



ENERGY STAR Program Update

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2009 Accomplishments: New and Revised Specifications



4 new products; 8 specification revisions

- New Specifications Completed
 - Servers, V1.0
 - CFS Ovens, V1.0
 - CFS Griddles, V1.0
 - Integral LED Lamps (DOE)
- Specifications revised
 - Displays, V5.0
 - TVs, 4.0 and 5.0
 - Audio/Video, V2.0
 - CFS Refrigerator/Freezer, V2.0
 - Geothermal HP, V3.0
 - Light Commercial HVAC, V2.0
 - Ventilation Fans, V2.2
 - Windows, Doors, and Skylights, V5.0 (DOE)

2010 Scoping Plans



- As resources allow, EPA will undertake scoping efforts (each effort takes approximately 2 months)
- Receive stakeholder comments on priorities

Product Category	Product
Appliances	Clothes Dryers
Home Electronics	Home Data Storage
	Home Security Systems
	Projectors
Other Home Misc.	Garage Door Opener with light kit
Lighting	Lighting Controls
Data Centers	Data Center Telecom Networking
Medical Equipment	TBD

2010 New Product Efforts



EPA will advance new product categories as resources allow, with qualification and verification testing enhancements being a priority.

Product	Specification Date
Lab-grade Refrigerators and Freezers	Q3 2010, contingent on data
CFS Pre-rinse Spray Valves	Q1 2011
Packaged Terminal Air Conditioners**	TBD
Pool and Sump Pumps**	TBD
SSL Outdoor Luminaires	Q3 2010
Uninterruptible Power Supplies (UPS): Home to Data Center	Q4 2010
Data Center Storage	Q4 2010
Small Network Equipment	Q3 2010
Climate Controls	Q4 2010

Specification Revisions



Product Category / Product	Specification Date
Commercial Food Service	
Commercial Ice Makers	Q1 2011
Commercial Fryers	Q4 2010 / Q1 2011
Hot Food Holding Cabinets	Q3 2010
Commercial Dishwashers	Q3 2010
Electronics and Computing	
Data Center / Servers, Tier 2	Q4 2010
Home Electronics / Battery Chargers	Q4 2010
Home Electronics / Set Top Boxes, Tier 2	Q3 2010
Office Equip. / Computers	Q2 2011
Office Equip. / Computers: Game Consoles	Q2 2010
Imaging*	v1.1: July 2010

Other / Appliances



Product Category / Product	Specification Date
Heating, Cooling, & Appliances	
Heating & Cooling / Light Commercial HVAC, Tier 2	July 1, 2011 (Effective Date)
Appliances / Room Air Conditioners (RAC)	Q4 2011
Heating & Cooling / Furnaces	Q2 2011
Heating & Cooling / Boilers	TBD
Appliances / Dehumidifiers	TBD
Heating & Cooling / CAC / ASHP	TBD
Heating & Cooling / ERVs / HRVs	TBD
Building Products	
Windows, Doors and Skylights	Phase 1 – Jan 4, 2010 (Effective Date) Phase 2 – TBD
Appliances and Lighting	
Appliances: Clothes Washers; Dishwashers; Refrigerators and Freezers	TBD
Residential Water Heaters	TBD
Water Coolers	TBD
Ceiling Fans / Light Kits	TBD

Light Fixtures/Sources



- Goal:
 - Combine two specifications to allow technologies to compete
 - Will allow fair comparisons of different technologies for consumers
 - Set technology neutral test procedures for energy efficiency and color
- Timeline:
 - Fixtures: September 2010 – anticipated completion of specification
 - Sources: Anticipated first draft light source specification (September 2010)

ENERGY STAR Enhanced Testing and Verification Overview



Testing Enhancement

Purpose:

Key Approaches:

Qualification Testing

- *Ensure each product meets ENERGY STAR specification prior to being labeled with the ENERGY STAR*

- Require test data for each product from approved, accredited lab.
- Data may be provided to EPA through approved third-party certification system

Verification Testing

- *Ensure that products continue to meet ENERGY STAR requirements*

- Require ongoing verification testing as a condition of ENERGY STAR logo use
- Verification testing administered through third-party testing program
- DOE has initiated verification testing through Testing Pilot Program
- DOE to provide ongoing QA for verification testing

Key Elements of Enhanced Testing Requirements



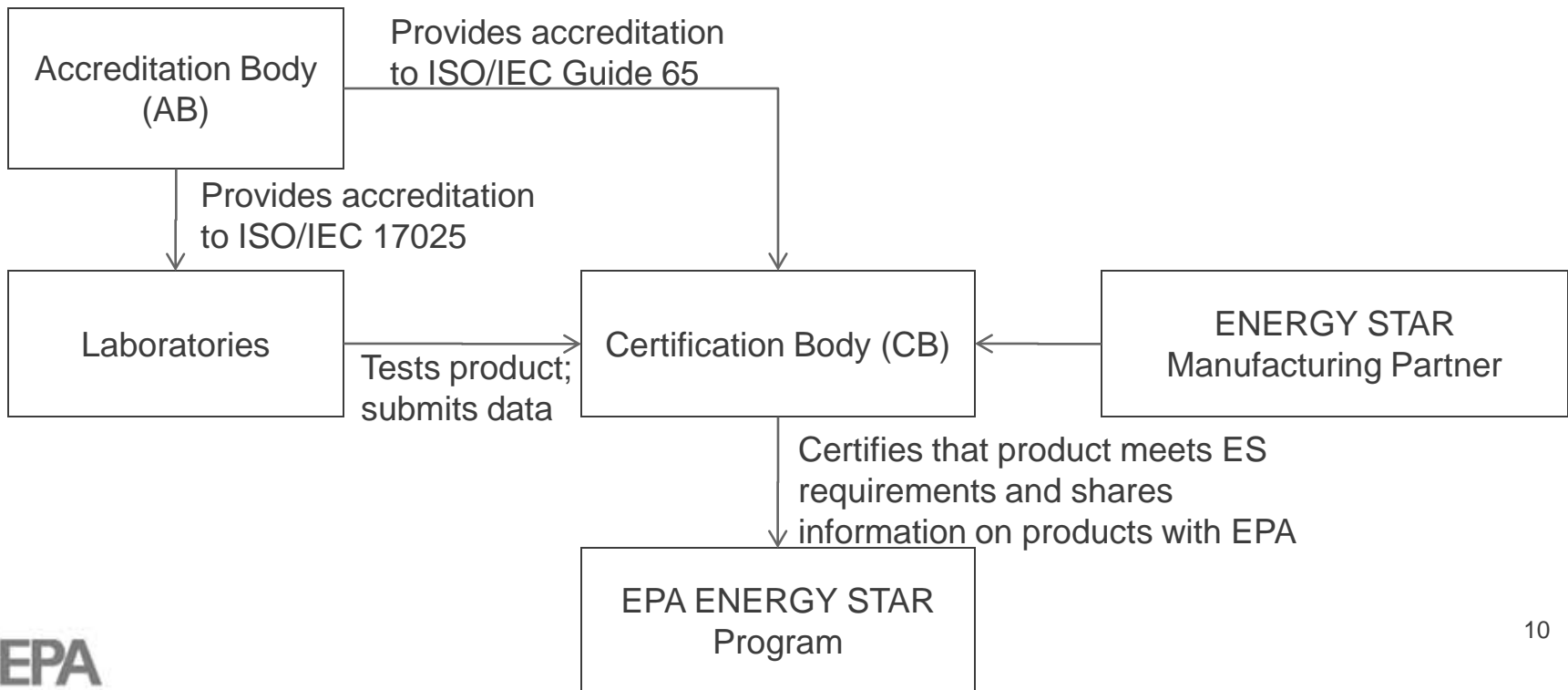
- Testing and reporting prior to qualification
 - Ensure that EPA has testing information on all products prior to labeling
 - Require test data from accredited labs that is representative of the product in the marketplace
- Continued testing after qualification
 - Verify that products continue to meet the ENERGY STAR requirements regardless of changes in the production process
 - Provide consumers with confidence that ENERGY STAR products are delivering the savings they expect

ENERGY STAR Enhanced Testing and Verification Overview



New Requirements for all ENERGY STAR Products
Scope: All ENERGY STAR Product Categories

- Third-party certification
- Testing conducted in EPA-recognized labs



Accreditation Bodies (AB)



- Key Responsibilities:
 - Attest to the technical competence of laboratories to perform tests as outlined in the ENERGY STAR Laboratory Accreditation Requirements.
 - Assure the list of specific test procedures is included within the scope of accreditation for the laboratory.
 - Conduct onsite assessments of each laboratory per the ILAC MRA and ISO/IEC 17011 requirements.
 - ABs must operate accreditation program in accordance with ISO/IEC 17011 and must maintain status as a signatory to ILAC MRA (International Laboratory Accreditation Forum Mutual Recognition Arrangement).
 - Publish current list of accredited laboratories on Web site.

EPA-recognized Labs



- Maintain accreditation to ISO/IEC 17025
- Have recorded in its Scope of Accreditation its specific competence to carry out the test methods as outlined in the ENERGY STAR program.
- Agree to participate in relevant and available inter-laboratory comparison testing when EPA/DOE deems it necessary.
- Submit documentation demonstrating impartiality if an in-house lab.
- Also considering option for in-house labs that are covered by a CB's accreditation
 - Labs would need to meet the same criteria, but CB rather than AB would have oversight of the lab.

Certification Bodies (CB)



- Key Responsibilities:
 - Maintain accreditation to ISO/IEC Guide 65
 - Provide EPA with third party written certification for each model intended for ENERGY STAR qualification by reviewing test results.
 - Maintain product design specifications for the products it certifies, and conduct random inspections at the manufacturing location.
 - Have in place a verification testing procedure that fulfills EPA requirements.
 - Have in place a challenge testing procedure that meets EPA requirements.
 - Oversee competency of in-house labs through supervised or witnessed testing program (optional)



Thank you

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US EPA - ENERGY STAR Product Labeling

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Learn more at energystar.gov