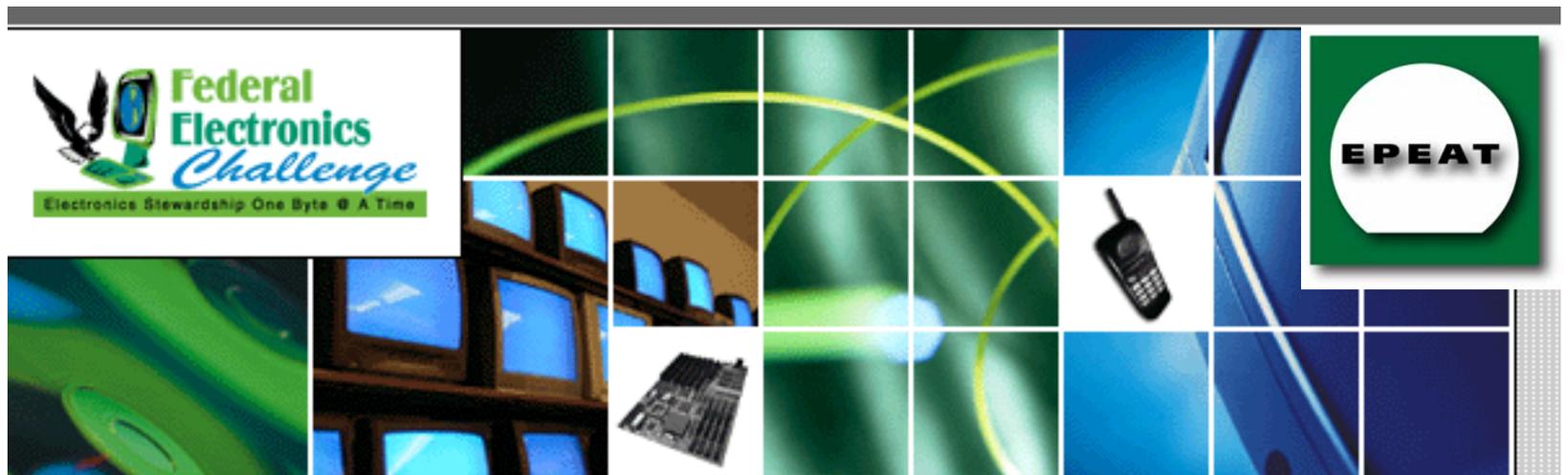


U.S. EPA Region 8 EPEAT Case Study

Federal Environmental Symposium
June 17, 2008



Overview

- R8 Strategy
- Challenges
- Tools
- Lessons Learned



Region 8 EPA...In The Beginning

- “Bigger is Better” “More Power” “More Devices”
- Planning based on technical and performance needs
- IT controlled the decision process
- Then we moved to a new building (Jan '07)

Tools: Executive Order 13423

(Strengthening Federal Environmental, Energy, and Transportation Management)

- Federal agencies use environmentally sound, integrated, efficient, and sustainable practices
- Purchase electronic products that meet at least 95% (EPEAT)-registration, unless there is no EPEAT standard for such product
- Enable Energy Star features
- Establish and implement policies to extend the useful life of agency electronic equipment; and
- Reuse, donate, sell or recycle 100% of electronic products using environmentally sound management practices.



Tools - Why EPEAT[®] ?



- EPEAT is key aspect Executive Order 13423
- Promote product design changes that reduce environmental and health impact of electronics throughout the life cycle
- Growing demand by institutional purchasers for easy to use tool to compare and select “green” products
- Manufacturers’ need for clear, consistent procurement criteria



Tools

- We use the Agency-wide Dell Blanket Purchase Agreement
- Internal IT office Electronics Stewardship Standard Operating Procedures
- Region 8 Standards for Personal Computers & Printers
- Product Environmental Information Sheets

Tools: Electronics Environmental Benefits Calculator

- Use it to build momentum for internal support of FEC & EPEAT:
 - Energy Savings
 - Greenhouse Gas Reductions
 - Water Emissions
 - Cost Savings

Challenges

- Impending building move
- Addressing perceived fears/myths of environmental stewardship and performance
- Adding new procedures in IT procurement process
- Establishing measurement systems to track EPEAT purchases and power management
- Enabling Energy Star features on PCs, monitors, printers, and laptops
- Incorporating EPEAT language into procurement vehicles
- Culture change - changes in IT processes and the user environment

Examples of Our Electronic Stewardship Activities

- EPEAT and/or Eco-Label registered desktops, laptops, printers
- Reduced network printer fleet from 144 to 52
- Dual-sided printing set as defaults for all network printers
- Potential toner emissions and vendor provided recycling were a purchasing factor
- Packaging take-back arranged when possible



FEC Gold Accomplishments in Region 8

- We completed mandatory activities in three different electronics lifecycle phases:
 - a. Acquisition and Procurement
 - b. Operation and Maintenance
 - c. End-of-Life
 - d. completed nine optional activities including mentoring other federal facilities.
- Established guidance for the purchase of environmentally preferable electronics including the requirement of EPEAT-registered electronics.
- Track the implementation of power management. Include a measure for tracking the enabling and management of ENERGY STAR® features.
- Addressed electronic stewardship in Regional EMS



FEC Gold Accomplishments in Region 8

- **Electronic Lifecycle Management:**
 - We reused an average of 44% of our electronic equipment at the end of its first life.
 - Obsolete electronics equipment were recycled using a local electronics recycler.
 - A physical on-site review of the recycler was conducted to ensure responsible recycling practices.
 - We implemented an employee personal computer collection/recycling program - collected 10,158 pounds of employee electronics, or 14.3 pounds per employee.

Results of 2007 FEC Activities in Region 8*

- **Energy savings** - 1,740,000kWh - equiv. of enough electricity to power 154 US households in a year.
- **Greenhouse Gas Reduction** - 136,000kg - equiv. to removing 108 passenger cars from the road per year.
- **Solid Waste Reduction** - 7,240kg - equiv. to the solid waste generated by 3.75 US households in a year.
- **Primary materials savings** - 1,710,000kg - equiv. to the weight of 13,266 refrigerators.
- **Haz. Waste Reduction** - 1,190kg - equiv. to the weight of 595 bricks.
- **Air emissions** - 7,140,000kg - (7143 metric tons of air emissions)
- **Water emissions** - 15,000kg - (15 metric tons of water emissions)
- **Cost savings** - \$116,000.00

*Based on Electronics Environmental Benefits Calculator

Lessons Learned

- We demonstrated real cost savings and environmental benefits in a fairly short time period
- Changes don't happen overnight
- Create collaborative partnerships with IT, Finance, Business Customers, Vendors, etc
- Challenge the business culture and current processes
- Green IT does not appear have a negative impact on cost, quality, or service
- Look for creative ways to implement EPEAT
- Build on quick wins & small successes
- Use the FEC tools and resources that are available.

Region 8 EPA...Outlook for 2009

- Continue collaborative process of including EPEAT in our procurement vehicles – more permanent solution to IT Liaisons.
- Continue providing training for other program procurement representatives on EPEAT.
- Develop and maintain a better system for tracking the procurement of EPEAT-registered products.
- Require vendors to take back all electronic product packaging or specify EPEAT-registered products that meet optional criteria for packaging take-back.

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