

EPEAT 101



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What is EPEAT[®]?

A Product Rating System

- EPEAT is a product-specific rating - not a company performance assessment
- A single manufacturer may have EPEAT Gold, Silver, Bronze and unrated products
- Purchasers' focus -- products that would help their own organization's environmental performance

What is EPEAT[®]?

Electronic Product Environmental Assessment Tool

➤ Guidance for Purchasers

An environmental procurement tool designed to help IT purchasers address environmental concerns in their purchasing process for desktop computers, laptops, integrated systems and monitors.

➤ Guidance for manufacturers

A system that provides clear and consistent performance criteria for the design of products and provides an opportunity for manufacturers to secure market recognition for efforts to reduce the environmental impacts of their products

Original EPEAT® Development

3-year multi-stakeholder process supported by US EPA to address difficulty with “green computer” sourcing

– Extensive engagement of:

- Environmental advocacy groups
- Manufacturers, Technical Experts, Recyclers
- Private and public purchasers

– Board of Advisors from all stakeholder groups

EPEAT® is developed and guided by *all stakeholders*



The EPEAT[®] System

- 1) IEEE 1680 family of American National Standards
 - 1680 umbrella standard – the rules of the game
 - 1680.1 environmental criteria for computers & displays
 - 1680.2 environmental criteria for imaging equipment (under development)
 - 1680.3 environmental criteria for TVs (under development)
 - Proposed standards - servers, mobile devices

- 2) System for identifying and verifying product claims
 - EPEAT Registry at www.epeat.net
 - Self-declaration with after-market verification

IEEE 1680.1 Environmental Criteria

Performance Category	Example	Required	Optional
Product-Specific Criteria			
Environmentally Sensitive Materials	RoHS & beyond	3	8
Material Selection	Recycled content	3	3
Design for End-of-life	Ease of recycling	6	5
Product Longevity/Lifecycle Extension	Warranties, spare parts	2	2
Energy Conservation	ENERGY STAR & beyond	1	3
Packaging	Recyclable, recycled content	3	4
Corporate Criteria			
End-of-life Management	Take-back and recycling	2	1
Corporate Performance	EMS, environmental policy, report	3	2
Overall Total Number of Criteria		23	28

EPEAT[®] Tiers



EPEAT Bronze
– Meets all 23 mandatory criteria






EPEAT Silver
– Meets all mandatory criteria
and at **least 50%** of the optional criteria



EPEAT Gold
– Meets all mandatory criteria and
at **least 75%** of the optional criteria

EPEAT® Registered Products

EPEAT Quick Search Tool
For Products Registered in

	 BRONZE	 SILVER	 GOLD	Totals
Desktops	<u>1</u>	<u>69</u>	<u>125</u>	<u>195</u>
Displays	0	<u>329</u>	<u>272</u>	<u>601</u>
Integrated Desktop Computers	0	<u>50</u>	<u>19</u>	<u>69</u>
Notebooks	<u>48</u>	<u>608</u>	<u>888</u>	<u>1544</u>
Tablets	0	0	0	0
Thin Clients	0	<u>21</u>	<u>3</u>	<u>24</u>
Workstation Desktops	0	0	<u>18</u>	<u>18</u>
Workstation Notebooks	0	<u>2</u>	<u>7</u>	<u>9</u>
Total:	<u>49</u>	<u>1079</u>	<u>1332</u>	<u>2460</u>

US registrations as of 05/26/2011. See www.epeat.net for current numbers.

EPEAT[®] Product Verification Process

Product declaration with ongoing independent verification:

- **Manufacturers:**

- Sign legal agreement to participate
- Register products as compliant
- Must have specific verification evidence for all criteria
- Undergo desk review for a number of products

- **Products routinely verified:**

- Random timing, no advance notice
- Conformance decided by independent panel
- Results published, complete transparency

For more information and Verification Round Reports, see

www.epeat.net/ProductVerification.aspx

Govt Purchasers Using EPEAT[®]

- **National Governments**

- USA Federal Acquisition Regulations Requirement (FAR Subpart 23.7) – 95% or higher EPEAT registered products
- Canadian Government, Governments of Australia, Scotland, New Zealand,
- Govt ministries in France, Poland, Singapore, UK

- **Cities** Culver City CA, Keene NH, King County WA, Leeds UK, Los Angeles County, Phoenix AZ, Portland OR, San Francisco, San Jose CA, Seattle WA, Torrance CA, Vancouver BC, County of Warwickshire UK

- **States/Provinces** California, Colorado, Illinois, Maine, Massachusetts, Michigan, Minnesota, New York, Ohio, Oregon, Pennsylvania, Washington, Wisconsin, Provinces of Nova Scotia, Ontario, Quebec, British Columbia, Warwickshire County (UK), Minas Gerais (Brazil), WSCA and US Communities contracting collaboratives

More purchaser information at www.epeat.net/RFP.aspx

US Government EPEAT[®] Commitment

US Federal Acquisition Regulations

...agencies must ensure that they meet at least 95 percent of their annual acquisition requirement for electronic products with Electronic Product Environmental Assessment Tool (EPEAT)-registered electronic products, unless there is no EPEAT standard for such products.

FAR 23.705



Private Purchasers using EPEAT

- **Private Sector:** BT, Deloitte, EA International, Fairmount Hotels, HDR, Kaiser Permanente, KPMG (USA), Marriott International, McKesson, Microsoft, Premier Inc, Tesco
- **Higher Ed:** Cornell, Michigan State, Penn State, Yale, University of California - element of AASHE STARS certification
- **School systems :** Madison (WI) , Alvarado (TX) , Judson (TX), West des Moines (IA) - part of Consortium on School Networking's Green IT certification
- **Health Care** – part of Green Guide for Health Care, Practice Greenhealth Awards requirements



NOTE: ENERGY STAR and EPEAT

- Products registered in EPEAT must meet the latest ENERGY STAR specification for their type
- Configuration changes can cause products to no longer comply with ENERGY STAR
- When changing basic configs or creating an image, consult with your supplier to ensure you do not void ENERGY STAR compliance



Model purchasing language

- All desktops, laptops, and computer monitors provided under this contract are required to have achieved Bronze registration or higher in the EPEAT system in [COUNTRY]. EPEAT is a procurement tool designed to help large volume purchasers evaluate, compare, and select electronic products based upon their environmental attributes as specified in the consensus-based IEEE Standard for the Environmental Assessment of Personal Computer Products (IEEE 1680.1).
- [Purchaser] will prefer products that have achieved EPEAT Silver or EPEAT Gold registration. The EPEAT registration criteria and a database of all registered products are provided at <http://www.epeat.net>.

Supplier EPEAT Reporting

- Suppliers are required to provide [quarterly/semiannual/annual] reporting on the number of EPEAT registered products purchased under this contract. For each piece of equipment sold, EPEAT Registration Status (i.e. Bronze, Silver, Gold or Unregistered) must be provided. The information must be reported in aggregate in a matrix providing the following data:

Product type	EPEAT Gold	EPEAT Silver	EPEAT Bronze	Unrated
Desktops				
Notebooks				
Integrated Systems				
Workstations				
Displays				
Thin client				

2009 Impact of Worldwide EPEAT Purchasing

Over 80 million EPEAT registered products purchased in 40 countries

	Reduction	Equivalent
Electricity	10.9 million Megawatt hours	Annual electricity consumption of 913,459 average US households
Primary Materials	19 million Metric Tons	Weight of 148,020,197 refrigerators
Air Emissions (incl GHG)	44 billion kg	44 million metric tons
Greenhouse Gas Emissions	2 million MTCE	1.37 million average US cars removed from road for a year
Water Emissions	93 million kg	93,482 metric tons
Toxic Materials (incl Hg)	1538 Metric Tons	768,734 bricks, Hg equiv 371,876 fever thermometers
Solid waste	17,978 Metric Tons	Annual SW of 14,615 US households
Hazardous Waste	42,731 Metric Tons	35.9 million bricks
First Year cost savings to	\$15.4 million	

EPEAT® Expansion

- Development of related IEEE standards
 - Printers/Imaging devices (2012)
 - TVs (2012)
 - Servers (Launching 2011)
 - Mobile devices – cell phones, PDAs
- Update of computer standard (Launching 2011)
- Internationalization
 - Country-specific registry launched 08/10/2009
 - Covers 41 regions – EU, EFTA, Australia, New Zealand, Japan, China, Singapore, Taiwan, Brazil, Mexico

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