

# **EPEAT and Promoting EPP for Electronics**

*“the federal government can and should lead by example when it comes to creating innovative ways to reduce greenhouse gas emissions, increase energy efficiency, conserve water, reduce waste, and use environmentally responsible products and technologies”.*

*- President Obama, October 2009*

**John Katz  
Office of Pollution Prevention and Solid Waste  
US Environmental Protection Agency, Region 9**



# What I'll Cover Today

- Introduction to EPEAT – Past, Present and Future
- Guidance on Procuring Environmentally Preferable Electronics

# What is EPEAT?



- Set of voluntary performance criteria that define required and optional environmental attributes for electronic products
- System for listing products that meet the performance criteria
- Method for verifying that listed products have achieved specified performance criteria

# What Products Covered?



## Currently:

**Computer Desktops, Laptops, and Monitors**

**Imaging equipment: (Printers, Copiers, Multi-Function Devices, Scanners, Fax Machines,**

**Digital Duplicators, Mailing Machines)**

**Televisions**

**Servers**

**Mobile devices**

**Up next:**



# New EPEAT Products



- Imaging Equipment
  - Printers
  - Copiers
  - Scanners
  - Facsimile Machines
  - Multifunction devices
  - Digital duplicators
  - Mailing machines
- Televisions (TVs)
  - Any display sold primarily as a “television” (size 15 inches and up)
  - Includes CRT, LCD, LED, and plasma televisions

*\* Product coverage is harmonized with ENERGY STAR® categories*

# Why Greener?



- Products must meet several required criteria for:
  - Energy Conservation (Energy Star, FEMP)
  - Environmentally Sensitive Materials
  - Materials Selection
  - Design for End of Life
  - Product Longevity/Life Cycle Extension
  - Packaging
  - Corporate Performance
  - End of Life Management
  - IE Products – Consumables, Indoor Air Quality
- Products can also meet more stringent optional criteria in each of these categories

# Standards Development



- Developed through ANSI accredited Standard Development Organizations
- Open, consensus based process used
- Active participation from manufacturers, suppliers, recyclers, academics, government representatives, purchasers, and environmental advocacy organizations



# 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



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# EPEAT REGISTRY SEARCH OPTIONS

## Quick Search

Select a Device Category

Select a Country

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U.S. Environmental Protection Agency



# EPEAT REGISTRY SEARCH OPTIONS

## Quick Search

Computers & Displays

Brazil

Search by Manufacturer/Country

Full Search

	 BRONZE	 SILVER	 GOLD	Total
Desktops	0	5	167	172
Displays	0	12	29	41
Notebooks	2	172	75	249
Integrated Desktop Computers	0	36	10	46
Workstation Desktops	0	0	17	17
Thin Clients	0	7	5	12
Tablet Notebooks	0	0	0	0
<b>Totals</b>	<b>2</b>	<b>232</b>	<b>303</b>	<b>537</b>

# Used Globally by Purchasers

- **National Governments** US, Canada, Australia, France, Poland, New Zealand, Singapore, Brazil, Costa Rica (Scotland)
- **States/Provinces** CA, CO, MA, ME, MI, MN, NY, OH, OR, PA, VT, WA, WI; Provinces of BC, NS, ON, QU; Warwickshire County (UK), Minas Gerais (Brazil), WSCA and US Communities collaboratives
- **Cities** San Francisco, Phoenix, San Jose, Vancouver, Seattle, Portland OR, LA County, Culver City CA, Keene NH, Leeds, UK
- **Enterprise** Catholic Healthcare West, Charles Schwab, Deutsche Bank, Fairmount Hotels, Ford Motor Company, HDR, HSBC, Kaiser Permanente, KPMG, Marriott, McKesson, Microsoft, NBC-Universal, Nike, Saint Gobain, Societe Generale
- **Colleges/Universities** Of 300+ universities and colleges surveyed, 190 used EPEAT in their electronics purchasing decisions; of those, 70 purchased exclusively EPEAT-registered products.

# EPEAT Estimated Environmental Benefits – Worldwide, 2011

<b>Metric</b>	<b>Reduction</b>	<b>Equivalents</b>
<b>Electricity</b>	12 million megawatt hours	Annual electricity use of 963,716 average US households
<b>Primary Materials</b>	4.4 million metric tons	The weight of 14 Empire State Buildings
<b>Air Emissions (incl. GHG)</b>	9 million metric tons	
<b>Greenhouse Gas Emissions</b>	2.2 million MTCE*	Taking 1.6 million average US passenger cars off the road for a year
<b>Water Emissions</b>	16,000 metric tons	
<b>Toxic Materials (incl Hg)</b>	1,381 metric tons	Weight of 266 elephants, including Hg to fill 1,007,761 fever thermometers
<b>Solid Waste</b>	50,976 metric tons	76,262 US households' annual solid waste
<b>Hazardous Waste</b>	74,082 metric tons	The weight of 7 Eiffel Towers



# **EPA Involvement in EPEAT – Drivers, Roles, and Partners**

# Drivers for EPA Engagement



- Helps us meet our mandates in EO13514 and National Strategy to help feds ID and procure greener electronic products
- Gives us innovative tool to meet many Agency objectives
  - Reduce toxic and hazardous chemicals in products
  - Increase environmentally responsible recycling
  - Reduce climate change
  - Incentivize critical mineral recycling
  - Reduce overall environmental impact of products
- Provides impressive quantifiable documented results
- Leverages federal pocketbook to green global IT marketplace
- Offers a way to do all this very cheaply

# EPA Role in EPEAT



- Provided seed funding to the Green Electronics Council
- Provide funding to facilitate development of the IEEE standards (50% paid for by industry)
- Solicit and coordinate EPA technical input in standard development processes
- Volunteer to manage standard development working groups, sponsor committees as needed
- Participate on the EPEAT Advisory Council
- Provide technical assistance to feds to meet requirement to procure EPEAT registered products
- Manage Electronics Environmental Benefits Calculator
- Act as Federal “lead” on federal government engagement with EPEAT

# The EPP Program - Impetus



- Impetus: Harnesses U.S. government's \$535 billion annual purchasing power
  - Reduces the U.S. footprint around the world
  - Expands markets for greener products and services
  - Promotes innovation

# The EPP Program - Mandates



- The Pollution Prevention Act [42 U.S.C.A. §13103(b)(11)]
  - Requires EPA to “Identify opportunities to use Federal procurement to encourage source reduction.”
- Executive Orders going back to 1993 – most recently reaffirmed via Obama’s EO 13514
  - Requires *95% of new public procurement actions* to include green attributes
  - Requires EPA to help federal agencies buy environmentally preferable products and services
  - Takes a multi-attribute, lifecycle based approach to defining “environmentally preferable purchasing”



# Federal Green Purchasing Requirements for Electronics

- Federal Acquisition Regulation (FAR) Part 23
  - Requires acquisition of “environmentally preferable” products and services (e.g. EPEAT), ENERGY STAR, and FEMP
- Executive Order 13514
  - Requires “sustainable acquisition” including EPEAT, ENERGY STAR and FEMP
- Executive Order 13221
  - Requires acquisition of electronics with low standby power
- Energy Policy Act 2005, Energy Independence and Security Act 2007
  - Requires acquisition of ENERGY STAR and FEMP



# Resources and Contact Information

- EPA Staff lead on Our Engagement with EPEAT
  - John Katz ([katz.john@epa.gov](mailto:katz.john@epa.gov)) or Holly Elwood ([elwood.holly@epa.gov](mailto:elwood.holly@epa.gov))
- EPA website on EPEAT: [www.epa.gov/epeat](http://www.epa.gov/epeat)
- EO13514:  
[www.whitehouse.gov/assets/documents/2009fedleader\\_eo\\_rel.pdf](http://www.whitehouse.gov/assets/documents/2009fedleader_eo_rel.pdf)
- FAR Part 23.7:  
[www.acquisition.gov/Far/current/html/Subpart%2023\\_7.html#wp1086546](http://www.acquisition.gov/Far/current/html/Subpart%2023_7.html#wp1086546)
- NTTAA and OMB Circular A 119:  
<https://standards.gov/nttaa/agency/index.cfm?fuseaction=home.main>
- Federal Electronics Challenge: [www.epa.gov/fec](http://www.epa.gov/fec)