ENERGY STAR® Unit Shipment and Market Penetration Report Calendar Year 2011 Summary

This is the tenth year in which ENERGY STAR has collected unit shipment data from partners and/or their representative associations and used it to project the market penetration of ENERGY STAR qualified products.

Data:

For 2011, data was collected for the following ENERGY STAR qualified products:

- Audio/Video
- Battery Charging Systems
- Boilers
- Ceiling Fans
- Central Air Conditioners and Air-Source Heat Pumps (CAC/ASHP)
- Clothes Washers
- Commercial Dishwashers
- Commercial Fryers
- Commercial Griddles
- Commercial Hot Food Holding Cabinets
- Commercial Ice Machines
- Commercial Ovens
- Commercial Refrigerators and Freezers
- Commercial Steam Cookers
- Computer Servers
- Computers
- Decorative Light Strings (DLS)
- Dehumidifiers
- Dishwashers

- Displays
- Furnaces
- Geothermal Heat Pumps
- Imaging Equipment
- Lamps
- Light Commercial HVAC
- Luminaires
- Refrigerators and Freezers
- Roof Products
- Room Air Cleaners
- Room Air Conditioners
- Set-top Box Service Providers
- Set-top Boxes
- Telephony
- Televisions
- Vending Machines
- Ventilating Fans
- Water Coolers
- Water Heaters

Methodology:

ENERGY STAR market penetrations for a given year are derived by dividing ENERGY STAR qualified product shipments by total U.S. shipments.

ENERGY STAR Shipment Data

ENERGY STAR shipment data is collected from program partners for each calendar year. EPA uses this data as the representative value of all ENERGY STAR qualified product shipments for the respective year; that is, no adjustments are made to the totals to account for partners that fail to report their shipments. Using the reported data represents a conservative approach. Though this method may underestimate ENERGY STAR market penetration, the data are reliable and the method is easily replicated. Further, response rates for all collected product categories average approximately 89%, suggesting that reported shipments closely approximate actual ENERGY STAR qualified product shipments.

U.S. Shipment Data

U.S. shipments are based on modeled and documented data. Industry data is used as a direct input whenever available and compared to forecast assumptions to ensure data comparability. Industry sources include trade associations, publications, and commercially available market research.

Response Rate:

Percent of Partners that Submitted CY2011 Unit Shipment Data:

Product Category	Response	Number of Manufacturers
	Rate (%)	Required to Respond
Audio/Video	88%	26
Battery Charging Systems	77%	43
Boilers	93%	45
Ceiling Fans	86%	49
Central ACs and Air-Source Heat Pumps	91%	33
Clothes Washers	100%	16
Commercial Dishwashers	100%	19
Commercial Fryers	100%	11
Commercial Griddles	100%	7
Commercial Hot Food Holding Cabinets	100%	23
Commercial Ice Machines	86%	7
Commercial Ovens	100%	16
Commercial Refrigerators and Freezers	100%	41
Commercial Steam Cookers	92%	12
Computer Servers	100%	12
Computers	71%	96
Decorative Light Strings	84%	32
Dehumidifiers	88%	24
Dishwashers	100%	17
Displays	89%	55
Furnaces	96%	26
Geothermal Heat Pumps	100%	25
Imaging Equipment	100%	57
Lamps	88%	187
Light Commercial HVAC	100%	9
Luminaires	91%	214
Refrigerators and Freezers	97%	38
Roof Products	85%	310
Room Air Cleaners	97%	29
Room Air Conditioners	94%	16
Set-top Box Service Providers	100%	5
Set-top Boxes Manufacturers	87%	15
Telephony	100%	12
Televisions	83%	46
Vending Machines	89%	9
Ventilating Fans	98%	42
Water Coolers	100%	27
Water Heaters	77%	48
Total	89%	1699

Results:

The goal of the ENERGY STAR program is to reduce greenhouse gas and other emissions associated with avoidable energy consumption by transforming the market for energy efficient products, buildings and services, so that more energy efficient options become the norm and persist in the marketplace. As this occurs, EPA looks for additional opportunities to improve efficiency by tightening energy and environmental performance standards for a given product or service, and revising specifications accordingly.¹

The below estimates of market penetration for calendar year 2011 provide a key indicator of whether the market is being transformed for a given product, and are used to inform the specification revision process. As noted in highlights, significant market penetration was anticipated for some product categories, and new criteria have already been established or are currently being developed.

ENERGY STAR CY2011 Qualified Units Shipped, Corresponding Estimated Market Penetration, and Relevant Specification Updates:

Key and notes				
	New specification effective in 2012; market penetration under the currently			
	effective specification is likely to be lower.			
	New specification effective in 2013 or beyond.			

Product Category ²	2011 Units Shipped (thousands unless otherwise stated)	2011 Estimated Market Penetration	Specification Revisions Affecting Future Market Penetration (Version/Tier Effective Date)
Audio/Video Products – Consumer	15,528	55%	
Audio Separates	13	1%	Version 3.0 - May 1, 2013
CD Players	0	0%	
DVD Players	14,717	66%	
Home Theater	532	23%	
Mini-systems	239	13%	
Audio/Video Products – Professional/Commercial – Amplifiers	27	N/A	
Battery Charging Systems	18,556	22%	Version 2.0 - TBD
Boilers	145	46%	
Residential Gas Boilers	82	42%	

¹ The approach and criteria for revising ENERGY STAR product specifications are documented in *Specification Development Guiding Principles*

(www.energystar.gov/ia/partners/prod_development/downloads/guiding_princip.pdf).

Detailed documentation for the rationale for revising specific products is available online by product category at www.energystar.gov/productdevelopment.

² Number of ENERGY STAR qualified shipments and market penetrations are provided for select, notable subcategories of products. The totals and market penetrations for each main product category may be comprised of additional subcategories.

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Residential Gas Furnaces 1,360 55% February 1, 2012	Furnaces	1,375	54%		
Residential Oil Furnaces 15 27%	Residential Gas Furnaces	1,360	55%		
	Residential Oil Furnaces	15	27%	. 55.66.7 1, 2012	

³ As percent of heat pump market.

Geothermal Heat Pumps	54	36%	Water-to-Air & Water-to-Water Version 3.0 Tier 3 - January 1, 2012
Imaging Equipment ⁴	30,833	93%	
Copiers	119	80%	
Digital Duplicators	6	N/A	
Fax Machines	212	6%	Version 2.0 - TBD
Mailing Machines	275	99%	
Multi-function Devices and Printers	29,141	100%	
Scanners	1,080	N/A	
Lamps ⁵	303,978	17%	Version 1.0 - TBD
Compact Fluorescent Lamps (CFL)	294,601	76%	
Integral LED Lamps	9,377	63%	
Light Commercial HVAC	247	33%	
Luminaires ⁶	19,119	10%	Version 1.1
Indoor	13,676	9%	Luminaires - April 1,
Outdoor	5,443	18%	2012
Refrigerators	5,008	56%	Version 5.0 - TBD
Roof Products	7 billion sq. ft.	34%	
Residential	2 billion sq. ft.	32%	Version 3.0 - TBD
Commercial	6 billion sq. ft.	34% ⁷	
Room Air Cleaners	797	30%	
Room Air Conditioners	4,724	62%	Version 3.0 - October 1, 2013
Set-top Boxes ⁸	18,941	62%	Version 4.1 – TBD (Version 3.0 – September 1, 2011)
Telephony	25,307	98%	Version 3.0 - TBD
Televisions	32,935	96%	
LCD	27,850	97%	Version 6.0 - June 1, 2013 (Version 5.3 - September 30, 2011)
LCD less than or equal to 23 inches	4,598	100%	
LCD 24-34 inches	11,423	90%	
LCD 35-39 inches	1,084	100%	
LCD 40-44 inches	4,992	89%	
LCD 45-49 inches	3,453	100%	
LCD 50-59 inches	2,042	83%	

 $^{^{4}}$ The total number of imaging equipment units shipped and corresponding market penetration do not include

mailing machines and digital duplicators.

This includes ENERGY STAR light bulbs as a percent of all light bulbs, including incandescent.

Shipments include solid state lighting luminaires.

Gallons were converted to square feet for the purpose of estimating market penetration.

Includes manufacturers' shipments to consumers and retailers, to ENERGY STAR service providers, and to non ENERGY STAR service providers for Version 3.0 only.

LCD greater than or equal to 60 inches	258	30%	
OLED	0	0%	
Plasma	3,605	93%	
Rear Projection	86	34%	
TV Combination Units	1,394	52%	
Vending Machines	77	31%	Version 3.0 - March 1, 2013
Ventilating Fans ⁹	1,347	41%	Version 1.1 (Luminaires) - April 1, 2012
Water Coolers	1,348	62%	Version 2.0 - TBD
Water Heaters	477	6%	
Gas Storage	107	3%	
Gas Tankless	337	N/A	Version 2.0 - TBD
Heat Pump	23	1%	
Solar	10	N/A	
Windows, Doors and Skylights	36,784	79%	
Windows	29,788	79%	Version 6.0 - TBD
Doors	6,447	80%	
Skylights	550	70%	

 ⁹ Market penetration for ventilating fans does not include in-line ventilating fans.
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