



Greening Procurement: The State Electronics Challenge

April 15, 2010



Presentation Outline

- **SEC Program Requirements**
- **Overview of Electronic Product Environmental Assessment Tool (EPEAT®)**
- **How you can use EPEAT?**
- **Resources**



Procurement Requirements

- Modify procurement practices to require/give preference to “green” computers – defined by EPEAT standard
- Establish & promote policy, directive, memorandum, &/or guidance requiring, or giving preference to, procurement of EPEAT registered products
- Ensure 95% of desktops, laptops, monitors EPEAT registered



What is EPEAT?



Overview of EPEAT

- Voluntary environmental performance standard for computer desktops, monitors, & notebooks
 - Addresses multiple environmental attributes
 - Three-tier rating system: bronze, silver, & gold
- System for identifying products
 - Searchable product registry
 - Over 1,200 products & 30 manufacturers
- Verification process to ensure conformance



EPEAT Performance Categories

Total: 23 required & 28 optional criteria

- Reduction of Toxic Constituents
- Materials Selection
- Product Longevity/Lifecycle Extension
- Design for End-of-Life
- Energy Conservation
- End-of-Life Management
- Corporate Performance
- Packaging



Three Performance Designations



Bronze – Meets the 23 required criteria



Silver – Meets 23 required criteria
& at least 14 optional criteria






Gold – Meets 23 required criteria
& at least 21 optional criteria



EPEAT Quick Search Tool

For Products Registered in 

	 BRONZE	 SILVER	 GOLD	Totals
Desktops	<u>1</u>	<u>52</u>	<u>81</u>	<u>134</u>
Displays	<u>1</u>	<u>139</u>	<u>105</u>	<u>245</u>
Integrated Desktop Computers	0	<u>36</u>	<u>11</u>	<u>47</u>
Notebooks	<u>36</u>	<u>554</u>	<u>453</u>	<u>1043</u>
Thin Clients	0	<u>9</u>	0	<u>9</u>
Workstation Desktops	<u>1</u>	<u>1</u>	<u>12</u>	<u>14</u>
Workstation Notebooks	0	<u>1</u>	<u>6</u>	<u>7</u>
Total:	<u>39</u>	<u>792</u>	<u>668</u>	<u>1499</u>

As of 4/13/10. See www.epeat.net for current list.



Search Results

36 Search Results Found

You searched for:


Product Status: Active
Country: United States
Product Type: Notebooks
Rating: Bronze

Options

- [Export Product Info to EXCEL](#)
- [Export Product and Criteria Info to EXCEL](#)
-  [Search Again](#)

NOTE: Please use the Search Again button above to return to the starting point of your search. Using the Back button may cause system errors and is not recommended.

Compare Products

Compare	Product	Country	Product Category	Rating	Opt. Pts	Energy Star Version	Monitor Type	Monitor Size	Registration Date	Status	Exceptions
<input type="checkbox"/>	Gammatech R13S	United States	Notebooks	Bronze	13	5.0	Flat Panel	13.3 W	4/9/2010	Active	
<input type="checkbox"/>	Transource RoadRunner NB-M15A	United States	Notebooks	Bronze	13	5.0	Flat Panel	15.4 W	7/21/2009	Active	
<input type="checkbox"/>	HowGreen 1638	United States	Notebooks	Bronze	12	5.0	Flat Panel	15.4 W	3/18/2010	Active	
<input type="checkbox"/>	DELL Inspiron 1545	United States	Notebooks	Bronze	8	5.0	Flat Panel	15.6 in W	3/30/2009	Active	
<input type="checkbox"/>	DELL Vostro 1320	United States	Notebooks	Bronze	8	5.0	Flat Panel	13.3 in	4/1/2009	Active	
	DELL						Flat				



Sample of Participating Computer/Monitor Manufacturers (total 33)

- Acer
- Apple
- Dell
- Fujitsu
- Hewlett Packard
- Hyundai IT America
- Lenovo
- LG Electronics
- NEC Display Solutions
- Panasonic
- Philips Electronics
- Samsung
- Sony Electronics
- Toshiba
- Transource
- Viewsonic

As if March 30, 2010. See www.epeat.net/Companies.aspx for current list.



Environmental Performance Criteria

Reduction of Toxics

Required

- Comply with European RoHS Directive—restricts cadmium, mercury, lead, hexavalent chromium, & selected brominated flame retardants
- Report amount of mercury used in light sources

Optional

- Eliminate intentionally added mercury for light sources
- Provide batteries free of lead, cadmium, & mercury
- Eliminate PVC in large plastic parts



Environmental Performance Criteria

Materials Selection

Required

- Declare post-consumer recycled plastic content
- Declare renewable/bio-based plastic materials
- Declare product weight

Optional

- 10% minimum post-consumer recycled plastic
- 25% minimum post-consumer recycled plastic
- 10% minimum renewable/bio-based plastic material



Environmental Performance Criteria

Energy

Required

- ENERGY STAR compliant

Optional

- Renewable energy accessory



Environmental Performance Criteria

Design for End-of-Life

Required

- Easy to identify & remove components with hazardous materials
- Eliminate paints & coatings that are incompatible with recycling
- Design external case to be easily disassembled
- Identify all plastic components.

Optional

- Reduce number of plastic types
- Design products to make it easy to separate plastic types
- Eliminate molded/glued metal
- Ensure at least 65% of product is recyclable or reusable
- Ensure at least 90% of product is recyclable or reusable



Verification Process

- Manufacturer self declares to standard
- Products verified after registered
- Products are randomly selected for testing
- Conformance decided by independent panel
- Results published



How You Can Use EPEAT?



How You Can Use EPEAT ?

- Put EPEAT registration requirements into RFPs, RFIs, RFQs, & contracts
- Use online EPEAT database at www.epeat.net



Suggested RFP/Contract Language

- All desktops, laptops, & computer monitors provided under this contract are required to have achieved Bronze registration or higher in the EPEAT system.
- [Purchaser] will prefer products that have achieved EPEAT Silver or EPEAT Gold registration.
- Suppliers are required to block non-EPEAT registered products on their electronic catalogs or Web portals that customers may buy from through this contract.
- 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.



Green Electronics Made Easy

Google™ Site Search

Search

[Subscriber/Partner Login](#)

SEARCH THE REGISTRY

4/13/2010 4:24:52 AM

DETAILS

[EPEAT Criteria](#)

[International Registration](#)

[Participating Manufacturers](#)

[Purchasers/RFPs Using EPEAT](#)

[Environmental Benefits](#)

[Product Verification](#)

RESOURCES

[Purchasers](#)

[Manufacturers](#)

[Resellers](#)

[Individual](#)

Welcome to EPEAT®

EPEAT is a system that helps purchasers evaluate, compare and select electronic products based on their environmental attributes. The system currently covers desktop and laptop computers, thin clients, workstations and computer monitors.

Desktops, laptops and monitors that meet 23 required environmental performance criteria may be registered in EPEAT by their manufacturers in 40 countries worldwide. Registered products are rated Gold, Silver or Bronze depending on the percentage of 28 optional criteria they meet above the baseline criteria. EPEAT operates an ongoing verification program to assure the credibility of the registry.

To view and select EPEAT registered products available in your location, please use the country search functions on this page, the Search page and the Manufacturers page. Use the left menu bar for detailed information about the EPEAT system, and the top menu to learn more about participating in EPEAT.

As always, we welcome your thoughts and feedback on the registry. Please be sure to check back often, as we will be continuing to expand EPEAT in the weeks and months ahead.

[New: Revised Verification Protocols released for comment](#)

[Verification Round 2010-1 Launched on 1/15/2009](#)

EPEAT Partners



More information on

[EPEAT's Partner Programs](#)



Search Product Registry

DETAILS

- EPEAT Criteria
- International Registration
- Participating Manufacturers
- Purchasers/RFPs Using EPEAT
- Environmental Benefits
- Product Verification

RESOURCES

- Purchasers
- Manufacturers
- Resellers
- Individual Consumers
- Small Business

BACKGROUND

- EPEAT Background
- EPEAT and Energy Star
- Reference Documents and Links

Product Search

Product Type:

All Product Types Desktops
 Displays Integrated Desktop Computers
 Notebooks Thin Clients
 Workstation Desktops Workstation Notebooks

Product:

Manufacturer:
To select more than one manufacturer, hold down the "Ctrl" key and click the manufacturer names
 Ace Computers
 Acer Inc.
 Action S.A.

Country:
To select more than one country, hold down the "Ctrl" key and click the country names
 United States
 Australia
 Austria

Rating:

Bronze
 Silver
 Gold
 All Ratings

Product Status:

Active Products Only
 Active and Archived Products
 Archived Products Only

[Search by Optional Criteria](#)



Product Registry Results

Search Results

14 Search Results Found

You searched for:

Product Status: Active
Country: United States
Product Type: Notebooks
Rating: Gold
Manufacturer: Dell, Inc.

Options

- [Export Product Info to EXCEL](#)
- [Export Product and Criteria Info to EXCEL](#)
-  [Search Again](#)

NOTE: Please use the Search Again button above to return to the starting point of your search. Using the Back button may cause system errors and is not recommended.

[Compare Products](#)

Compare	Product	Country	Product Category	Rating	Opt. Pts	Energy Star Version	Monitor Type	Monitor Size	Registration Date	Status	Exceptions
<input type="checkbox"/>	DELL Latitude E6400 LED Display	United States	Notebooks	Gold	21	5.0	Flat Panel	14.1 in	8/12/2008	Active	
<input type="checkbox"/>	DELL Latitude E6400 ATG	United States	Notebooks	Gold	21	5.0	Flat Panel	14.1 in	8/20/2008	Active	
<input type="checkbox"/>	DELL Latitude E6500 LED Display	United States	Notebooks	Gold	21	5.0	Flat Panel	15.4 in	8/12/2008	Active	
	DELL						Flat				



Product Registry Details

DELL Latitude E6400 LED Display

Product: DELL Latitude E6400 LED Display
 Country: United States
 Product Type: Notebooks
 Manufacturer: Dell, Inc.
 URL: <http://www.dell.com>
 Rating: **EPEAT GOLD**[®]
 Registration Date: 8/12/2008
 Monitor Type: Flat Panel
 Monitor Size: 14.1 in
 Product Status: ■ Active
 Exceptions:

Options

-  [Printer-friendly](#)
-  [Export to CSV](#)
-  [Export to EXCEL](#)

This product is also actively registered in the following countries:
[Canada](#)

IEEE 1680-2006 Criteria Category Summary	Optional Points
4.1 Reduction/elimination of environmentally sensitive materials	8/8
4.2 Materials selection	0/3
4.3 Design for end of life	5/5
4.4 Product longevity/life cycle extension	2/2
4.5 Energy conservation	1/2
Corporate Annual Report Points	
4.6 End of life management	1/1
4.7 Corporate performance	2/2
4.8 Packaging	2/4
Total Optional Points:	21/27

[Back](#)



Product Registry Details

IEEE 1680-2006 EPEAT Criteria Information

Reduction/elimination of environmentally sensitive materials

Latitude E6400 LED Display

Meets Criterion	Required/Optional Criterion	Criterion	*Declared Value
YES	Required	4.1.1.1 Compliance with provisions of European RoHS Directive upon its effective date	
YES	Optional	4.1.2.1 Elimination of intentionally added cadmium	
YES	Required	4.1.3.1 Reporting on amount of mercury used in light sources (mg)	Lamp #1: 0 mg
YES	Optional	4.1.3.2 Low threshold for amount of mercury used in light sources	
YES	Optional	4.1.3.3 Elimination of intentionally added mercury used in light sources	
YES	Optional	4.1.4.1 Elimination of intentionally added lead in certain applications	
YES	Optional	4.1.5.1 Elimination of intentionally added hexavalent chromium	
YES	Required	4.1.6.1 Elimination of intentionally added SCCP flame retardants and plasticizers in certain applications	
YES	Optional	4.1.6.2 Large plastic parts free of certain flame retardants classified under European Council Directive 67/548/EEC	
YES	Optional	4.1.7.1 Batteries free of lead, cadmium and mercury	
YES	Optional	4.1.8.1 Large plastic parts free of PVC	

[Back to Product Detail](#)

*For some criteria, manufacturers must declare values to meet the criterion and for others the manufacturer may declare values voluntarily.



Recommended Actions

- **Today**

- Tell suppliers about plans to buy/lease EPEAT equipment
- Look for ways to include preference for EPEAT in current contract
- Encourage individual purchasers to pick EPEAT equipment
- Ask contractors for reporting on EPEAT product sales/leases



- **Next contract**

Use recommended contract language



Calculate the Environmental Benefits

For every 1,000 “green” computer systems purchased & discarded units recycled:

- ↓ Energy use by 1.3 million kWh
= electricity to power 106 households/year
- ↓ Greenhouse gas emissions by 146 MTCE
= removing 114 passenger cars from road/year



Environmental Benefits (cont.)

- ↓ Municipal solid wastes by 36.1 metric tons
= waste generated by 18 households/year
- ↓ Hazardous waste by 17 metric tons
- ↓ Toxic materials, including lead & mercury by 164 pounds



Resources for Implementing Program Requirements



SEC Website Resources

<http://stateelectronicschallenge.net/procurement.html>

- [Acquisition & Procurement Planning Checklist](#)
- [EPA Region 8 SOP For IT Asset Management](#)
- [Sample Contract Language](#)
- [Electronics Environmental Benefits Calculator](#)
- [EPA Region 8 SOP for Purchasing EPEAT & Environmentally Preferable IT Products](#)
- [Greening Your Purchase of Copiers](#)
- [Integrating Environmental Attributes into Leasing](#)
- [Total Cost of Ownership Modeling](#)



Who's Using EPEAT

- **National Governments**
 - US Federal Govt. (approx \$65 billion in contracts) & in Federal Acquisition Regulations (FAR Subpart 23.7)
 - Canadian Federal Government Master Agreement
 - New Zealand Environmental Ministry
 - Govt. of Thailand,
 - Govt. of Singapore
- **States/Provinces**
 - California,
 - Maine,
 - Massachusetts,
 - Minnesota,
 - New York,
 - Oregon,
 - Pennsylvania,
 - Washington,
 - Wisconsin,
 - Nova Scotia, Ontario, Quebec
- **Cities/Counties**
 - San Francisco
 - San Jose
 - LA County
 - Phoenix
 - Seattle
 - Portland, OR;
 - Providence, RI
 - Keene, NH
- **Higher Ed**
 - Cornell, Harvard, Penn State, Yale, University of California system
- **Private Sector**
 - Kaiser Permanente, HSBC, Premier Inc., McKesson, Marriott International, Deloitte, Tesco
- **Retailers**
 - Office Depot/Tech Depot

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