

Purchasing Sustainable IT Products:

EPEAT Overview

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WHO IS THE GREEN ELECTRONICS COUNCIL?

The Green Electronics Council (GEC) is a mission driven non-profit founded in 2006

- Our vision is a world in which only sustainable IT products are designed, manufactured, and purchased
- We meet our mission by providing resources and tools to large-scale purchasers in support of their sustainable procurement journey
- Our flagship program is EPEAT, the leading global "type-1" ecolabel for IT Products

**Institutional
Purchasers**

IT Brands

GEC



GEC SUPPORTS INSTITUTIONAL PURCHASERS

GEC seeks to fulfill our Mission by ***supporting large-scale purchasers to buy*** sustainable IT products and services ***as a way to incentivize IT producers to make*** sustainable IT products

GEC Freely Available Tools and Resources

- ✓ EPEAT ecolabel
- ✓ EPEAT Benefits Calculations
- ✓ EPEAT Purchaser Recognition and Awards
- ✓ Purchaser Guides
 - Labor and Human Rights
 - Cloud Services Procurements, including Software as a Service (March 2019)
 - Procurement for Circular Economy (May 2019)
 - Procurement for Sustainable Development Goals (June 2019)
- ✓ Sustainable Procurement Policy examples
- ✓ IT products contract language examples
- ✓ Sustainable Procurement Intro or Refresher training (personalized to the organization)
- ✓ Case studies
- ✓ Webinars

WHAT PRODUCTS DOES EPEAT COVER?

Current

1. PC/Display – Desktops, Displays, Notebooks, Integrated Desktop Computers, Workstations, Thin Clients, Tablets, Digital Signage (*updated category launching December 2018*)

2. Imaging Equipment – Copiers, Digital Duplicators, Multifunction Devices, Printers, Scanners

3. Televisions

4. Mobile Phones

5. Servers

Access EPEAT product categories via www.greenelectronicscouncil.org/epeat/registry

Potential New EPEAT Product Category

6. Network Infrastructure – Routers and Switches
(*November 2020*)



BRANDS PARTICIPATING IN EPEAT*

Ace Computers

Acer Inc

Action SA

Algoritmos Procesos y Disenos, S.A.

Alplast

Apple Inc

Arquimedes Automacao e

Informatica Ltda

ASUSTek Computer Inc

Atrust Computer Corp

BenQ

Brother International Corporation

Canon

CEZAR Cezary Machnio I Piotr

Gebka Sp Zoo

Cisco Systems, Inc

Corporativo Lanix S.A. de C.V.

CTL Corporation

Cybertron

Daten Tecnologia Ltda

Dell Inc

Digital Computer

Durabook Americas Inc.

EIZO Corporation

Epson

Fujitsu Limited

GETAC

Google

HP Inc.

Hewlett-Packard Enterprise

Howard Technology Solutions

Hypertechnologie Ciara, Inc.

Hyundai IT America Corp

IGEL Technology GmbH

Iiyama Corporation

Infolandia S.A.

Inida

Kodak Alaris

Komparsa UAB

Konica Minolta

Kyocera

Lenovo

Lexmark International, Inc

LG Electronics Inc.

Login Informatica

Microsoft Corporation

Millennium Automation & Systems

Ltd

NCS Technologies, Inc.

Northern Micro Inc

NTT Systems S.A.

Onyx Healthcare Inc

Panasonic

Planar Systems Inc.

Positivo Tecnologia S.A.

Premio

Ricoh

Riso Kagaku Corporation

Samsung

Sharp

Teknoservice S.L.

Ticnova Quality Team SL

Toshiba

TPV Technology Limited

Transource

United Telelinks (Banglore) Limited

UNOWHY

ViewSonic Corporation

Visioneer

Xerox

XMA Limited



WHAT CRITERIA DOES A PRODUCT MEET?



- EPEAT's environmental criteria cover the complete product lifecycle from design through use to recycling
- Considers Total Cost of Ownership by looking at product longevity, life extension, end-of-life management

HOW ARE PRODUCTS RATED BY EPEAT?

- Products must meet all required criteria to be covered by EPEAT
 - Just by being “EPEAT” tells purchasers the product is sustainable
- Products are rated bronze, silver or gold based on the number of optional criteria they meet

Meets less than 50%
Optional Criteria



Meets 50 to 75%
Optional Criteria



Meets more than 75%
Optional Criteria



WHO USES EPEAT?

Thousands of public jurisdictions, dozens of national governments, 300+ colleges and universities, and hundreds of private enterprise organizations specify EPEAT

EPEAT protects the environment, human health, and the bottom line.

Widespread adoption, and frequent reference in Corporate Responsibility reports is based upon:




- ✓ Trust
- ✓ Credibility
- ✓ Ease of use in procurements
- ✓ Product availability across broad range of brands.

Global EPEAT-
registered
IT shipments
surpassed
One BILLION units
in 2016

GEC EPEAT BENEFITS CALCULATOR

GEC's interactive environmental benefits calculator **allows purchasers to measure and report the environmental benefits** gained from purchasing IT products covered by the EPEAT ecolabel.

The benefits calculator also **allows purchasers to estimate how they can achieve further environmental reductions** by using products longer and responsibly recycling them when taken out of service.

Focus Area	Impact	Equivalent to:
 Electricity	54 million Kilowatt Hours	The annual electricity consumption of 4,244 average US households 
 GHG Emissions	9,193 Metric Tons	Taking 6,609 average US passenger cars off the road for a year 
 Hazardous Waste	124 Metric Tons	The weight of 979 Refrigerators 
 Primary Materials	19,193 Metric Tons	The weight of 525 tractor-trailer 18-wheelers 
 Solid Waste	664 Kilograms	Annual waste generation of 355 U.S. households 
 Water Emissions	85 Metric Tons	
Cost Savings	\$5,594,492 Over the lifetime of the products	



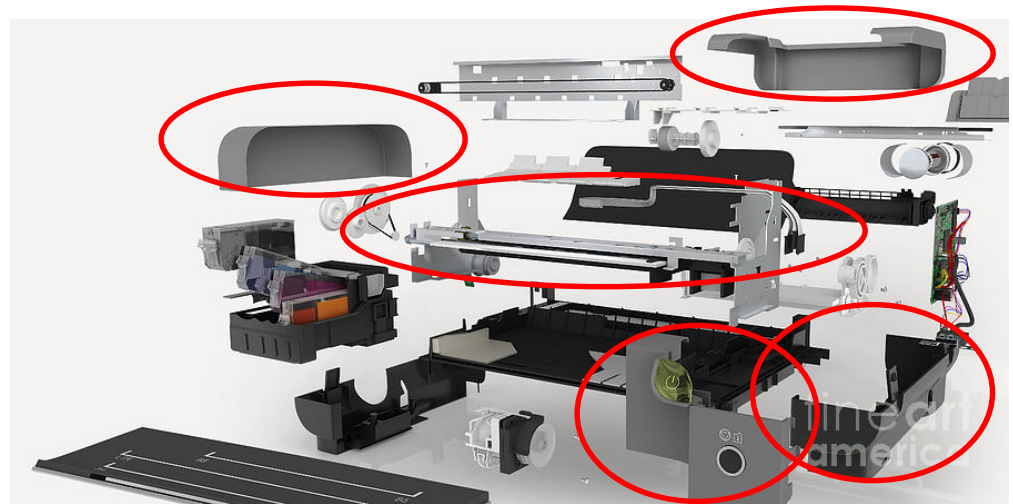
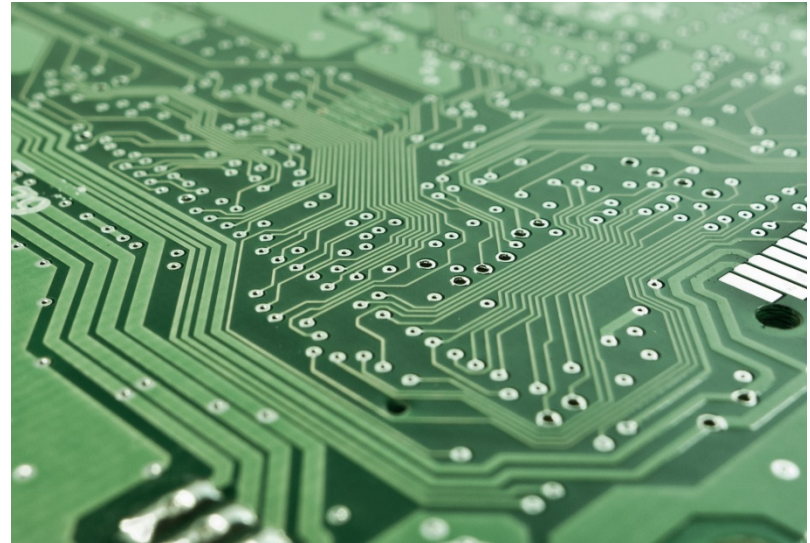
Results from Kaiser Permanente 2016 Purchases



MINIMIZING FLAME RETARDANTS IN ELECTRONICS

EPEAT Criteria focuses on two ways of reducing flame retardants:

1. Eliminating Brominated and Chlorinated flame retardants from specific parts in the product
 - a. Printed circuit board
 - b. Plastic encasing
 - c. The whole product
2. Use hazard assessment to find lower hazard substitution for FR in all plastic parts >25g
 - a. Servers
 - b. Computers and Displays 2018



SELECTING PRODUCTS FOR REDUCING

FILTERS

Product Name Manufacturer Product Type Country EPEAT Rating

SEARCH CLEAR FILTERS

Looking to filter by specific EPEAT criteria? [HIDE ADVANCED SEARCH OPTIONS](#)

Active On

January 8th

Select EPEAT criteria to filter by:

- (4.1.2.1) Further reduction of the use of European Union RoHS Directive hazardous substances (cadmium)
- (4.1.3.2) Use of non-mercury containing light sources
- (4.1.4.1) Reduction of substances on the European Union REACH Candidate List of SVHCs
- (4.1.6.2) Eliminating or reducing BFR/CFR content of printed circuit board laminates
- (4.1.6.3) Eliminating or reducing BFR/CFR/PVC content of product
- (4.1.7.1) Reduce fluorinated gas emissions resulting from flat panel display manufacturing

Computers and Displays 2018

4.1.8.1 Optional—Chemical assessment and selection

Servers

6.2.5 Optional - Improving substance selection

Imaging Equipment:

- 4.1.6.1 Required—Reducing BFR/CFR/PVC content of external plastic casings
- 4.1.6.2 Optional—Eliminating or reducing BFR/CFR content of printed circuit board laminates
- 4.1.6.3 Optional—Eliminating or reducing BFR/CFR/PVC content of product

TVs

- 4.1.7.1 Required—Reducing BFR/CFR/PVC content of external plastic casings
- 4.1.7.2 Optional—Eliminating or reducing BFR/CFR content of printed circuit board laminates
- 4.1.7.3 Optional—Eliminating or reducing BFR/CFR/PVC content of product

CRITERIA REVISION PROCESS



1st revision: Clarifications, errata
2nd revision: additional criteria, change thresholds
3rd revision – full review of standard with new environmental and social impacts review



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