	TBD
Microwaves	Savings	Q3: Draft 1	DOE regulatory test method.
Miscellaneous Refrigeration	Brand owner interest	Q2: Draft 1	DOE regulatory test method.
Portable AC	Savings	Q2: Draft 1	DOE regulatory test method.
Smart Home Energy Management Systems	Stakeholder interest, market opportunity, potential to offer differentiation as smart home market takes off.	Q1: Draft 1 Q3-4 Finalize	Field data
Wireless Charging**	Manufacturer interest	4/19: Data assembly	Industry Developed Test Procedure