Green Electronics Council　Nancy Gillis 氏「EPEAT とアメリカのグリーン公共調達」

GREEN ELECTRONICS COUNCIL

GREEN ELECTRONICS COUNCIL OVERVIEW

December 2018

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
- 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
- Our flagship program is EPEAT, the leading global "type-1" ecolabel for IT Products

Institutional Purchasers ⟷ **IT Brands**

GEC

GEC FREELY AVAILABLE TOOLS AND RESOURCES

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

WHAT IS THE GEC PURCHASER GUIDE SERIES?

- Guidance for public and private institutional purchasers
- Addresses purchasers desire to put their procurement spend behind sustainable IT products/services based on aspects not covered by EPEAT ecolabel
- Addresses frustration felt by both purchasers and IT companies:
  - Purchaser uncertain on what questions and supporting documentation they should ask for from their suppliers
  - Producers receive confusing and duplicative surveys and questionnaires from purchasers

GEC "LABOR AND HUMAN RIGHTS IMPACTS" PURCHASER GUIDE

Ten procurement questions addressing purchasers expectations relating to:

- Commitment to addressing labor and human rights
- Supplier risk screening
- Assessing suppliers
- Corrective action
- Continuous improvement
- Capacity building
- Reporting
- External collaboration
- Responsible sourcing
- Raw materials extraction

PURCHASERS GUIDE FOR CLOUD SERVICES

- Addresses purchasers' desire to identify and claim sustainability benefits associated with their procurement of cloud services
- Builds on GEC's research project with Arizona State University
- GEC assembled a multi-stakeholder Working Group
  - Representatives from industry, procurement, NGOs, consultancies, and the European Commission's Joint Research Group developing GPP for datacenters
- Addresses sustainability gains in the areas of:
  - Supplier Practices and Policies
  - Data Center Facility and Equipment
  - Data Center Power Sources

SUSTAINABLE PROCUREMENT TRAINING

- GEC applies the "Procurement First" philosophy to sustainable procurement training. The ½ Day workshop helps its audience to:
  - Understand the sustainable purchasing value add
  - Organizational considerations
  - Commodity prioritization and sustainable specification development
  - How to embed sustainability into the procurement process
  - Maintaining a successful sustainable purchasing program

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)*

EPEAT HAS MORE UNIQUE PRODUCTS BY MORE MANUFACTURERS THAN ANY OTHER IT ECOLABEL

EPEAT Product Category	Number of Products	Number of Manufacturers
PCs and Displays	2670	47
Imaging Equipment	1920	16
TVs	124	2
Mobile Phones	33	4
Servers	33	2

www.greenelectronicscouncil.org/epeat/registry

- *EPEAT Unique Products and Brands as of Oct 31, 2018*

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

*As of June 2018

HOW ARE EPEAT CRITERIA DEVELOPED?

Balanced Voluntary Consensus Process

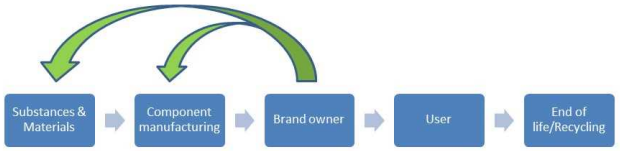
Lifecycle of Product

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
epeat BRONZE	epeat SILVER	epeat GOLD

REACHING BACK INTO SUPPLY CHAIN



Climate Change

- Energy consumption in supplier operations
- Renewable energy use in supplier operations
- Reduction of F-GHG emissions in semiconductor and display manufacturing
- Product carbon footprint

Social Responsibility

- Worker health and safety
- Labor
- Conflict minerals

POTENTIAL NEW EPEAT CATEGORY NETWORK EQUIPMENT

- GEC partnering with TUV Rheinland - 150 year old global technical services company, headquartered in Germany
- TUV Rheinland operates Green Product Mark
  - ANSI recognized Type 1 eco-label
- TUV Rheinland has two existing standards for "routing switches" and "routers" that will be leveraged to speed up criteria development process
- Manufacturers have opportunity to obtain joint EPEAT/Green Product Mark – expending less staff and financial resources

NETWORK EQUIPMENT SCOPE

1) Enterprise Switches and Routers

Covers Enterprise, Service Provider, and Branch office routers, and Ethernet switch products.

Aligns with EPA ENERGY STAR Large Network Equipment and ATIS-0600015.03.2016 Energy Efficiency for Telecommunications Equipment: Methodology for Measurement and Reporting for Router and Ethernet Switch Products.

2) Customer-Premises Routers

Aligns with category in EPA ENERGY STAR Small Network Equipment specification

Network device including broadband modem to communicate via the internet as well as surfing the internet or network. The router may have additional interfaces for WLAN, LAN, DECT, USB, etc.

WHICH PURCHASERS USE EPEAT?

Thousands of **public jurisdictions**, dozens of **national governments**, 300+ **colleges and universities** and hundreds of **private sector** organizations in Hospitality, Finance, Healthcare and other sectors specify EPEAT

EPEAT highlighted in countless laws, directives, policies, best-practices, and guidance documents

Widespread adoption and repeated endorsement for over a decade based on:

- ✓ Trust
- ✓ Credibility
- ✓ Ease of use in procurements
- ✓ Product availability – broad range of brands available via EPEAT

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

EXISTING US FEDERAL ACQUISITION REGULATIONS

- FAR 23.103 Sustainable acquisitions. (a) Federal agencies shall advance sustainable acquisition by ensuring that 95 percent of new contract actions for the supply of products and for the acquisition of services (including construction) require that the products are Environmentally preferable (e.g., EPEAT-registered, or non-toxic or less toxic alternatives);
  - FAR 52.223-13 Acquisition of EPEATR-Registered Imaging Equipment
  - FAR 52.223-14 Acquisition of EPEATR-Registered Televisions
  - FAR 52.223-16 Acquisition of EPEATR-Registered Personal Computer Products
- FAR 23.703 b(1) directs agencies to procure environmentally preferable products "based on EPA issued guidance"
- The EPA Recommendations include recommending procuring EPEAT registered Computers, TVs, Imaging Equipment, and Mobile Phones

EXECUTIVE ORDER 13834 ON EFFICIENT FEDERAL OPERATIONS (2018)

Section 3(b) **directs EPA, DOE, USDA, and GSA to "within 90 days of the date of this order" (by August 15th) to review** relevant Government-wide guidance related to energy and environmental performance issued by their respective agencies and shall, in conjunction with CEQ, **develop a plan** and proposed timeline to **modify, replace, or rescind such guidance, as necessary, to facilitate implementation of this order**"

Unknown the outcome of this review will be, or what "guidance" will be required to be reviewed.

Implementing Instructions were supposed to be issued by CEQ by October 14th, which will provide Agencies with more detail on how to meet the requirements laid out in the Executive Order.

GEC EPEAT BENEFITS CALCULATOR

August 2018	Mobile Phone
November 2018	Servers
December 2018	Computers & Displays

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

EPEAT CAN HELP ORGANIZATIONS WITH THEIR SUSTAINABILITY REPORTING

UN Global Compact Guidance	GEC and EPEAT Benefits
• Examine investment criteria and the sourcing policy for suppliers and contractors to ensure that tenders stipulate minimum environmental criteria	• Purchasing EPEAT-registered technologies is one of the easiest way to evaluate your suppliers sustainability performance and commitments
• Establish a corporate or individual company policy on the use of environmentally sound technologies	• GEC provides examples of sustainability IT policy language to add to your procurement policies
• Make information available to stakeholders that illustrates the environmental performance and benefits of using such technologies	• GEC offers a benefits calculator that identifies 'environmental benefits to share with your stakeholders • Annual EPEAT Purchaser Awards recognizes procurement leadership

Guidance is available on how EPEAT supports GRI Reporting

Referencing use of EPEAT will strengthen your CDP Response

Purchasing EPEAT products allows you to report against Sustainability Development Goals Indicators

EPEAT PURCHASER AWARDS

The EPEAT Purchaser Awards recognizes excellence in sustainable procurement of IT products.

To qualify, organizations annually submit to GEC a report by purchase volume of EPEAT-registered products.

https://greenelectronicscouncil.org/awards-events/epeat-purchaser/

2018 Award Winners

National and local governments, healthcare organizations, financial institutions, K-12 schools, universities, IT services company, and a cooperative purchasing organization

Winners from 4 countries: Canada, India, Scotland, and United States

EPEAT IN THE EU: ECOLABEL COMPARISON

	EPEAT	TCO	Blue Angel	EU Ecolabel
Product verifications focus on IT products	✓	✓	No – many more categories	No – many more categories
Number of verified products:	4,000 plus (All IT products)	2,800 plus (All IT products)	10,000 plus (mostly non-IT products)	54,000 plus (mostly non-IT products)
Verification criteria address environmental and social impacts	✓	✓	✓	✓
Online Product Registry	✓	✓	✓	✓
Offers examples of Policy and Contract language	✓	✓	No	No
Allows purchasers to include those purchases in UNGC, SDG, GRI and CDP reporting	✓	No	No	No
Offers a 'Benefits Calculator' to quantify benefits of purchases	✓	No	No	No
Annually recognizes purchasers with 'Purchaser Awards'	✓	No	No	No

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