

Measurement and Reporting of Electronics Stewardship Activities

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Challenge (FEC) Partner
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Disclaimer

- The information in this presentation is not official guidance of the Office of Management and Budget, the Office of the Federal Environmental Executive, the Environmental Protection Agency, or the Federal Electronics Stewardship Working Group
- The guidance in this presentation **does not** supersede any federal agency's policies, procedures, guidance, or requirements with respect to tracking and reporting of electronic stewardship activities
- FEC Partners should always follow the tracking and reporting requirements and guidelines of their federal agency

Required Electronics Stewardship

- Executive Order 13514
 - Section 2(i)
- Executive Order 13423, Implementing Instructions
 - Section 2(h)
- Office of Management and Budget (OMB) Environmental Stewardship Scorecard
 - Electronics stewardship goals
- Agency Electronics Stewardship Plans

Reporting Electronics Stewardship

- Agency requirements
 - Office of Management and Budget Environmental Stewardship Scorecard
 - Electronics Stewardship Plan
- Facility requirements
 - Environmental Management System (EMS)
- FEC requirements
 - Annual reporting form
 - Award applications

Executive Order 13514

Electronics Acquisition and Procurement

- Each agency shall promote electronics stewardship by:
 - Ensuring procurement preference for EPEAT-registered electronic products
 - Ensuring the procurement of Energy Star and FEMP designated electronic equipment



The EPEAT® Goal

- Activity:
 - Acquisition of electronic products
- Goal:
 - 95% of all applicable purchases, leases, and asset management provisions must be of Electronic Product Environmental Assessment Tool (EPEAT)-registered equipment
- Applies to:
 - All electronic equipment with an EPEAT/IEEE standard
 - Desktops, notebooks, displays
 - Imaging equipment, televisions coming soon

Measuring the EPEAT Goal

- Require vendors to report registration status of all acquisitions
 - FEC and EPEAT recommend quarterly reports
- See recommended contract language
 - Desktops, notebooks, displays:
http://www.federalelectronicschallenge.net/resources/docs/epeat_contract.pdf
 - Imaging equipment, televisions:
http://www.federalelectronicschallenge.net/resources/docs/epeat_contract_ietv.pdf

Measuring the EPEAT Goal

- Add and/or utilize an EPEAT registration data field in your facility's property and/or asset registration, tracking, or management system
- Use contract vehicles that prevent the acquisition of non-registered electronic products
- *Confirm EPEAT registration status at date of purchase*

Reporting the EPEAT Goal

- Data on the EPEAT registration status of all acquisitions of eligible electronic products
- Copies of policy and/or contract documents requiring the acquisition of EPEAT-registered electronic products



Reporting the EPEAT Goal

	Gold	Silver	Bronze	Unregistered*
Desktops (including Integrated Desktop Computers, Thin Clients, Workstation Desktops)				
Notebooks (including Workstation Notebooks)				
LCD Displays				
CRT Displays				

** Unregistered products can only make up 5% of total purchases*

Reporting the EPEAT Goal

	Gold	Silver	Bronze	Unregistered*
Printers				
Copiers				
Fax machines				
Scanners				
Multifunction devices				
Televisions				

** All product purchases in FY2010 are likely to be unregistered.*

The ENERGY STAR and FEMP Goal

- Activity:
 - Acquisition of electronic products
- Goal:
 - 100% of all applicable purchases, leases, and seat management provisions must be ENERGY STAR qualified and/or FEMP designated
- Applies to:
 - All electronic equipment with an ENERGY STAR specification or FEMP designation
 - 15+ product categories

Measuring the ENERGY STAR and FEMP Goal

- Similar to measuring the EPEAT goal
 - Vendor reporting
 - Property tracking systems
 - Contract requirements
- *Due to the large number of product categories, measurement of indicator products may be sufficient*

Reporting the ENERGY STAR and FEMP Goal

- Data on the ENERGY STAR qualification and FEMP designation status of all acquisitions of eligible electronic products
- Copies of policy and/or contract documents requiring the acquisition of ENERGY STAR qualified and FEMP designated electronic products

Executive Order 13514

Electronics Operation and Maintenance

- Each agency shall promote electronics stewardship by:
 - establishing and implementing policies to enable power management, duplex printing, and other energy-efficient or environmentally preferable features on all eligible agency electronic products



The Power Management Goal

- Activity:
 - Enable power management features
- Goal:
 - 100% enabling of eligible electronic products
- Applies to:
 - Eligible electronic products
 - Desktops, notebooks, displays
 - Non-exempt products

Measuring the Power Management Goal

- Utilize software programs that enable and/or report on power management settings
 - Free and commercial software solutions
- Manually enable and/or check power management settings
 - Record activation and verification activities in a log

Reporting the Power Management Goal

- Data on number of eligible products and percentage that are enabled
- Data on number of products that are exempt, description of reasons for exemption(s)
- Copies of policy documents requiring the enabling of power management features on electronic products

Reporting the Power Management Goal

	Number of Eligible Products	Number of Exempt Products*	Percentage of Eligible, Enabled Products
Desktops			
Notebooks			
LCD Monitors			
CRT Monitors			

* Exemption from power management requirements are provided for equipment running mission critical applications (i.e., security monitoring, air traffic control, uninterruptable laboratory experiments).

The Duplexing Goal

- Activity:
 - Enable duplex printing
- Goal:
 - 100% enabling of eligible electronic products
- Applies to:
 - Eligible electronic equipment
 - Imaging equipment that prints and is capable of duplexing
 - Desktop and notebook computers that send print jobs to imaging equipment

Measuring the Duplexing Goal

- Manually enable and/or duplex settings
 - Record activation and verification activities in a log
- Utilize software programs that enable and/or report on duplex settings
 - Free and commercial software solutions



Reporting the Duplexing Goal

- Data on number of eligible products and percentage that are enabled
- Data on number of products that are ineligible
- Copies of policy documents requiring the enabling of duplexing features on electronic products



Reporting the Duplexing Goal

	Number of Eligible Products	Number of Ineligible Products*	Percentage or Number of Eligible, Enabled Products
Computers (including desktops and notebooks)			
Imaging Equipment (including printers, copiers, fax machines, scanners, and multi-function devices)			

**Ineligible products include imaging equipment that can print but do not include duplexing capabilities.*

The Lifecycle Extension Goal

- Activity:
 - Extend the useful life of electronic equipment
- Goal:
 - Four or more years
- Applies to:
 - All electronic equipment

Measuring the Lifecycle Extension Goal

- Add and/or utilize entry and exit dates in your facility's property and/or asset registration, tracking, or management system
- Estimate lifecycle based on total inventory and annual replacement rates
 - 30% replacement rate each year leads to a three-year lifecycle
- Require four-year technology refreshes

Reporting the Lifecycle Extension Goal

- Data on the lowest, highest, and average lifecycle of indicator electronic products
- Copies of policy documents that require the extension of the useful life of electronic products
- Copies of contract documents with specific technology refresh rates

Reporting the Lifecycle Extension Goal

	Lowest Lifecycle*	Highest Lifecycle*	Average Lifecycle
Desktops			
Notebooks			
Displays			
Multifunction Devices			
Cellular Phones			

** Information on lowest and highest lifecycle may not be available.*

Executive Order 13514

Electronics End-of-Life Management

- Each agency shall promote electronics stewardship by:
 - Employing environmentally sound practices with respect to the agency's disposition of all agency excess or surplus electronic products



The Environmentally Sound Disposition Goal

- Activity:
 - Electronic product disposition
- Goal:
 - Using environmentally sound management practices for all electronics reuse, donation, sale, and recycling
- Applies to:
 - All electronic equipment

Measuring the Environmentally Sound Disposition Goal

- Add and/or utilize a disposition data field in your facility's property and/or asset registration, tracking, or management system
 - Consider adding or utilizing an internal user count
- Utilize other property disposition reports:
 - General Services Administration (GSA)
 - Defense Reutilization and Marketing Service (DRMS)
 - Computers for Learning (CFL)
- Keep records of due diligence activities

Reporting the Environmentally Sound Disposition Goal

- Data on the disposition of indicator electronic products
- Copies of policy and/or contract documents requiring the environmentally sound disposition of electronic products at end-of-life
- List of recyclers used
- Copies of due diligence documentation

Reporting the Environmentally Sound Disposition Goal

	Reused	Recycled	Sold	Disposed
Desktops (including Integrated Desktop Computers, Thin Clients, Workstation Desktops)				
Notebooks (including Workstation Notebooks)				
LCD Displays				
CRT Displays				

Reporting the Environmentally Sound Disposition Goal

	Reused	Recycled	Sold	Disposed
Printers				
Copiers				
Fax machines				
Scanners				
Multifunction devices				
Televisions				
Servers				
Cellular Phones				
Personal Digital Assistants (PDAs)				

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Servers and Data Centers

- Each agency shall promote electronics stewardship by:
 - Implementing best management practices for energy-efficient management of servers and Federal data centers



The Server and Data Center Goal

- Currently undefined!
- FEC recommends gathering data about your current data center practices
 - Work output
 - Energy and water input
 - Green practices being utilized
 - Audit outcomes

Converting Data into Environmental Benefits

- Electronic Environmental Benefits Calculator
 - <http://www.federalelectronicschallenge.net/resources/bencalc.htm>
- Using FEC Annual Reporting Form Data to Calculate Environmental Benefits:
 - http://www.federalelectronicschallenge.net/resources/docs/arf_eebc.pdf

Questions?



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