



Understanding EPEAT

ENVIRONMENTAL RATING FOR ELECTRONICS



What is EPEAT?

EPEAT has come to be the **definitive global registry** for greener electronics over the past decade.

Designed **to help everyone** who purchases electronics—from consumers to enterprises—evaluate, compare and select products that **reduce environmental impact**

Contains **4000+** products
from **60+** manufacturers
in **43** countries

What products does EPEAT cover?

Currently: PC/Display
Imaging Equipment
Televisions

Up next: Mobile Phones
Servers
Solar Modules

Product Search:
<http://ww2.epeat.net/searchoptions.aspx>



Why Electronics?

- It takes approximately **2,200 gallons of water** to create one integrated circuit on a 30-centimeter wafer. One computer can contain a multitude of those wafers.
- 80% of electronics' environmental impact arises from **production**, yet the average lifespan of phones and computers in developed countries is about **2 years**.
- US EPA's ENERGY STAR estimates that if all computers sold in the US met Energy Star requirements, end user's energy cost savings could top **\$1 billion annually**.
- **Global e-waste** volumes are projected to increase by as much as 33% between 2013 and 2017.
- An estimated **40% of heavy metals** in US landfills are estimated to come from discarded electronics





User Benefits – Simplicity and Uniformity

For Purchasers

A single, credible environmental performance rating to efficiently address lifecycle environmental issues in purchasing specifications across electronic product categories.

For Industry

Consistent environmental performance criteria for design of products and related services across multiple geographies. Opportunity for market recognition for design and service strategies that reduce products' environmental impact.

How is EPEAT different from ENERGY STAR®?

ENERGY STAR covers energy efficiency.

EPEAT is a **more comprehensive** measure of **reduced environmental impact** than ENERGY STAR.

EPEAT's environmental criteria cover the **complete product lifecycle**.

EPEAT-registered products meet anywhere from **21 to 42 other rigorous criteria** in addition to the latest Energy Star standard.

For more info: energystar.gov



What criteria does a product have to meet?



- EPEAT's environmental criteria cover the complete product lifecycle from design through use to recycling.
- The rating system was developed by stakeholders—including manufacturers, environmentalists, purchasers, government, recyclers, researchers

How are products rated in EPEAT?

- Products must meet all **required** criteria to qualify for EPEAT.
- Required criteria identify high environmental performance
- Products are rated Bronze, Silver or Gold based on how many **optional** criteria they meet,

Green (< 50%)



Greener (50-75%)



Greenest (> 75%)



Ratings are granted automatically by system software based on declaration



Representative Purchaser Users

- **National Governments** United States, 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), NASPO ValuePoint and U.S. Communities Collaboratives
- **Cities** San Francisco, Phoenix, San Jose, Vancouver, Seattle, Portland OR, LA County, Culver City CA, Keene NH, Leeds, UK
- **Enterprise** Kaiser Permanente, KPMG, Ford Motor Company, Dignity Health, Charles Schwab, Deutsche Bank, Fairmont Hotels, HDR, HSBC, Marriott, McKesson, Microsoft, NBC-Universal, Nike, Saint Gobain, Societe Generale, Tesco

Listing is for informational purposes only and does not imply endorsement



Resources and Opportunities for Recognition

- EPEAT and your vendors
 - Plug and play contract and policy language for procurement and reporting
- Calculation of environmental and cost benefits with EPA calculator, including
 - GHG reductions
 - Energy savings
- Annual EPEAT Purchaser Awards
- EPEAT Purchaser recognition and case study opportunities



2017 EPEAT Purchaser Awards

Application Deadline: February 15, 2017

EPEAT Purchaser Award winners receive:

- Public recognition
- Calculation of environmental benefits
- Case study participation opportunities

Purchaser Awards Ceremony

March 13, 2017 at 6:00 PM in Arlington, VA

Calculation of Environmental Impact Reductions

Over their lifetime, compared to products that do not meet EPEAT criteria, the 194,893 EPEAT registered electronics purchased by the **State of Minnesota in 2015** will result in environmental impact reductions including:

- Reduce use of primary materials by 12,210 metric tons, equivalent to the weight of 337 tractor-trailer 18-wheelers
- Avoid the disposal of **105.9 metric tons of hazardous waste**, equivalent to the weight of 862 refrigerators
- Eliminate the equivalent of **43 U.S. households' annual solid waste**—81 metric tons

Energy-Related Savings

EPEAT's requirement that registered products meet the latest ENERGY STAR specifications means these products will consume less energy throughout their useful life, resulting in:

- Savings of **33.4 million kWh of electricity**—enough to power 2,617 U.S. homes for a year
- Avoidance of **42 metric tons of water pollutant** emissions
- Reduction of **6,225 metric tons of greenhouse gas emissions**— equivalent to taking 4,475 average U.S. passenger cars off the road for a year
- \$2,564,400 in cost savings





Searching the EPEAT Registry



EPEAT Search (and other web resources)

- ALL EPEAT products are viewable online - if a product is not in the online registry it is not registered in EPEAT
- Active vs. archived products
- Today – tips and tricks, Q&A, other web resources, live demonstration of the EPEAT Registry

Best information source – your vendors

- Contract requirements for reporting
 - Customizable model contract language is available under Purchaser Resources at www.epeat.net
 - Require vendors to provide regular reporting
 - Enables benefits calculation with EEBC
- EPEAT registration is by model – need to map down to configured product (esp. computers)

Starting your search

- “Search the registry”
- Select product type and country of purchase (US)
- Quick search box – numbers are ‘live’ – fast look at a given product category/rating tier
- Search by Manufacturer and Country – quick route to a specific manufacturer’s products
- Full search – for detailed investigation – many parameters

Full search

- Can research by product type, manufacturer, rating tier, criteria
- Comparisons of these items based on many different options
- Tips for successful search:
 - Start small – don't select too many aspects or the search is very slow
 - Start short – use a minimal version of the product name and filter your results to find the one you want

Questions?



Contact Information

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