



## Implementing Electronics Stewardship at U.S. Department of Energy



### PURPOSE

The purpose of this Information Brief is to summarize information for Department of Energy (DOE) program and field elements, including DOE contractors on implementation of electronics stewardship at DOE sites and headquarters facilities. Electronics stewardship is the life-cycle environmental management of electronic assets, involving the acquisition of environmentally preferable electronics; operation and maintenance practices that maximize energy efficiency and extend the life of electronic assets; and the reuse and recycling of surplus and end-of-life electronics, respectively. The Information Brief serves as a one-stop resource for access to information on requirements, responsibilities, sustainable practices, performance reporting, and technical assistance for implementing electronic stewardship.

### APPLICABLE EXECUTIVE ORDER AND DOE ORDER

The Table below summarizes the Executive Order (E.O.) and DOE Order pertinent to electronics stewardship at DOE.

Order #	TITLE	DESCRIPTION
<a href="#">E.O. 13423</a>	Strengthening Federal Environmental, Energy, and Transportation Management (January 24, 2007)	The E.O. requires Federal agencies to: <ul style="list-style-type: none"> <li>• Purchase <a href="#">Electronic Product Environmental Assessment Tool</a> (EPEAT)-registered electronic products, unless there is no EPEAT standard for such product,</li> <li>• enable the <a href="#">ENERGY STAR</a> features on electronic assets (power management capabilities),</li> <li>• extend the useful life of electronic assets, and</li> <li>• use environmentally sound practices with respect to disposition of electronic assets that have reached the end of their useful life.</li> </ul>
<a href="#">Implementing Instructions</a>	Instructions for Implementing E.O. 13423 Strengthening Federal Environmental, Energy, and Transportation Management (March 2007)	The implementing instructions require Federal agencies to participate in the <a href="#">Federal Electronics Challenge (FEC)</a> , or otherwise implementing an equivalent electronics stewardship program that addresses the life-cycle management requirements summarized above, and guidelines.
<a href="#">DOE Order 450.1A</a>	Environmental Protection Program (June 4, 2008)	The DOE Order establishes: <ul style="list-style-type: none"> <li>• the reduction or elimination of the environmental impact of computer assets as a sustainable environmental stewardship goal;</li> <li>• the life-cycle environmental management activities described in E.O. 13423 and its implementation instructions as sustainable practices;</li> <li>• the development of electronics stewardship objectives and measurable targets in sites' Environmental Management System (EMS); and</li> <li>• the identification of funding and resources needed to</li> </ul>

Order #	TITLE	DESCRIPTION
		<p>implement the electronic stewardship sustainable practice and EMS objective and targets to achieve the electronic stewardship goal.</p> <p>A final overarching sustainable practice described in DOE O 450.1A is sites' participation as a Partner (where there is a programmatic benefit from doing so) in the FEC.</p>

## ENVIRONMENTALLY PREFERABLE PURCHASING

E.O. 13423 and its implementing instructions, and DOE Order 450.1A specify the acquisition environmentally preferable electronics, specifically, EPEAT-registered electronics. Currently, EPEAT-registered electronics include desktop computers, notebook computers, and monitors.

EPEAT is an [Institute of Electrical and Electronics Engineers \(IEEE\) \[standard IEEE 1680-2006\]](#) standard which provides a set of performance criteria for the design of computer products, and an opportunity for manufacturers to secure market recognition for efforts to reduce the environmental impact of its products. Computer products registered on EPEAT have been manufactured with less toxic and more recycled materials, are more energy efficient (ENERGY STAR qualified) and are easier to de-manufacture and recycle at end-of-life. Based upon 23 required criteria and 28 optional criteria, EPEAT evaluates and ranks computer products using three tiers of environmental performance: Bronze, Silver and Gold.

DOE O 450.1A establishes the purchase of EPEAT silver-rated computer products or higher (gold) as a sustainable practice and the use of EPEAT to identify other electronic products registered in the future by manufacturers as environmentally preferable. The EPEAT website includes a [Product Registry Database](#) that allows purchasers to search for EPEAT-registered products and review product-specific characteristics and information. As of August 2008, over 25 manufacturers have registered 776 different desktop computers, notebook computers, and monitors on EPEAT.

The Federal Acquisition Regulation (FAR) also requires the use of the EPEAT Product Registry and the IEEE 1680 Standard for the Environmental Assessment of Personal Computer Products in all solicitations and contracts for desktop computers, notebook computers and monitors ([72 FR 73215; Dec. 26, 2007](#)).

## OPERATIONS AND MAINTENANCE

As noted in the above section on environmentally preferable purchasing, in order to be included on the EPEAT product registry, a computer product must be ENERGY STAR certified. ENERGY STAR is a program that defines energy efficiency performance standards for a variety of products including desktop and laptop computers and computer monitors. DOE O 450.1A establishes enabling the power management capabilities (ENERGY STAR features) on desktop computers, notebooks, and monitors as a sustainable practice for computer products.

The second operations and maintenance-related sustainable practice established in DOE O 450.1A is extending the useful lifespan of computer systems to four (4) or more years. This can be done through software upgrades and use of the Environmental Protection Agency's (EPA) [Guidance to Improve the Operation of Electronic Products](#).

## REUSE AND RECYCLING OF SURPLUS ELECTRONICS

Reuse and environmentally responsible recycling of computer assets are the sustainable practices established in DOE O 450.1A for surplus and end-of-life electronics, respectively. Reuse-related sustainable practices listed in the Order include using the General Services Administration (GSA) Computers for Learning Program ([GSAXcess](#)) for transferring surplus computer assets to eligible schools, and inclusion of "take-back" provisions in IT contracts (procurement and lease), which obligate the vendor to take back surplus computer assets from DOE.

As detailed in DOE O 450.1A, recycling-related services deemed to be environmentally compliant for the disposition of end-of-life electronics are available through multiple sources, including:

- EPA's Recycling Electronics and Asset Disposition (READ) Services Government Wide Acquisition Contract ([www.epa.gov/oam/read/index.htm](http://www.epa.gov/oam/read/index.htm));
- Department of Justice UNICOR Electronic Recycling Program ([www.unicor.gov/recycling](http://www.unicor.gov/recycling));
- GSA's Federal Supply Service Multiple Award Schedule 899, Reclamation, Recycling and Disposal Services;
- recyclers who meet or exceed EPA's guidelines for safe electronics recycling ([www.epa.gov/plugin](http://www.epa.gov/plugin)); and
- recyclers who are members of one or more of the following professional associations: International Association of Electronic Recyclers, Institute of Scrap Recycling Industries, National Recycling Coalition and Electronic Industries Alliance.

### **TRACK, MEASURE, AND RECORD PROGRESS**

The [Pollution Prevention Tracking and Reporting System](#) (PPTRS) is the web-based, on-line mechanism for DOE sites and headquarters facilities to measure and report annual progress towards implementing the sustainable practices and achieving the sustainable environmental stewardship goals established in DOE O 450.1A, including those related to electronics stewardship. With regard to electronics stewardship, the PPTRS is used to collect information about purchases of EPEAT-registered desktop computers, notebooks, and monitors; disposition of surplus and end-of-life computer products; and whether power management capabilities are enabled and practices to extend the useful lifespan of computer systems are in-place. DOE uses the information entered into the PPTRS to prepare corporate reports detailing the Department's progress.

The performance of DOE and other Federal agencies in achieving sustainable practices and goals under E.O. 13423 is tracked by the Environmental Stewardship Scorecard prepared by the White House Office of Management and Budget (OMB). The Scorecard covers five environmental sustainability metrics areas, including electronics stewardship. The Scorecard employs a spotlight scoring system to track the progress and status of Departments and major Agencies in implementing E. O. requirements. DOE is currently the only Federal agency with "Green Status" for the electronics stewardship metric of the OMB Scorecard.

### **FEDERAL ELECTRONICS CHALLENGE**

An overarching sustainable practice described in DOE O 450.1A is site participation as a Facility Partner in the [FEC](#), a partnership program that encourages Federal facilities and agencies to purchase greener electronic products, reduce impacts of electronic products during use, and manage obsolete electronics in an environmentally safe way. Note that the [Instructions for Implementing Executive Order 13423](#) require Federal agencies to either participate in the FEC or an FEC-equivalent program. The FEC partners list at <https://db2.erg.com/fec/curpart.asp> currently includes 22 DOE sites.

### **RESOURCES AND CONTACTS FOR ASSISTANCE**

The DOE Office of Environmental Policy and Assistance is available to provide further information and support in electronics stewardship. Please contact Jeff Eagan, DOE Electronics Stewardship Coordinator, at (202) 586-4598 or [jeff.eagan@hq.doe.gov](mailto:jeff.eagan@hq.doe.gov) for resources and technical assistance on this topic. Specialized consulting on specific problems or issues in disposition, operations, and procurement will be provided upon request. On-site training for program implementation in electronics stewardship is also available.

*The Office of Environmental Policy and Assistance establishes environmental protection policy for DOE, and provides assistance to DOE elements on implementation of policy and resolution of compliance matters. Please refer any questions and requests for assistance concerning the subject material covered in this Information Notice to:*

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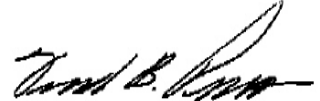
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