

ENERGY STAR Certified ProductsSuccess of the Program and the Certification Process

SIM Building Energy Efficiency and Labeling Workshop at NIST

Eamon Monahan October 27, 2015







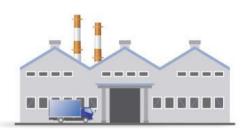
For more than **20 years**, EPA's ENERGY STAR program has identified the most energy efficient products, buildings, plants, and new homes – all based on the latest government-backed standards and a rigorous third-party certification process.



















ENERGY STAR TODAY

Of the **87% of households** that recognize the ENERGY STAR label

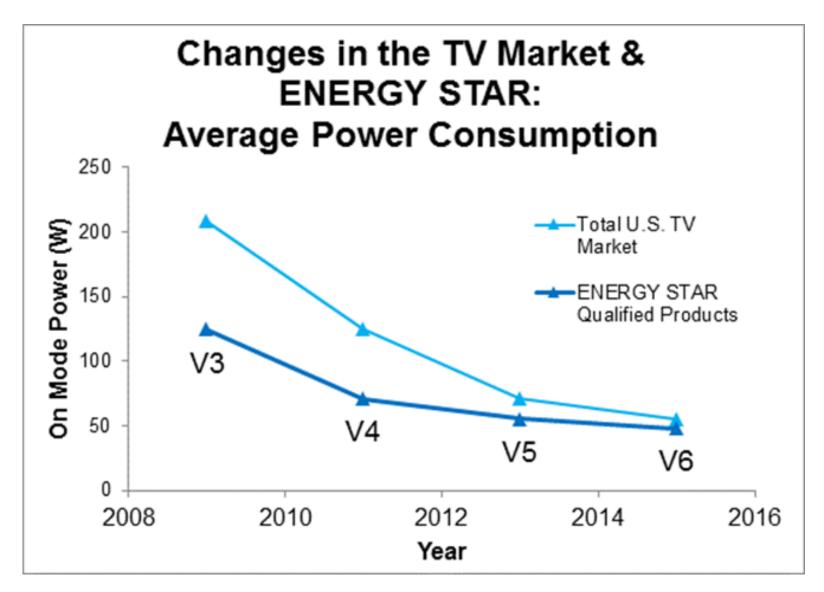
75% recalled purchasing an ENERGY STAR-labeled product in the past year

73% said the label influenced at least one of their purchase decisions very much or somewhat

75% were likely to recommend ENERGY STAR-labeled products to a friend

30% were extremely likely to recommend ENERGY STAR

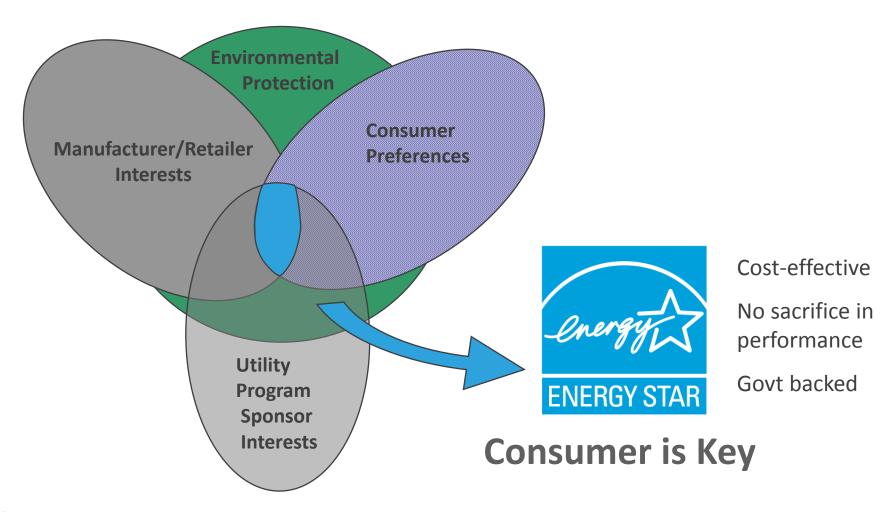








Builds Upon Intersection of Interests







Lighting

Residential lamps Residential light fixtures



Home Envelope

Roof products Windows/Doors

Heating & Cooling

Cooling
Central AC
Heat pumps
Boilers
Furnaces
Ceiling fans
Room AC
Ventilating fans

Water Heaters

Office Equipment

Computers
Monitors
Printers
Copiers
Multi-function
Devices
Servers

Storage

UPS

Commercial Food Service

Dishwashers
Refrigerators
Freezers
Ice Machines
Fryers
Steamers
Hot Cabinets
Griddles
Ovens
Vending

machines

Appliances

Clothes washers
Dishwashers
Refrigerators
Dehumidifiers
Air cleaners
Water coolers

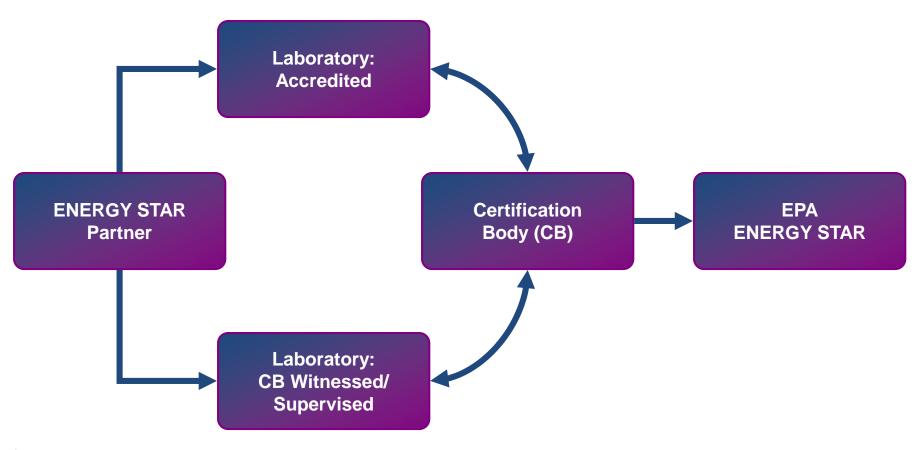
Home Electronics

Battery chargers
Cordless and
IP phones
TV
Set Top boxes
Home audio





Product Certification Process







International Standards

INTERNATIONAL ISO/IEC INTERNATIONAL ISO/IEC 17011 STANDARD STANDARD 17025 First edition Second edition 2004-09-01 2005-05-15 Corrected version 2005-02-15 INTERNATIONAL ISO/IEC Conformity assessment — General 17065 STANDARD nents for the competence requirements for accreditation bodies **GUIDE 65** libration laboratories accrediting conformity assessment First adition bodies 2012-09-15

and services

les produits. les procédés et les services

Conformity-assessment — Requirements

for bodies certifying products, processes

Évaluation de la conformité - Exigences pour les organismes certifiant

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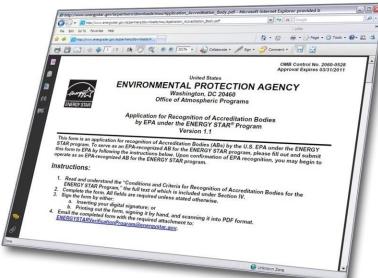




EPA Recognition

 EPA accepts and reviews applications for recognition on an ongoing basis

 All ABs, CBs, and Labs require EPA recognition







ENERGY STAR Recognized Bodies for Certification (September 2015)

Recognized Organizations

Туре	Total
Accreditation Bodies	25
Certification Bodies	25
Laboratories	
(Accredited and	620
W/SMTLs)	
Accredited	292
SMTL	216
WMTL	112

Laboratories by Location

	Accreaitea			
Country	Laboratories	SMTLs	WMTLs	Totals
Australia	1	0	0	1
Austria	0	1	0	1
Brazil	2	0	0	2
Canada	12	12	7	31
China	80	41	24	145
Denmark	0	0	1	1
Germany	8	4	4	16
Guatemala	1	0	1	2
Hong Kong	3	0	0	3
India	1	0	0	1
Italy	3	1	2	6
Japan	16	14	5	35
Malaysia	2	2	0	4
Mexico	0	9	1	10
Netherlands	2	1	1	4
New Zealand	0	2	0	2
Singapore	2	0	0	2
South Korea	17	13	4	34
Spain	2	0	0	2
Sweden	1	1	0	2
Taiwan	40	3	14	57
Turkey	0	4	0	4
United Kingdom	3	2	0	5
United States	96	106	48	250
Totals	292	216	112	620





Verification Testing

 Verification testing ensures models meet ENERGY STAR requirements postqualification

10% of representative models certified by each CB are selected for testing, with input from EPA and possibly other third parties. Partner funds verification testing, which will be off-the-shelf third-party testing, or off-the-line first-party testing witnessed by a third party. CB has units tested; shares results with EPA.





2014 Verification Testing

- 2,070 Products Tested
 - 116 Appliances
 - 422 Lighting and Fans
 - 377 HVAC
 - 510 Consumer Electronics/ Information Technology
 - 138 Commercial Food Service
 - 477 Home Building Supplies
 - 30 Other





2014 Verification Testing

58 unique disqualifications and 122 total products disqualified

Product Category	Number of Unique Disqualifications	Total Number of Products Disqualified
Ceiling Fans	4	5
CFLs	11	33
Commercial Griddles	1	3
Commercial Refrigerators and Freezers	3	3
Computers	7	8
Furnaces	2	2
Geothermal Heat Pumps	1	3
Integral LED Lamps	3	7
Luminaires	14	30
Roof Products	2	2
Televisions	1	1
Ventilating Fans	7	23
Water Coolers	1	1
Windows, Doors, and Skylights	1	1



Possible New Product Categories, 2014-2015

- Clothes dryers
- Commercial coffee makers
- Hand dryers
- Large network equipment
- Lab-grade refrigerators
- Medical imaging

- 1. Finalize the test procedure
- 2. Finalize the spec
- EPA-administered training for CBs
- 4. Open up the application for labs and CBs





Thanks!

Eamon Monahan monahan.eamon@epa.gov 202-343-9589

