



EPA, **FEC** and **GREEN IT!**

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OEI/OTOP/EDSD/DCSB
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Electronics



Desktops/Laptops



Printers



Copiers



Toner cartridges



Fax machines



Scanners



Cell and PDAs

GREENING Electronics at EPA...

- November 15, 2004 - The signing of a Memorandum of Understanding (MOU) entitled *Promoting Sustainable Environmental Stewardship of Federal Electronic Assets* with the Executive Office of the President and twelve federal agencies.
 - Signatories represented 80% of the IT Federal Budget
- Numerous EPA offices volunteered to work cooperatively and individually to implement the spirit of that MOU, as well as to participate in the [Federal Electronics Challenge \(FEC\)](#).
- EPA used the [FEC](#) program as a framework to assist its numerous facilities in meeting the goals of the MOU.

What is the FEC?

- A voluntary partnership program that supports Federal Agencies in reducing the environmental impacts of their electronics purchases, use, and disposal.
 - **Purchase greener electronic products.**
 - **Reduce impacts of electronic products during use.**
 - **Manage obsolete electronics in an environmentally safe way**
- The **FEC** can also help agencies meet OMB Scorecard criteria by providing tools to manage electronics in an environmentally sound manner

FEC Membership Statistics

- There were a total of 16 Agency Partners and 185 Facility Partners on 5/13/2008.
- There are a total of 635,556 employees for the Facility Partners.

Going Gold with the Help of the **FEC**

Example:

One office, Office of Environmental Information, where EPA's Chief Information Officer (CIO) and Chief Technology Officer (CTO) are located, conducted a cost analysis and determined it was more efficient to lease instead of purchase.

Formed a **FEC/green** team of 5 with folks with knowledge and/or expertise in IT, Acquisition, Property and Management.

Established a Baseline Asset Inventory quantifying our sources of electronic waste and identifying current electronics practices in purchase, operations & management, and end-of-life.

Going Gold with the Help of the FEC

- Used the goals set by the FEC to green the 3 life cycle phases mentioned above --(as of 2008 it is no longer required to submit separate goals as a partner of the FEC since the FEC goals aligned with the E.O.) E.O. 13423 are the goals to follow.
- Developed a work plan with measurable targets to accomplish the goals of OEI's Electronic Stewardship effort
- Established FEC monthly meetings to brainstorm new ideas of how to Green electronics and share what is happening at the facility level
- Announced to staff about the plan and solicited interested volunteers to join

Going Gold with the Help of the **FEC**

- Implemented our work plan ensuring progress by setting deadlines and assigning tasks, using all the resources and tools available on the **FEC** website.
- Submitted our **FEC** annual progress report – using the original Baseline survey to track our progress
- And finally applied and won the **FEC** GOLD Award in 2006 for superior electronics stewardship achievements.

- On January 24, 2007, President George W. Bush signed Executive Order (E.O.) 13423, *aq* accordance with Section 4(b) of the order, the Council on Environmental Quality (CEQ) issued the first set of Implementation Instructions and Requirements for the E.O. on March 29, 2007. The instructions provide additional detail and direction, are considered mandatory, and implementation of them is expected as part of complying with this Order.

- April 2007 – The Agency Electronic Stewardship Implementation Plan (ESP).
 - (Revised Annually)
 - To produce significant agency achievements in Greening all 3 life-cycle phases of our electronics.
 - Signed by authorities in Administration, Acquisition, and Technology and Operations.
 - EPA will use the [FEC framework](#) in conjunction with the Agency ESP to meet the goals of the Executive Order 13423.

Actions Completed

Action Item	Lead EPA Organization	Timeframe Completed
Facilitate signing of Implementation Plan by the Agency Environmental Executive (OFEE) and CIO/OA	OTOP	2 ND QTR FY07
Educate purchasers on buying green through the computer BPAs	OAM	4 th QTR FY07
Coordinate with vendors awarded electronics BPAs to conduct outreach on buying green equipment	OAM	4 th QTR FY07
Update purchase card manual to provide guidance on requirements for environmentally preferable electronics	OAM	4 th QTR FY07
Designate an EPA representative to the Federal Electronics Stewardship Workgroup	OEI	4 th Qtr FY07

Actions Completed

Action Item	Lead EPA Organization	Timeframe Completed
Insert EPEAT language into new IT acquisition and lease contracts	OAM	4 th QTR FY07
Develop a guidance sheet on incorporating EPEAT into contracts, as well as sample language that can be used in IT support contracts	OAM	4 th QTR FY07
Update purchase card manual to provide guidance on requirements for environmentally preferable electronics	OAM	4 th QTR FY07
Coordinate with vendors awarded electronics BPAs to conduct outreach on buying green equipment	OAM	4 th QTR FY07

FESWG

- The **FEC** @ EPA Workgroup has convened regularly since April 2006 to advance the goals of the electronics stewardship MOU and the FEC program within EPA.
- The workgroup will now focus on meeting the electronics stewardship goals of E.O. 13423, while simultaneously bolstering EPA participation in the **FEC** program as one mechanism for attaining those goals.



April 2008 Memo from Agency CIO announcing recommended EPA guidelines...

1. Turn off your computer when you leave at the end of the day.
2. *You will be told if you need to leave it on to receive any urgent software or network updates, including system patches.*
3. Only print when necessary and print double-sided to reduce ink and paper waste. *Select the “Print on Both Sides” option under Printer Properties when sending a document to print.*
4. Check to see if the sleep feature is enabled on your computer.
5. Conserve network resources by lessening your impact on the Agency network.



EPA/OEI's New Green IT Website

- To find all EPA (and partnership) green initiatives using 1 resource please visit:
 - www.epa.gov/greenit
 - A Green Tips podcast that discusses how to make your information technology more green (<http://www.epa.gov/earthday/podcasts/>)
 - A Green Scene video and podcast featuring Molly talking about the National Access to Information, and a reference to our new EPA Green IT Web site (www.epa.gov/greenit), and
 - A newly launched EPA blog called Greenversations (<http://blog.epa.gov/blog/>)



Green IT



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Green information technology, or Green IT, brings environmental thinking to the world of information technology. EPA encourages you to consider how the environment may be affected by your IT-related decisions. Find out what types of IT products are made using environmentally-friendly processes. Learn how to make the IT you have more energy efficient. Discover how to recycle your old IT equipment. By embracing EPA's environmentally-friendly programs for information technology, you can:

- reduce unnecessary energy use and your carbon footprint while saving money;
- select technologies that are environmentally preferable, and
- recycle your unwanted equipment to conserve natural resources.

The following are the overarching areas of Green IT:

- [Designing Green IT](#)
- [Buying Green IT](#)
- [Using Green IT](#)
- [Reusing, Recycling, and Disposing](#)



Designing Green IT

The [Design for the Environment](#) program has engaged with leaders in the electronics industry to explore current practices and potentially safer alternatives in various areas. EPA works in partnership with a broad range of stakeholders to inform substitution to safer chemicals in such areas as:

- [Computer displays](#)
- [Lead-free solder](#)
- [Flame retardants in printed circuit boards](#)
- [Printed wiring board](#)

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Buying Green IT

[ENERGY STAR](#) is a joint program of EPA and the Department of Energy to help us save money and protect the environment through energy efficient products and practices. We offer solutions by adding the trustworthy ENERGY STAR label on over 50 product categories for the home and office, including information technology:

- [computers](#)
- [monitors](#)
- [printers, scanners and all-in-ones \(imaging products\)](#)

[Environmentally Preferable Purchasing \(EPP\)](#) can help green vendors, businesses large and small -- and consumers, to find and evaluate information about green products and services such as [electronics](#) and calculate the costs and benefits of their choices.

Earth Days 2007 & 2008

- 2007-Collected 43 tons of personal home electronics in April 2007 from the Metropolitan area
 - Serviced more than 528 cars, walk-ups, and bike-ups
 - Collected 43 tons of computer equipment, including more than: 400 printers, 174 computers, and 931 monitors & 1000 keyboards, mice and peripherals
 - More than 85 volunteers from EPA and the community
 - Event covered by CBS, NBC and National news
- April 20, 2008-Collected 24 tons at the eCycling event that OEI hosted
 - Serviced more than 375 cars, walk-ups, and bike-ups
 - Collected 24 tons of computer equipment, or enough to fill two 53-foot tractor trailers, including more than: 225 printer, 60 laptops, 325 computers, and 540 monitors.
 - More than 115 volunteers from EPA and the community

- 2008 - OFEE recognizes the EPA with an Agency award for their assistance with the transition to the new FEC partnership structure.

What's Next to Accomplish!

- The Electronic Recycle, Reuse Campaign (ERRC), now over half-way through, has already hit the 1 million pounds recycled/reused mark!
 - We're well on our way to beating last year's totals!
 - Keep going **GREEN!**

Seat Management @ EPA

- 8 year IT desktop hardware and support services contract to support 12,000 users nationwide.
 1. Employs a full life-cycle approach to electronic devices from purchase to asset recovery.
 2. Allows the Agency to achieve significant dollar and energy savings, minimizing the impact on the environment through active management of the latest technology, device standardization, and service consolidation.
 3. Assures EPA's leadership role in Environmental Stewardship

Seat Management @ EPA

- Equipment supplied under this vehicle will be:
 - 80% Gold EPEAT Rated laptops, desktops, & monitors (the highest rating under the Electronic Product Environmental Assessment Tool (EPEAT) www.epeat.gov)
 - 20% Silver EPEAT Rated laptops, desktops, & monitors (the highest rating under the Electronic Product Environmental Assessment Tool (EPEAT))
 - Creating a reduced energy consumption of 77.6 million kilowatt hours over the lifetime of the contract and an energy savings of more than 6.4 million dollars!

Seat Management @ EPA

- Removing 64,000 tons of carbon dioxide emissions over 8 years, equal to removing 11,000 cars from the road using 6.8 million gallons of gasoline, electricity used by 8,000 homes, & avoiding almost 21,000 tons of landfill waste emitting greenhouse gases
 - All network printers are set for duplex
 - All equipment is Energy Star Enabled
- This contract adheres to all Agency Recycling Electronic Asset Disposition (READ) policy and guidelines

Helpful Resources

- To Join the FEC or review Sample Policy for a 4-year PC refresh cycle and many other useful electronics related documents please visit:
 - <http://www.federalelectronicschallenge.net/resources/>
- Electronic Product Environmental Assessment Tool (EPEAT) – use it to find the **Greenest**, Energy Star qualified 4.0, approved computers and monitors for meeting lower energy consumption acquisition requirements
 - www.epeat.net
- **Energy Star Website** for training and information on best practices
 - www.energystar.gov/

Helpful Resources

- READ GWAC to address End-of-Life cycle electronics recycling. Including CFL with GSA for donation & reuse
 - <http://www.epa.gov/oam/read>
- Federal Center website for training and more resources for EO 13423 and the EMS guidelines
 - www.fedcenter.gov
- Office of the Environmental Executive (OFEE) for EO 13423 guidance
 - http://ofee.gov/eo/eo13423_main.asp

QUESTIONS ?

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