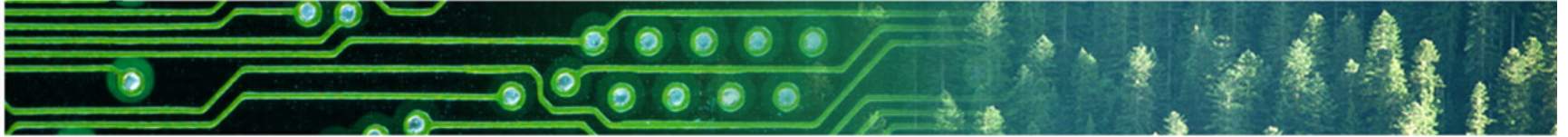


Greening Electronics Procurement with EPEAT™



Sarah O'Brien
Green Electronics Council

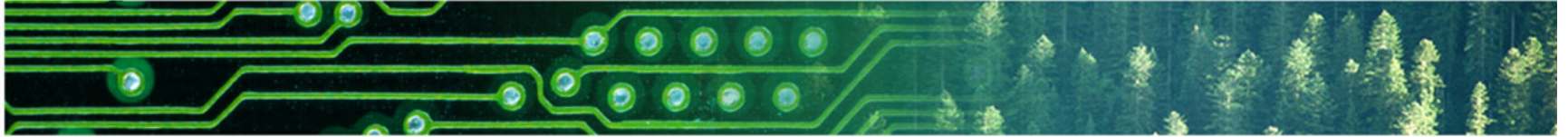


What is EPEAT™?

Electronic Product Environmental Assessment Tool

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





Why PCs?

ICT's Use-Phase Global Carbon Dioxide Emissions

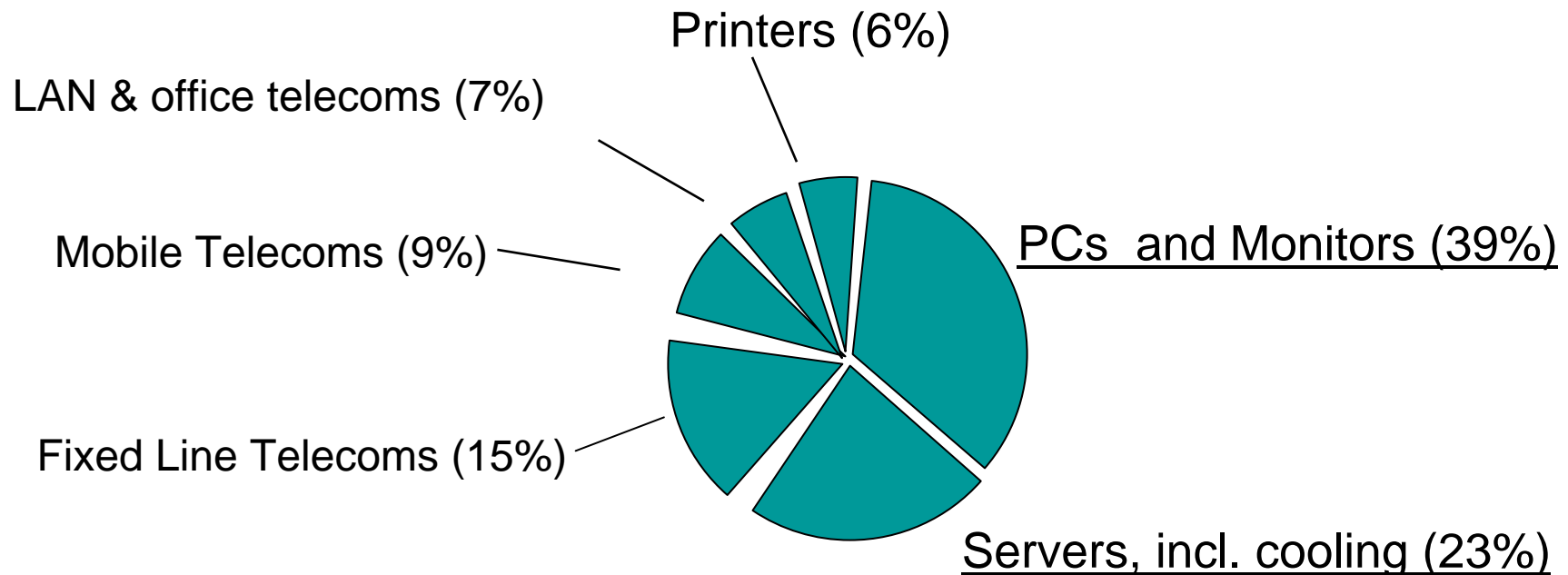
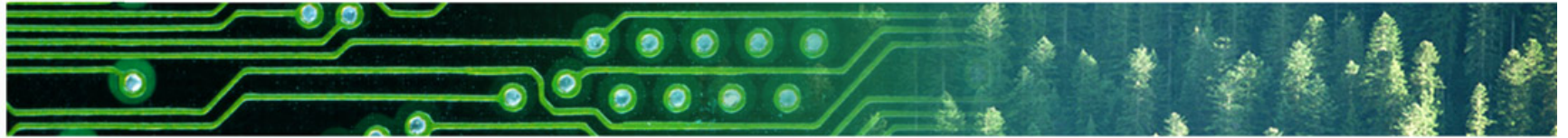
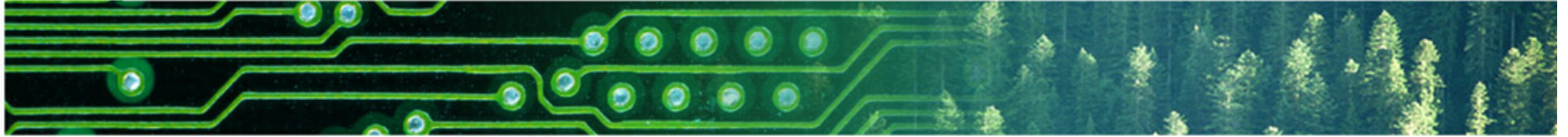


Chart based on research and presentations by Gartner, 2007-2008. Thanks to Simon Mingay.



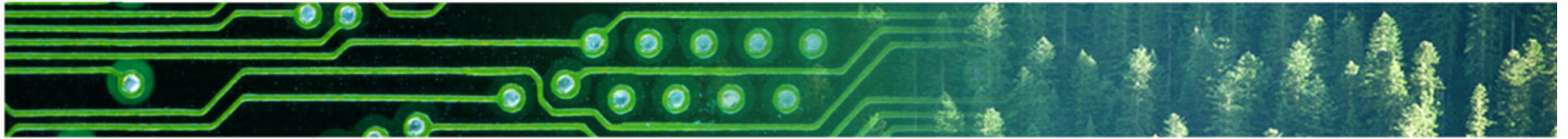
EPEAT™ Development

- ▶ Developed in a 3-year multi-stakeholder process
 - ▶ Extensive engagement of: Private/public purchasers, Manufacturers, Environmental advocates, Recyclers, Technology researchers
 - ▶ Consensus achieved on environmental criteria and the EPEAT™ system
 - ▶ Stakeholder Board of Advisors
 - ▶ EPEAT™ is developed and guided by *all stakeholders together*
-



The EPEAT™ System

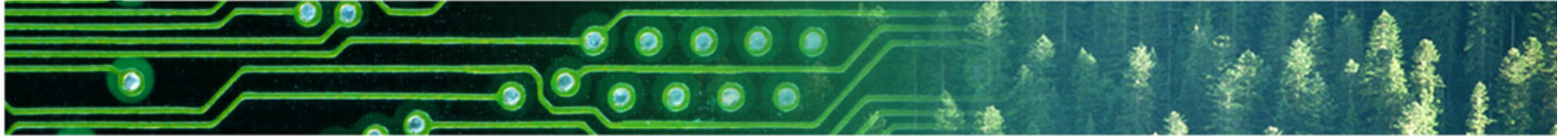
- ▶ Standard -- IEEE Standard 1680 for the Environmental Assessment of Personal Computer Products)
 - ▶ System for identifying, registering and verifying products that meet these criteria (see www.epeat.net)
 - ▶ Environmental Benefits Calculator
-



EPEAT™ Environmental Performance Categories

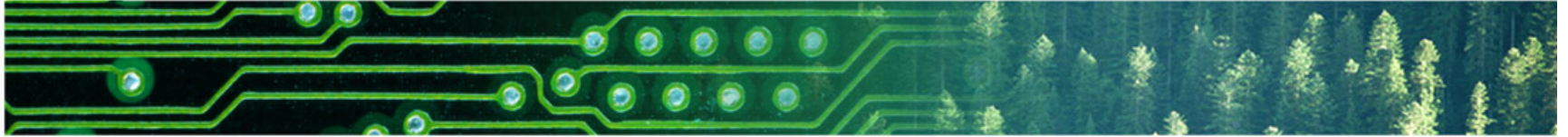
- ▶ Environmentally Sensitive Materials
- ▶ Materials Selection
- ▶ Design for End of Life
- ▶ Product Longevity/Life Cycle Extension
- ▶ Energy Conservation
- ▶ End of Life Management
- ▶ Corporate Performance
- ▶ Packaging

All categories contain Required and Optional criteria



Key Mandatory Criteria

- Current ENERGY STAR standard
 - RoHS compliance
 - OEM takeback and recycling (available)
 - Min. 65% recyclable/reusable
 - Upgradeable with common tools
 - Extended warranty available
 - Elimination of toxics in packaging
 - Company EMS and reporting
 - Full list www.epeat.net/Criteria.aspx
-



EPEAT™ Tiers



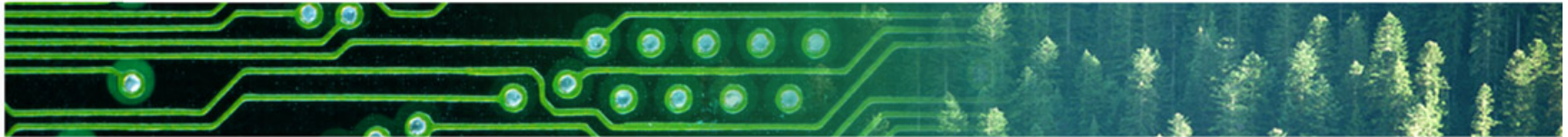
EPEAT Bronze— Meets all 23 required criteria






EPEAT Silver— All required criteria and at least 50% optional criteria



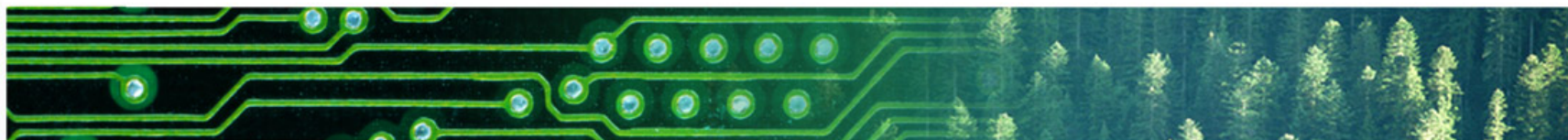
EPEAT Gold— All required criteria and at least 75% optional criteria



EPEAT Registered Products

EPEAT Registered Products Search Tool				
Product	 BRONZE	 SILVER	 GOLD	Total
Desktops	<u>5</u>	<u>52</u>	<u>59</u>	<u>116</u>
Integrated Systems	0	<u>21</u>	0	<u>21</u>
Monitors	<u>19</u>	<u>332</u>	<u>27</u>	<u>378</u>
Notebooks	0	<u>287</u>	<u>27</u>	<u>314</u>
Totals	24	692	113	829

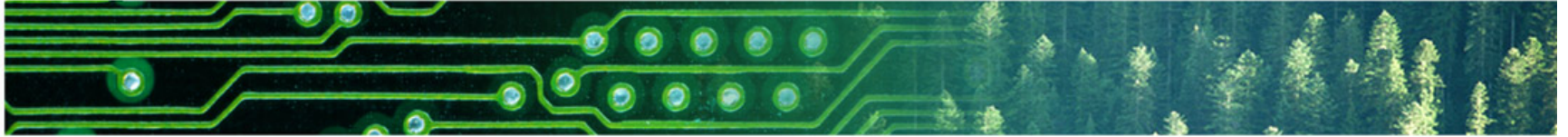
As of 09/15/2008. See www.epeat.net for current list.



Participating Manufacturers

- Apple
- Arquimedes Automacao
- CIARA-TECH
- CTL
- Dell
- Enano Computers
- Fujitsu
- Fujitsu-Siemens
- GETAC
- Hewlett Packard
- Hyundai IT America
- Lenovo
- LG Electronics
- MDG Computers
- MPC Computers
- NCS Technologies
- NEC Display
- Northern Micro
- Panasonic
- Philips Electronics
- Prosys Tech
- Samsung
- Sony Electronics
- Toshiba
- Transource
- Viewsonic
- Zonbu

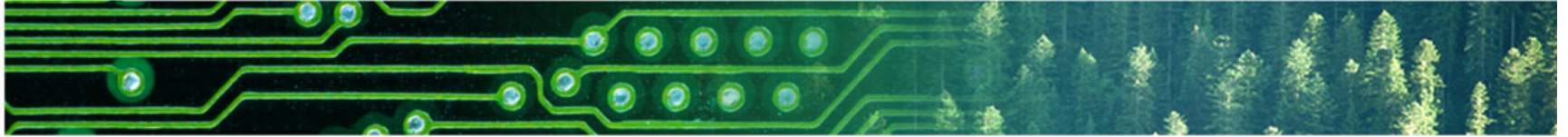
As of 06/01/2008 See www.epeat.net for current list.



Purchasers Using EPEAT

Government

- ▶ **US Federal Government** Federal Acquisition Regulations purchasing requirement (approx \$45 billion EPEAT purchasing).
 - ▶ **Canadian Government** Master Agreement
 - ▶ **New Zealand** Environmental Ministry
 - ▶ **Cities** San Francisco, Phoenix, San Jose, Vancouver, BC, Seattle, Portland, OR, Los Angeles County
 - ▶ **States/Provinces** including: New York, Oregon, Washington, Wisconsin, Massachusetts, Maine, Minnesota, California, Nova Scotia, Ontario Lottery
-



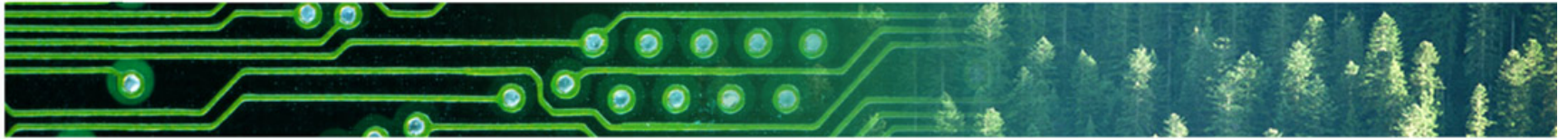
Private Sector Purchasers Using EPEAT™

Enterprise:

- **Kaiser Permanente** – largest US nonprofit healthcare org.
- **Marriott International** – hospitality leader
- **Premier Inc** – health care purchasing group
- **McKesson** – Fortune 500 health services company
- **Deloitte** – international consulting firm
- Financial services and banking

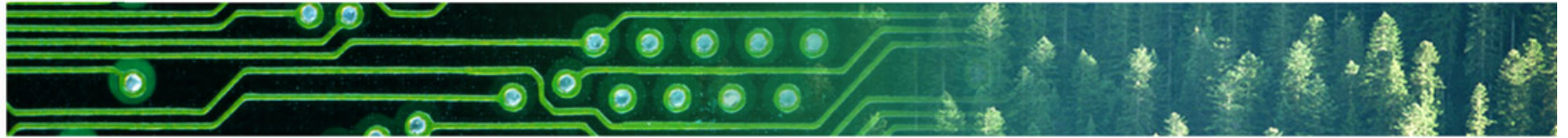
Higher Education:

- **Yale University**
 - **Cornell University**
 - **University of California** system
-



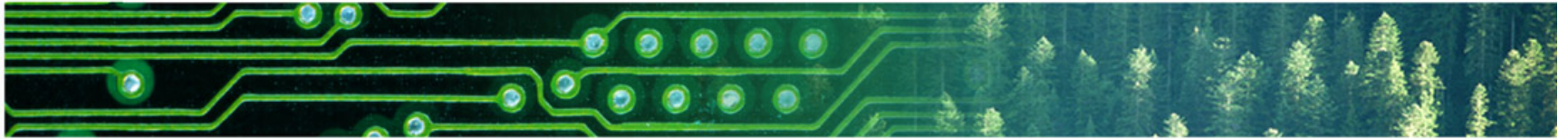
How Can I Use EPEAT™?

- ▶ Existing contract: Ask current supplier(s) to provide a list of EPEAT-registered products available on contract
 - ▶ New contracts: Include EPEAT language in RFP/RFQs
 - ▶ Policy establishing preference/requiring EPEAT products
 - ▶ Require supplier to identify all EPEAT-registered products in catalog/web ordering portals
 - ▶ Communicate about EPEAT to end users
 - ▶ Require vendor reporting on sales by product and tier (for calculation of benefits)
 - ▶ Require EPEAT-registered products in standardization
-



Electronics Environmental Benefits Calculator

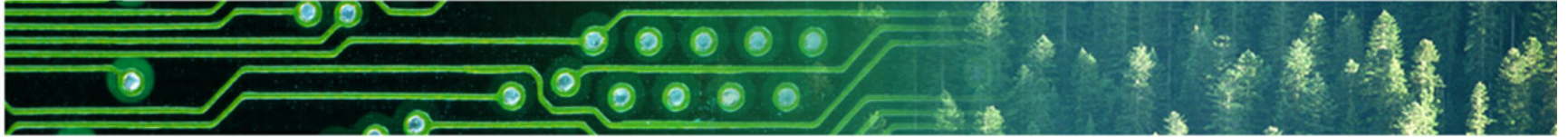
- ▶ Developed by the University of Tennessee Clean Products/Clean Technologies Center
 - ▶ Measures benefit of specific purchases (by amounts purchased and registration levels) compared with conventional models
 - Energy savings
 - Greenhouse gas reduction
 - Solid waste reduction
 - Primary material savings
 - Hazardous waste reduction
 - Toxic material reduction
 - Air emissions
 - Water emissions
 - ▶ <http://eerc.ra.utk.edu/ccpct/eebc/eebc.html>
-



2007 EPEAT Purchase Benefits

- ↓ 75.5 million metric tons primary materials = 585 million refrigerators
- ↓ 42.2 billion kWh of electricity = 3.7 million U.S. homes for a year
- ↓ 3.31 million metric tons of carbon equivalent (MTCE) = removing over 2.6 million U.S. cars from the road for a year
- ↓ 3,220 metric tons toxic materials, including 482,381 household fever thermometers
- ↓ 124,000 metric tons of hazardous waste

Compared with conventional products. See <http://www.epeat.net/FastBenefits.aspx>.



Contact

Sarah O'Brien
Outreach Director
Green Electronics Council
802.479.0317
sarah.obrien@greenelectronicscouncil.org

www.epeat.net