

FEDERAL ACQUISITION INSTITUTE



Buying Greener Products: Guidance for the Federal Community

"the federal government can and should lead by example when it comes to creating innovative ways to reduce greenhouse gas emissions, increase energy efficiency, conserve water, reduce waste, and use environmentally responsible products and technologies".

- President Obama, October 2009

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What I'll Cover Today

- Introduction to Environmentally Preferable Purchasing
- Status of Environmentally Preferable Purchasing in the Federal Community
- Guidance on Procuring Environmentally Preferable Electronics



The Environmentally Preferable Purchasing Program

- Established in 1993 by Executive Order, and reaffirmed in Obama's EO 13514
- Mandated EPA to:
 - Help federal agencies buy greener products and services
 - Harness federal purchasing power to green markets
- Lead Agency efforts to:
 - Work with stakeholders to create life cycle, multi-attribute environment performance standards for priority products that feds procure and
 - Provide technical assistance to help feds buy products meeting these standards
- Focus on electronics, buildings, meetings

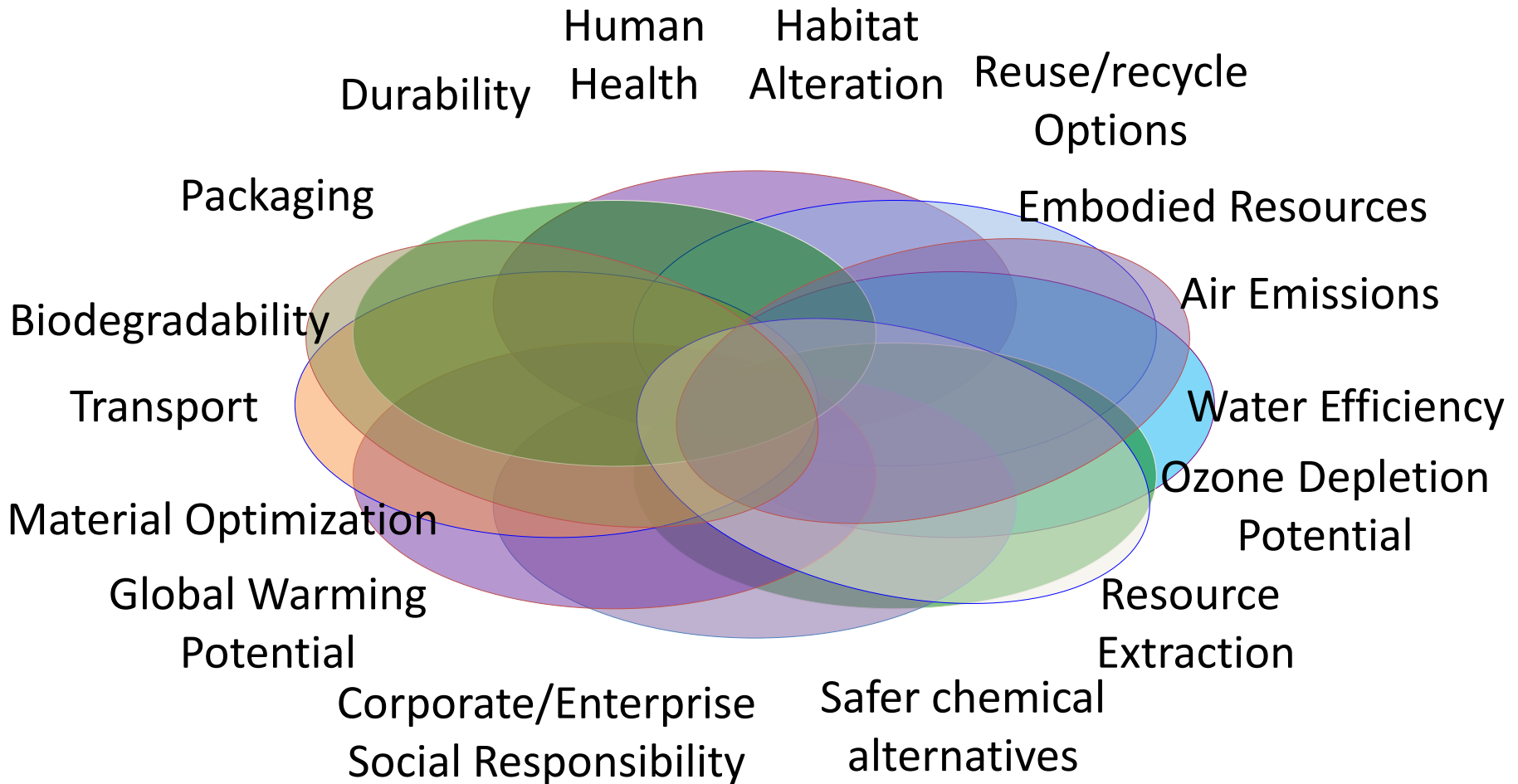


Executive Order 13514 says:

- “ advance sustainable acquisition to ensure that 95 percent of new contract actions including task and delivery orders, for products and services with the exception of acquisition of weapon systems, are energy-efficient (Energy Star or Federal Energy Management Program (FEMP) designated), water-efficient, biobased, environmentally preferable (e.g., Electronic Product Environmental Assessment Tool (EPEAT) certified), non-ozone depleting, contain recycled content, or are non-toxic or less toxic alternatives, where such products and services meet agency performance requirements”;

What makes a purchase “environmentally preferable”?

"Environmentally preferable" is defined in the EO as products or services that "have a lesser or reduced effect on human health and the environment when compared with competing products or services that serve the same purpose. This comparison may consider raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance or disposal of the product or service."



HOW ARE WE DOING?

Status of Environmentally Preferable
Purchasing in the Federal Community



EPP Evaluation

- Funded and managed by EPA in partnership with FAI
- Addressed 3 key areas:
 - Awareness and use of EPP by federal purchasers
 - Impact of EPP on federal purchasing
 - Spill-over effect on non-federal purchasing
- Key Data sources:
 - Survey of 140k federal purchasers
 - Agency purchasing data
 - Interviews with government and non-government personnel



Major Findings and Recommendations

- Awareness and acceptance of EPP among federal purchasers has grown since 2001 survey
 - 2012 survey shows that a strong majority (>80%) of purchasers have somewhat or very positive views toward EPP; only 6-8% have negative views
- Green purchasing has increased substantially across the board
 - Product quality, a big issue in 2001, is no longer a concern
 - Environmental factors are a consideration, but not yet a high priority among many purchasers
- Lack of clarity on what is "green" remains a barrier to purchasing greener products and services



Major Findings and Recommendations

- Actual purchasing data is very hard to come by
- Better purchasing data is a "critical need"
- When purchasing and environmental data is available, results of green purchasing are impressive (EPEAT)

HOW TO PROCURE GREENER ELECTRONICS



Federal Green Purchasing Requirements for Electronics

- Federal Acquisition Regulation (FAR) Part 23
 - Requires acquisition of “environmentally preferable” products and services (e.g. EPEAT), ENERGY STAR, and FEMP
- Executive Order 13514
 - Requires “sustainable acquisition” including EPEAT, ENERGY STAR and FEMP
- Executive Order 13221
 - Requires acquisition of electronics with low standby power
- EPA Act 2005, EISA 2007
 - Requires acquisition of ENERGY STAR and FEMP



Feds Required to Buy EPEAT Registered Products

- Executive Orders 13514 and 13423
 - Require purchase and lease of EPEAT® registered electronics under both sustainable acquisition and electronics stewardship goals
 - Must achieve a 95% acquisition rate
- Federal Acquisition Regulation (FAR) Part 23
 - Requires acquisition of EPEAT® registered electronics
 - Must achieve a 95% acquisition rate
 - Contracting clause requires acquisition of Bronze registered products, alternate clause for Silver or higher



What is EPEAT®?

- The Electronic Product Environmental Assessment Tool (EPEAT)
- A system to help purchasers evaluate, compare and select electronic products based on their environmental attributes
- A system to enable manufacturers to obtain market recognition through achievement of specific performance criteria in electronic product design and sales
- Not an EPA Program



What is EPEAT?

- Set of voluntary performance criteria that define required and optional environmental attributes for electronic products
- System for listing products that meet the performance criteria
- Method for verifying that listed products have achieved specified performance criteria

What Products Does EPEAT Cover?

Currently:

Computer Desktops, Laptops, and Monitors

Imaging equipment: (Printers, Copiers, Multi-Function Devices, Scanners, Fax Machines,

Digital Duplicators, Mailing Machines)

Televisions

Up next:

Servers

Mobile devices





How are Standards EPEAT Uses Created?

- Developed through ANSI accredited Standard Development Organizations
- Open, consensus based process used
- Active participation from manufacturers, suppliers, recyclers, academics, government representatives, purchasers, and environmental advocacy organizations



EPEAT Tiers



EPEAT Bronze

- Meets all 23 mandatory criteria



EPEAT Silver

- Meets all mandatory criteria and at least 50% of the optional criteria



EPEAT Gold

- Meets all mandatory criteria and at least 75% of the optional criteria

Representative Purchaser Users

- **National Governments** US, 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), WSCA and US Communities collaboratives
- **Cities** San Francisco, Phoenix, San Jose, Vancouver, Seattle, Portland OR, LA County, Culver City CA, Keene NH, Leeds, UK
- **Enterprise** Catholic Healthcare West, Charles Schwab, Deutsche Bank, Fairmount Hotels, Ford Motor Company, HDR, HSBC, Kaiser Permanente, KPMG, Marriott, McKesson, Microsoft, NBC-Universal, Nike, Saint Gobain, Societe Generale
- **Colleges/Universities** Of 300+ universities and colleges surveyed, 190 used EPEAT in their electronics purchasing decisions; of those, 70 purchased exclusively EPEAT-registered products.

EPEAT Estimated Environmental Benefits – Worldwide, 2011

Metric	Reduction	Equivalents
Electricity	12 million megawatt hours	Annual electricity use of 963,716 average US households
Primary Materials	4.4 million metric tons	The weight of 14 Empire State Buildings
Air Emissions (incl. GHG)	9 million metric tons	
Greenhouse Gas Emissions	2.2 million MTCE*	Taking 1.6 million average US passenger cars off the road for a year
Water Emissions	16,000 metric tons	
Toxic Materials (incl Hg)	1,381 metric tons	Weight of 266 elephants, including Hg to fill 1,007,761 fever thermometers
Solid Waste	50,976 metric tons	76,262 US households' annual solid waste
Hazardous Waste	74,082 metric tons	The weight of 7 Eiffel Towers



EPEAT Expanded to Cover TVs and Imaging Equipment

- IEEE 1680.2 Standard for the Environmental Assessment of Imaging Equipment and the IEEE 1680.3 Standard for the Environmental Assessment of Televisions both were approved as final IEEE standards on August 30th, 2012
- The final standards are now available at:
<http://grouper.ieee.org/groups/1680/EASC/>
- Imaging equipment products were added to the Registry on January 29th, 2013.
- Televisions were added to the EPEAT Product Registry March 3, 2013



What is Greener About Products Meeting these Standards?

- Products must meet several required criteria for:
 - Energy Conservation (Energy Star, FEMP)
 - Environmentally Sensitive Materials
 - Materials Selection
 - Design for End of Life
 - Product Longevity/Life Cycle Extension
 - Packaging
 - Corporate Performance
 - End of Life Management
 - IE Products – Consumables, Indoor Air Quality
- Products can also meet more stringent optional criteria in each of these categories



When Do I Need to Start Buying EPEAT Registered Imaging Equipment and Televisions?

- Short answer – now!
- May 31st, 2013 – Memo issued by OMB’s Office of Federal Procurement Policy and CEQ’s Office of the Federal Environmental Executive directing agencies to begin procuring EPEAT registered imaging equipment and televisions
- The memo states that “While the FAR is in the process of being updated, agencies should begin purchasing, as appropriate, EPEAT certified products for these two new categories, which can be found on the EPEAT Product Registry at www.epeat.net.”
- Agencies’ OMB Energy and Sustainability Scorecard scores will be impacted by progress towards meeting this requirement as early as January 2014

New EPEAT Products Covered*

- Imaging Equipment (IE)
 - Printers
 - Copiers
 - Scanners
 - Facsimile Machines
 - Multifunction devices
 - Digital duplicators
 - Mailing machines
- Televisions (TVs)
 - Any display sold primarily as a “television” (size 15 inches and up)
 - Includes CRT, LCD, LED, and plasma televisions

** Product coverage is harmonized with ENERGY STAR® categories*



Product Availability as of July 15th, 2013

- Imaging Equipment:
 - 420 EPEAT registered imaging equipment products
 - Manufactured by: Canon, Dell, Epson, Fujitsu Limited, HP, Konica Minolta, Lexmark, Ricoh, Samsung, Xerox
 - Over 80 % of the imaging equipment market represented
- Televisions
 - 125 EPEAT registered televisions
 - Manufactured by: LG, Samsung
 - Over 40 % of the television market represented
- No known price differential for these products
- If you don't see a product on the Registry that you want to procure, let your vendors know!



Finding EPEAT Registered IE and TV Products

- Find on the EPEAT Registry: www.epeat.net
- Procure registered products via:
 - GSA multiple award schedules (36, 58, 67, and 70)
 - GSA Federal Strategic Sourcing Initiative (FSSI) Office Supplies 2 BPA
 - GSA FSSI Print Management Services BPA
 - DOD Email
 - NASA SEWP
 - NIH NITAC BPA
 - Ask your Agency IT department if your Agency IT hardware contract offers EPEAT registered IE and TVs
- Specify you want EPEAT registered products in all Task Orders!!

Using Existing Contracts

- If your contract includes language on purchasing EPEAT registered IE and TVs when they become available
 - You should be able to buy EPEAT registered!
 - May need to specify EPEAT registered in task or delivery orders
- If your contract requires Silver or Gold registered products:
 - Check to ensure that enough Silver and Gold registered products are available on the Registry to meet this requirement
- If your contract does not include language on purchasing EPEAT registered IE and TVs
 - You may still be able to buy EPEAT registered
 - Check if you can specify EPEAT registered products in task or delivery orders
 - Check if you can add EPEAT registration requirements in upcoming technology refreshes or contract modifications



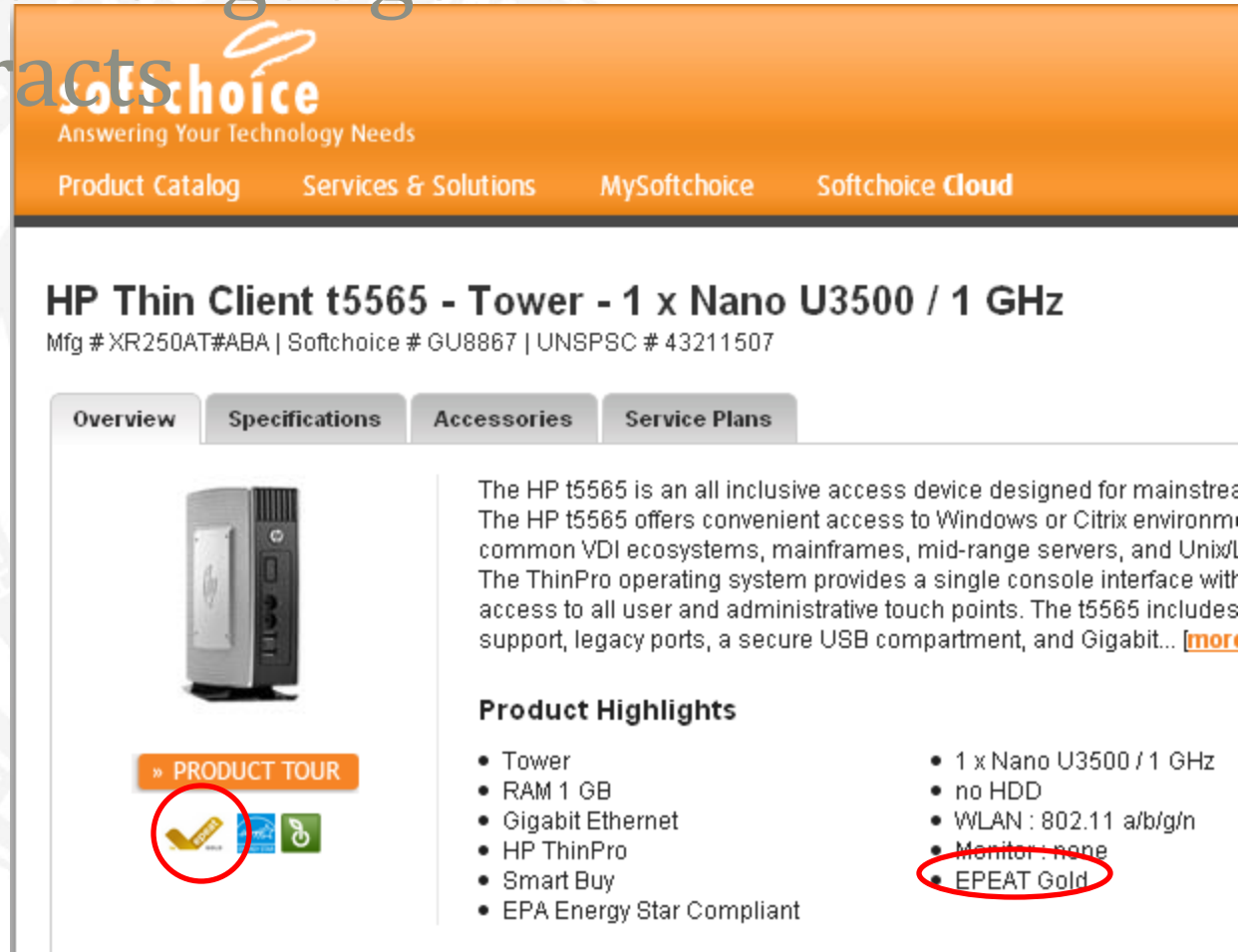
Recommended Language for New Contracts

- “Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for contractor use at a federally controlled facility, only imaging equipment and/or televisions 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.”

Recommended Language for New Contracts

- “Suppliers are required to block non-EPEAT registered products on their electronic catalogs that customers may buy from through this contract”.



Softchoice
Answering Your Technology Needs

Product Catalog Services & Solutions MySoftchoice Softchoice Cloud

HP Thin Client t5565 - Tower - 1 x Nano U3500 / 1 GHz

Mfg # XR250AT#ABA | Softchoice # GU8867 | UNSPSC # 43211507

Overview Specifications Accessories Service Plans

The HP t5565 is an all inclusive access device designed for mainstream... The HP t5565 offers convenient access to Windows or Citrix environments... common VDI ecosystems, mainframes, mid-range servers, and Unix/Linux. The ThinPro operating system provides a single console interface with access to all user and administrative touch points. The t5565 includes support, legacy ports, a secure USB compartment, and Gigabit... [more](#)

Product Highlights

- Tower
- RAM 1 GB
- Gigabit Ethernet
- HP ThinPro
- Smart Buy
- EPA Energy Star Compliant
- 1 x Nano U3500 / 1 GHz
- no HDD
- WLAN : 802.11 a/b/g/n
- Monitor : none
- **EPEAT Gold**



Reporting Requirements Related to EPEAT

- All agencies are required to report to OMB on their procurement of EPEAT registered products as part of the Federal Energy and Sustainability Scorecard
- Agencies must share:
 - a. FY 12 IT contracts include EPEAT clauses? (Yes/NO, if not, indicate when to be completed):
 - b. Indicate % of EPEAT products purchased in FY 2012 Agency-wide:
 - i. Number EPEAT Monitors purchased:
 - ii. Number non-EPEAT Monitors purchased:
 - iii. **% EPEAT Monitors Purchased:**
 - iv. Number EPEAT PCs purchased:
 - v. Number non-EPEAT PCs purchased:
 - vi. **% EPEAT PCs purchased:**
 - vii. Number EPEAT Laptops purchased:
 - viii. Number non-EPEAT Laptops purchased:
 - ix. **% EPEAT Laptops purchased:**



Reporting Related to EPEAT Expansion

- OFEE and OMB have not finalized the questions related to EPEAT registered IE and TV products
- Will most likely mirror questions for computers
- May use sample products to reduce reporting burden
- Final guidance will be shared via the Federal Electronics Stewardship Work Group



Recommended Language for New Contracts

- “Suppliers are required to provide quarterly reports quantifying the number of EPEAT registered products purchased 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

EXAMPLE



Double Sided Copying

- E013514 requires Feds to do double sided copying (duplexing) to save money and reduce environmental impact
- Require that all imaging equipment is shipped with duplexing function set as the default
- Discuss with your IT operations staff the need to retain the duplexing function during installation of new equipment
- Ensure duplexing function installed on computers you are printing from



Need Further Assistance?

- Holly Elwood, EPA
 - elwood.holly@epa.gov
 - 202-564-8854
 - www.epa.gov/epeat
- Federal Electronics Challenge (FEC) Program provides assistance to federal facilities to improve environmental stewardship of our electronics. FEC Partners can email questions or requests for technical assistance to fec@epa.gov