



Guidance on Purchasing EPEAT® Registered Products

**Chemistry, Economics & Sustainable Strategies Division
Office of Chemical Safety and Pollution Prevention
US Environmental Protection Agency**



Introduction to EPEAT®



What is EPEAT®?

- The Electronic Product Environmental Assessment Tool (EPEAT)
- Helps *purchasers* evaluate, compare and select electronic products based on their environmental attributes
- Enables *manufacturers* to obtain market recognition through achievement of specific performance criteria in electronic product design and sales
- Managed by the *Green Electronics Council*



What is EPEAT[®] Continued...

- A set of environmental performance standards for electronic products
- A registry of products that meet the standards
- A verification system to ensure that products have achieved specified performance criteria



What Products Does EPEAT® Cover?

- **Computers:**
 - Desktops, Notebooks (including two in one notebooks), Monitors/Displays (including Signage Displays), Integrated Desktop Computers, Workstation Desktops, Thin Clients, and Slates/Tablets
- **Imaging equipment:**
 - (Printers, Copiers, Multi-Function Devices, Scanners, Fax Machines, Digital Duplicators, Mailing Machines)
- **Televisions**
- **Mobile Phones**
- **Servers**
- **Photovoltaic (PV) Modules & Inverters**

Up Next:

- **Network Equipment**





How are the Standards EPEAT[®] Uses Created?

- Developed through ANSI accredited Standards Development Organizations (NSF, UL, IEEE)
- Through an open, consensus based process
- Participation by manufacturers, suppliers, recyclers, academics, government representatives, purchasers, and environmental advocacy organizations



How are products rated in EPEAT®?

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

Green (< 50%)



Greener (50-75%)



Greenest (> 75%)





Why Buy EPEAT[®] Registered Products?



Why Buy EPEAT[®] Registered Products?

- Save the government money
- Reduce environmental and public health impacts of IT manufacture, use, and disposal
- Use the power of the federal pocketbook to drive change in the global marketplace
- Win an EPEAT Purchaser Award
- It's required

2018 Cost Savings & Environmental Results



of products purchased Worldwide: 181,119,135 million

of products purchased by U.S. Federal Government: 6,884,072 million

	Worldwide	US Fed Government
Energy (MWh)	38,083,488	1,798,476
Primary Materials (MT)	8,359,992	632,700
GHG Emissions (MT of CE)	19,474,658	1,160,208
Air Emissions (MT)	16,717,930	1,232,600
Water Emissions (MT)	44,496	2,428
Municipal Solid Waste (MT)	385,186	12,616
Hazardous Waste (MT)	68,413	4,394
Cost (\$)	2,991,934,535	182,552,272

Global Environmental Benefits



Over their lifetime, compared to products that do not meet EPEAT criteria, the **1,339,151,687** EPEAT-registered IT products purchased worldwide from 2006-2018 alone will result in a reduction of:

GHG Reduction

184,334,012

metric tons of CO₂ equivalents



39,471,951

Taking 39,471,951
average US passenger
cars off the road for a year



Hazardous Waste

830,311

metric tons



8,320

The weight of 8,320
Boeing 757s



Primary Materials

208,071,710

metric tons



2,085,096

The weight of 2,085,096
blue whales

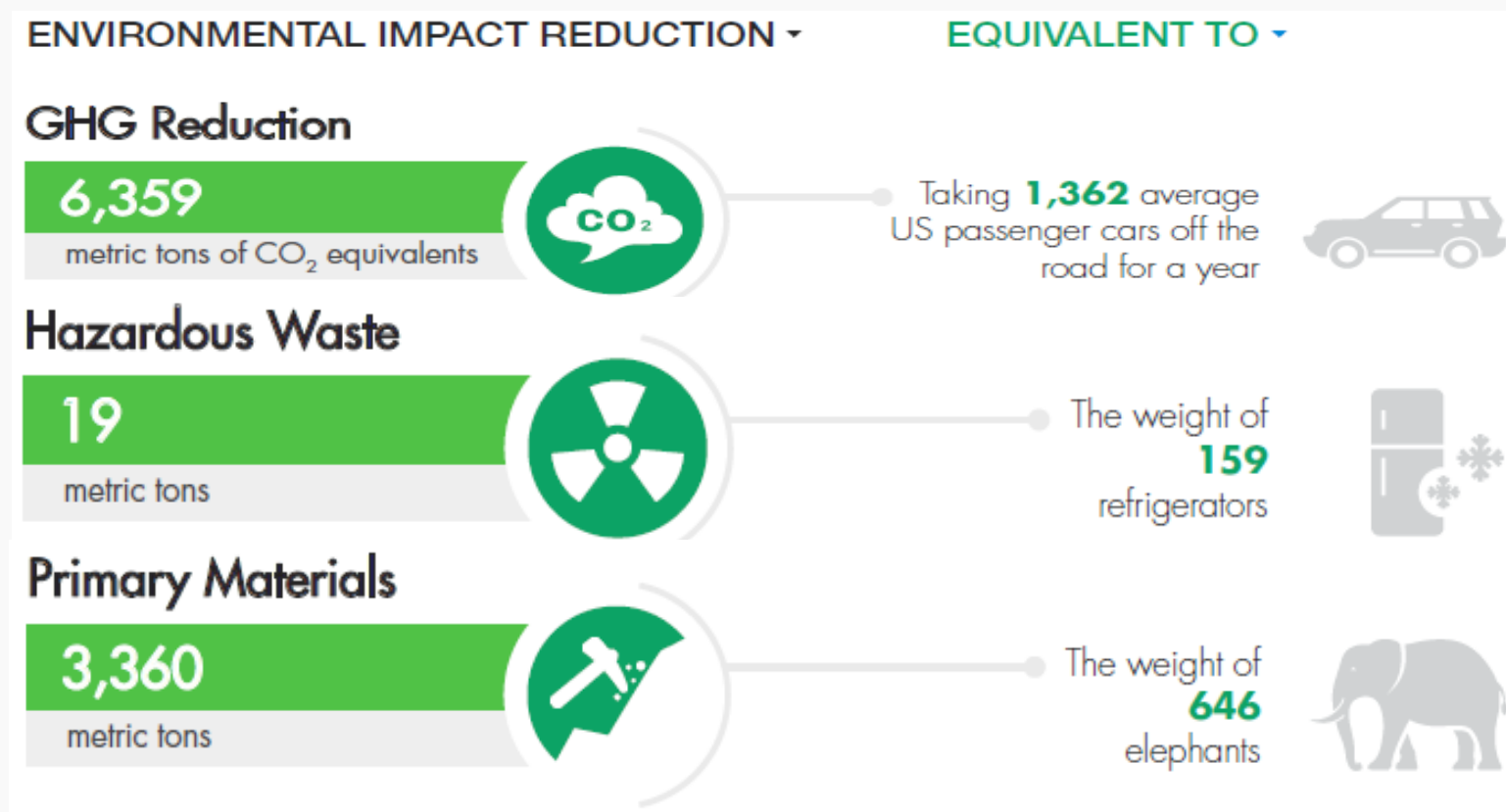


2020 EPEAT Purchaser Award Winner & Results



U.S. Department of Agriculture

Total lifetime impact reductions and cost savings over the lifetime of **32,464**
EPEAT registered products purchased in 2019: **\$974,324**



2020 EPEAT Purchaser Award Winner & Results



U.S. General Services Administration

Total lifetime impact reductions and cost savings over the lifetime of **9,561** EPEAT registered products purchased in 2019: **\$102,284**

ENVIRONMENTAL IMPACT REDUCTION ▾

EQUIVALENT TO ▾

GHG Reduction

684,713

kg of CO₂ equivalents



Taking **147** average
US passenger cars off the
road for a year



Hazardous Waste

2,472

kilograms



The weight of
20
refrigerators



Primary Materials

347,077

kilograms



The weight of
67
elephants



What is More Sustainable About EPEAT® Registered Products?





Feds are Required to Buy EPEAT[®] Registered Products

- Per the Federal Acquisition Regulation (FAR) Part 23
 - Requires acquisition of EPEAT[®] registered electronics (23.103A and 23.704)
 - Contracting clause requires acquisition of Bronze registered products, alternate clause for Silver or higher



EO13834 and Implementing Instructions and Electronics Procurement

- [Executive Order 13834 for Efficient Federal Operations](#) directs Agencies to “*Acquire, use, and dispose of products and services, including electronics, in accordance with statutory mandates for purchasing preference, Federal Acquisition Regulation requirements, and other applicable Federal procurement policies*”
- The [Implementing Instructions](#) (pg 31) direct:
 - Agencies to: “*...manage electronics to reduce energy and environmental impacts in accordance with EO 13834 goals for Energy Reduction ...and Acquisition...*”,
 - And CIOs to “*...Identify and implement best life cycle management business practices for electronic equipment that minimize consumption of energy and supplies...*”
- It states that “*Policies for acquisition apply to electronic equipment*” and notes that “*...Section III C.1 contains relevant requirements, strategies, tools, and resources*”.
- Section III C.1, Guidance and Resources section includes [EPA’s Recommendations of Specifications, Standards, and Ecolabels for Federal Purchasing](#), which recommend procurement of EPEAT registered products.



Finding and Procuring EPEAT® Registered Products



What Is Considered An EPEAT® Registered Product?

- Products must be **active** EPEAT registered products at:
 - the time of bid submission
 - the time of award
 - the time of purchase
- Archived EPEAT registered products are not considered EPEAT registered products

EPEAT® Registered Products



- For the purposes of compliance and reporting :
 - Products count as EPEAT-registered if they had an active registration at the time of acquisition

ALARIS E1025 SCANNER



IMAGING EQUIPMENT

Product Summary:

Product Type:	Scanner
Registered In:	United States
Manufacturer:	Kodak Alaris
EPEAT Tier:	Gold
Registration Date:	2019-04-10
Product Status:	Active

Screenshot from epeat.net



What Dollar Threshold of IT Purchases Does the EPEAT[®] Requirement Apply to?

- **ALL PURCHASES** -- There is no statutory, executive order, or FAR threshold for purchases of sustainable products.
- FAR 13.201 (f) “The procurement requirements in subparts 23.1, 23.2, 23.4, and 23.7 apply to purchases at or below the micro-purchase threshold”.

Product Availability as of October 2020



Product	Number Registered in the US	Number of Manufacturers with Registered Products	Percent of Global Market Share Represented
Computers and Displays (launched 2019)	13,716	34	85%
Imaging Equipment	3,439	16	90 – 95%
Televisions	14	LG Electronics, Samsung	31%
Mobile Phones	59	Apple Inc., Google, LG Electronics, Samsung	34%
Servers	373	HP Enterprises, Dell EMC, Lenovo, Cisco Systems	50%

If you don't see a product on the registry that you want to procure, let your vendors know!



Searching the EPEAT® Registry

Go to www.epeat.net

SELECT A PRODUCT CATEGORY TO **START SEARCH**

COMPUTERS & DISPLAYS



IMAGING EQUIPMENT



MOBILE PHONES



PHOTOVOLTAIC MODULES
AND INVERTERS



SERVERS



TVS



EPEAT Registry

Your Resource for Sustainable Electronics

ACCESS EPEAT CRITERIA

epeat

EPEAT® Registry Search



Once you select a product category, you can search by product name, manufacturer, type, location of use, EPEAT tier, and even more by using the “advanced search” option

Search Imaging Equipment | Total 360 Results

Product Name	Product Type Printer	Manufacturer
Location of Use United States	EPEAT Tier	Status Active
Where product is purchased and/or used		

Advanced Filter Options

View EPEAT optional criteria

SEARCH

CLEAR

The EPEAT Registry is updated daily.

EPEAT® Registry Search



Once you click “search”, the results will display below.
You have the option to export the results into a .csv file

360 Results Found

EXPORT RESULTS

EXPORT ADVANCED

Product Name	Manufacturer	Product Type	Location of Use	EPEAT Tier	Registered on	Status
Brother HL-L2350DW	Brother	Printer	United States	Silver	2017-12-25	Active
Brother HL-L2370DW	Brother	Printer	United States	Silver	2017-12-25	Active
Brother HL-L2370DWXL	Brother	Printer	United States	Silver	2017-12-25	Active
Brother HL-L3210CW	Brother	Printer	United States	Silver	2018-09-19	Active
Brother HL-L3230CDW	Brother	Printer	United States	Silver	2018-09-19	Active
Brother HL-L3270CDW	Brother	Printer	United States	Silver	2018-09-19	Active
Brother HL-L5000D	Brother	Printer	United States	Silver	2018-03-29	Active
Brother HL-L5100DN	Brother	Printer	United States	Silver	2018-03-29	Active
Brother HL-L5200DW	Brother	Printer	United States	Silver	2018-03-29	Active
Brother HL-L5200DWT	Brother	Printer	United States	Silver	2018-03-29	Active

This list is just a sample and does not include all Imaging Equipment manufacturers

EPEAT® Registry Search



The “advanced search” option allows you to see which products meet specific optional criteria

Search Imaging Equipment | Total 360 Results

Product Name	Product Type Printer	Manufacturer
Location of Use United States	EPEAT Tier	Status Active
Where product is purchased and/or used		

Advanced Filter Options

View EPEAT optional criteria

SEARCH

CLEAR

The EPEAT Registry is updated daily.

EPEAT® Registry Search



The “advanced search” option allows you to see which products meet specific optional criteria

Select EPEAT optional criteria to filter by:

- | | |
|---|---|
| <input type="checkbox"/> (4.1.2.1) Further reduction of the use of European Union RoHS Directive hazardous substances (cadmium) | <input type="checkbox"/> (4.1.3.2) Use of non-mercury containing light sources |
| <input type="checkbox"/> (4.1.4.1) Reduction of substances on the European Union REACH Candidate List of SVHCs | <input type="checkbox"/> (4.1.6.2) Eliminating or reducing BFR/CFR content of printed circuit board laminates |
| <input type="checkbox"/> (4.1.6.3) Eliminating or reducing BFR/CFR/PVC content of product | <input type="checkbox"/> (4.1.7.1) Reduce fluorinated gas emissions resulting from flat panel display manufacturing |
| <input type="checkbox"/> (4.1.8.1) Inventory of intentionally added chemicals residing in the product | <input type="checkbox"/> (4.2.1.3) Minimum 5% to 10% content of postconsumer recycled plastic |
| <input checked="" type="checkbox"/> (4.2.1.4) Minimum 25% content of postconsumer recycled plastic | <input type="checkbox"/> (4.2.2.2) Minimum content of biobased plastic material |



EPEAT® Registry Search



The “advanced search” option allows you to see which products meet specific optional criteria

32 Results Found

[EXPORT RESULTS](#)  [EXPORT ADVANCED](#) 

Product Name 	Manufacturer 	Product Type 	Location of Use 	EPEAT Tier 	Registered on 	Status 
HP DesignJet T1700 Printer Series	HP	Printer	United States	Gold	2018-02-14	Active
HP DesignJet T1708 Printer Series (BCLAA-1702)	HP	Printer	United States	Gold	2018-09-18	Active
HP DesignJet T210/T230/T250 24-in Printer	HP	Printer	United States	Gold	2020-09-02	Active
HP DesignJet T630/T650 24-in Printer	HP	Printer	United States	Gold	2020-09-02	Active
HP DesignJet T630/T650 36-in Printer	HP	Printer	United States	Gold	2020-09-02	Active
HP DesignJet Z6 Printer Series (BCLAA-1702)	HP	Printer	United States	Gold	2018-05-02	Active
HP DesignJet Z9 Printer Series (BCLAA-1702)	HP	Printer	United States	Gold	2018-05-02	Active
HP LaserJet Enterprise M507x	HP	Printer	United States	Silver	2019-05-22	Active

Finding & Procuring EPEAT® Registered Products



Find products on the EPEAT Registry: www.epeat.net

Procure products via:

Product	Major IT Contracts
Computers (desktops, laptops, tablets, displays)	<ul style="list-style-type: none">• NASA SEWP• NIH NITAAC BPA or CIO CS IT GWAC• Army CHESS Contract• GSA Schedule 70
Servers/Cloud Services	<ul style="list-style-type: none">• GSA 2nd Generation IT BPA
Mobile Phones/Wireless Services	<ul style="list-style-type: none">• Ask for EPEAT registered via task orders under the FSSI Enhanced Wireless Program
Imaging Equipment/Print Management Services	<ul style="list-style-type: none">• Ask for EPEAT registered via task orders under the NASA SEWP
TVs	<ul style="list-style-type: none">• Ask for EPEAT registered via task orders under the NASA SEWP

Other purchasing platforms include: [GSA Advantage](#), [DOD FedMall](#)

Specify you want EPEAT registered products in all Task Orders!



Integrating EPEAT[®] Requirements Into Contracts



Using Existing Contracts

- Check –
 - Does your contract require vendors to provide EPEAT registered products?
 - Do you need to specify that you want EPEAT registered products in task or delivery orders?
 - Can EPEAT registration requirements be added to contract in upcoming technology refreshes or contract modifications?



Contract Clauses in the FAR

- FAR Part 23 requires acquisition of **ALL** EPEAT® registered electronic products (23.103A and 23.704)
- The FAR currently includes contract clauses for EPEAT registered Computers, Imaging Equipment, and Televisions
- There is currently no specific clause for Mobile Phones or Servers, but similar language can be used
- These clauses can be integrated in existing contracts via technology refreshes and added to all new contracts



FAR Contract Clause for Procuring EPEAT Registered Computer Desktops, Laptops, and Monitors

52.223-16 Acquisition of EPEAT Registered Personal Computer Products

(b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for contractor use at a Federally controlled facility, only personal computer products that at the time of submission of proposals and at the time of award, were EPEAT Bronze registered or higher.

(c) For information about EPEAT, see www.epa.gov/epeat.

Alternate I (Jun 2014). As prescribed in [23.705](#)(d)(2), substitute the following paragraph (b) for paragraph (b) of the basic clause:

(b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for contractor use at a Federally controlled facility, only personal computer products that, at the time of submission of proposals and at the time of award, were **EPEAT Silver registered or gold-registered**.



FAR Contract Clause for Procuring EPEAT Registered Imaging Equipment

52.223–13 Acquisition of EPEAT®- Registered Imaging Equipment.

(b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only imaging equipment that, at the time of submission of proposals and at the time of award, was EPEAT® bronze registered or higher.

(c) For information about EPEAT®, see www.epa.gov/PEAT.

Alternate I (Jun 2014). As prescribed in 23.705(b)(2), substitute the following paragraph (b) for paragraph (b) of the basic clause:

(b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for contractor use at a Federally controlled facility, only imaging equipment that, at the time of submission of proposals and at the time of award, was EPEAT **silver-registered or gold-registered**.



FAR Contract Clause for Procuring EPEAT Registered Televisions

52.223–14 Acquisition of EPEAT®- Registered Televisions

(b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only televisions that, at the time of submission of proposals and at the time of award, were EPEAT® bronze registered or higher.

(c) For information about EPEAT®, see www.epa.gov/PEAT.

Alternate I (Jun 2014). As prescribed in 23.705(c)(2), substitute the following paragraph (b) for paragraph (b) of the basic clause:

(b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only televisions that, at the time of submission of proposals and at the time of award, were EPEAT® **silver-registered or gold-registered**.



Sample Contract Language for EPEAT Registered Mobile Phones

- The FAR currently does not include a specific contract clause for Mobile Phones, however the FAR requires the procurement of **ALL** EPEAT registered electronics, including mobile phones.

Acquisition of EPEAT®- Registered Mobile Phones

Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only Mobile Phones that, at the time of submission of proposals and at the time of award, were EPEAT® bronze registered or higher. For information about EPEAT®, see www.epa.gov/epeat.

Alternate I: Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only mobile phones that, at the time of submission of proposals and at the time of award, were EPEAT® **silver-registered or gold-registered**.

- See the [Mobile Services Category Management Team's Mobile Devices Procurement Guidance Document](#)



Sample Contract Language for EPEAT Registered Servers

- The FAR currently does not include a specific contract clause for Servers, however the FAR requires the procurement of **ALL** EPEAT registered electronics, including servers.

Acquisition of EPEAT®- Registered Servers

Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only servers that, at the time of submission of proposals and at the time of award, were EPEAT® bronze registered or higher. For information about EPEAT®, see www.epa.gov/epeat.

Alternate I: Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only servers that, at the time of submission of proposals and at the time of award, were EPEAT® **silver-registered or gold-registered**.

NOTE: check www.epeat.net to see the current list of EPEAT registered servers, see how many are bronze/silver/gold registered prior to selecting which contract clause to use.



Sample Contract Language for EPEAT Photovoltaic Modules and Inverters

- The FAR currently does not include a specific contract clause for Photovoltaic (PV) Modules and Inverters, however the FAR requires the procurement of **ALL** EPEAT registered electronics, including servers.

Acquisition of EPEAT®- Registered Photovoltaic Modules and Inverters

Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only servers that, at the time of submission of proposals and at the time of award, were EPEAT® bronze registered or higher. For information about EPEAT®, see www.epa.gov/epeat.

Alternate I: Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only photovoltaic modules and inverters that, at the time of submission of proposals and at the time of award, were EPEAT® **silver-registered or gold-registered**.

NOTE: check www.epeat.net to see the current list of EPEAT registered photovoltaic modules and inverters, see how many are bronze/silver/gold registered prior to selecting which contract clause to use.



Tracking Our Greener IT Purchases



Quantifying Value of Procuring More Sustainable Electronics

- Use the [EPEAT Benefits Calculators](#) to document cost savings and environmental benefits from procuring EPEAT registered products
- Include in Agency Sustainability Reports and Implementation Plans (SRIPs), share with management
- Example: DOE's Information Brief



Requirements in the FAR to Track EPEAT® Procurements

FAR 42.301 (a) (68) **Monitor** the contractor's **environmental practices** for adverse impact on contract performance or contract cost, and for **compliance with environmental requirements** specified in the contract. ACO responsibilities include—

- (i) Requesting environmental technical assistance, if needed;
- (ii) Monitoring contractor compliance with specifications or other contractual requirements requiring the **delivery or use of environmentally preferable products**, energy-efficient products, products containing recovered materials, and biobased products. This must occur as part of the quality assurance procedures set forth in Part 46.

Recommended Language for New Contracts



“Suppliers are required to provide quarterly reports quantifying the number of EPEAT registered products purchased or leased under this contract. The information must be reported in a matrix providing the following data for the current quarter, the fiscal year, and the duration of the contract”.

	Unregistered	Bronze	Silver	Gold
Desktops	1	0	5	12
Notebooks	0	1	3	10
Displays	0	0	0	30
Televisions	1	1	0	0
Printers	0	5	0	0
Copiers	0	2	0	0
MFDs	1	1	0	0
Mobile Phones	0	2	8	25
Servers	5	50	0	0
PV Modules & Inverters	0	2	1	0

EXAMPLE



C.6.9.6 EPEAT Report The Contractor shall provide the EPEAT report on a quarterly basis. Each quarterly report shall quantify the number of EPEAT registered and non-EPEAT registered products purchased or leased under this contract for the specified quarter. Not all items must be reported. Items that must be reported include Desktop Computers, Monitors, Laptop Computers, Televisions, Multifunction Devices, and Printers. The information must be reported in the template form provided at Chapter D, Attachment 2, and submitted to the IDIQ COR and the IDIQ CO and cc to the DHS Environmental Program Manager at ocao-sustainabilityreports.hq.dhs.gov, no later than the 15th of the month following the quarter being reported on. If non-EPEAT registered products are sold and reported, a brief explanation of procurement background or justification shall be included in the report. An EPEAT report is not necessary if there were no purchases for that quarter.

Best Practices - DHS



- When an ordering activity specifies personal computer products that are not EPEAT registered and suitable EPEAT products are available, the Contractor shall:
 - Notify the requester of the requirement to purchase the EPEAT product; and
 - Provide a suitable alternative(s) that meet the EPEAT registered requirements.



Get Recognized!



Motivate Employees with an EPEAT® Purchaser Award!

- [Apply](#) for recognition
- [Share](#) your success stories
- [See](#) how you rank against other Agencies



Need Further Assistance?

- Holly Elwood, EPA
 - elwood.holly@epa.gov
 - 202-564-8854
- www.epa.gov/epeat (training slides, contract clauses, [benefits calculators](#), and other resources)
- Go to the [Green Electronics Council \(GEC\)](#) website for:
 - The current list of EPEAT registered products
 - Access to the standards EPEAT is based upon
 - EPEAT Purchaser Award Application Information
- [GSA's Green Procurement Compilation](#)
- See the list of the agency IDC contacts at:
<https://community.max.gov/x/UwihSQ>