EPEAT® Overview

Sarah O'Brien
Green Electronics Council

EPEAT® BASICS

EPEAT® Development

- Initiated to address purchaser difficulty with "greener computer" definitions, sourcing

- Draft standard developed in 3-year multi-stakeholder consensus process supported by US EPA

- Balloted for adoption by Institute of Electrical and Electronic Engineers (IEEE)

- Consensus achieved on environmental criteria and the EPEAT system

- System launched July 2006

Stakeholder Involvement

- Extensive engagement of environmental advocates, manufacturers, private and public purchasers, technical experts, recyclers throughout standards development

- Developed with attention to both environmental impacts and market mechanisms

- Managed with guidance of Board of Advisors from all stakeholder groups

EPEAT was developed and is guided by *all stakeholders*

The Current EPEAT® System

1. IEEE Standard 1680 for the Environmental Assessment of Personal Computer Products - comprised of 51 environmental performance criteria

2. System for identifying and verifying products which meet these criteria

3. Environmental Benefits Calculator to assess (or project) benefits from purchasing EPEAT

IEEE Standard Expansion

- IEEE Standard Development Workgroups underway for **Imaging Equipment** (printers, faxes) and **Televisions –** registries to launch ~ late 2010

- **Server** standards development will begin development over next year

- **Mobile devices** (cell phones, smartphones) in two years or more

- Current **computer standard** opens for update late 2009

- All standards development open to all interested stakeholders

EPEAT® International Expansion

- Interest and use around the world

- Expanded country specific registry launched in August 2009

- 40 countries/regions total – EU and EFTA, Japan, China, Taiwan, Australia, New Zealand, Mexico and Brazil

- Country addition process under development

- Eventual global reach

EPEAT® Computer Criteria 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

23 required and 28 optional criteria

EPEAT® / IEEE 1680 Tiers
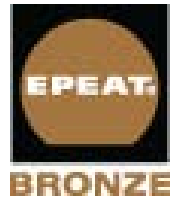
EPEAT Bronze
- – Meets all required criteria

EPEAT Silver
- – Meets all required criteria and at **least 50%** of optional criteria

EPEAT Gold
- – Meets all required criteria and at **least 75%** of optional criteria

Key Required Criteria - Computer

- Current ENERGY STAR standard
- OEM product takeback and recycling*
- Min. 65% recyclable/reusable
- Extended warranty available
- Elimination of toxics in packaging
- Company EMS and reporting
- Battery takeback and recycling
- Upgradeable with common tools
- No paints/coatings incompatible with recycling

* That meet specific environmental guidelines

Key Optional Criteria - Computer

- Elimination of Cd; Pb; Hg; CrVI
- Large parts free of PVC
- Batteries free of Pb,Cd,Hg
- Reduced number of plastic types
- 10% postconsumer recycled resin
- Min. 90% reusable/recyclable
- Early adoption of ENERGY STAR spec.
- Renewable energy accessory
- Packaging – takeback and recycling; reusable

Ratings Distribution

	BRONZE	SILVER	GOLD	Totals
Desktops	4	33	60	97
Displays	1	431	90	522
Integrated Desktop Computers	0	40	11	51
Notebooks	26	346	281	653
Thin Clients	0	6	0	6
Workstation Desktops	1	2	16	19
Workstation Notebooks	0	1	0	1
Total:	**32**	**859**	**458**	**1349**

As of Nov 13, 2009. For updated figures see www.epeat.net

EPEAT® Product Verification

- Declaration and Verification system

- Companies:
  - Sign legal agreement
  - Register products as conformant
  - Must provide required verification evidence upon request

- Product declarations randomly, regularly verified:
  - No advance notice
  - Single or multiple attributes across products
  - Conformance decided by independent panel
  - Results published, total transparency

Competition Drives Compliance

4.1 Reduction/elimination of environmentally sensitive materials

4.1.1.1 Compliance with provisions of European RoHS Directive   **Req**

4.1.2.1 Elimination of intentionally added cadmium   **(1054)**

4.1.3.1 Reporting on amount of mercury used in light sources   **Req**

4.1.3.2 Low threshold for amount of mercury used in light sources   **(1059)**

4.1.3.3 Elimination of intentionally added mercury used in light sources   **(264)**

4.1.4.1 Elimination of intentionally added lead in certain applications   **(707)**

4.1.5.1 Elimination of intentionally added hexavalent chromium   **(1134)**

4.1.6.1 Elimination of intentionally added SCCP flame retardants and plasticizers   **Req**

4.1.6.2 Large plastic parts free of certain flame retardants classified under European Commission Directive 67/548/EEC   **(1243)**

4.1.7.1 Batteries free of lead, cadmium and mercury   **(812)**

4.1.8.1 Large plastic parts free of polyvinyl chloride   **(1269)**

As of Sept 20, 2009. Total products 1294. For updated figures see www.epeat.net

USERS

42 Participating Manufacturers

- Global Companies:
  - Computers: Acer, Apple, Dell, Fujitsu, HP, Lenovo, Panasonic, Sony, Toshiba, Wyse
  - Displays: ASUSTek, CTL, Eizo, Hyundai, LG, NEC, Samsung, Viewsonic
- Many smaller and regional companies selling into government, education, healthcare

As of Nov 13, 2009. See www.epeat.net for current list

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

Government Purchasing

- **National Governments:** US, Canada federal govt., New Zealand Environment Ministry, UK Environment Agency, Australia Dept of Environment (DEWHA), Singapore and Thai govt agencies

- **States/Provinces:** California, 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

- **Cities:** San Francisco, Phoenix, San Jose, Vancouver, Seattle, Portland OR, LA County, Keene NH, Leeds, UK

Non-Government Purchasing

- **Private Sector**: Kaiser Permanente, HSBC, Premier Inc., McKesson, Marriott International, Deloitte, KPMG, Fairmount Hotels, Tesco

- **Universities** University of California system, Cornell University, Harvard, Penn State, Southern Michigan, Yale, Centre Nationale de Recherches Scientifiques (Fr)

- **Primary School Districts** – Consortium on School Networking (US)

- **Healthcare-** Green Guide for Health Care, Practice Greenhealth

Purchasers listed for identification only; identification implies no endorsement.

EPEAT® Partner Programs

Channel organizations supporting and promoting EPEAT:

- **Reseller Partners** – provide EPEAT info at point of purchase, annual purchase reporting, benefits calculation. Identified with EPEAT logo, website listing.

- **Distributor Partners** – Ingram Micro, Synnex, TechData. Provide data feeds, training to channel partners

- **Data Providers** – CNet – world's largest product data feed provider, enables e-commerce sites to display EPEAT text or logos in product listings

www.epeat.net

Sarah O'Brien

EPEAT Outreach and Communications

+1 802/479-0317

sarah.obrien@greenelectronicscouncil.org