DOE and Green Computing:

The Department of Energy And Electronics Stewardship

Information Technology Industry Council
Environmental Coalition
April 23, 2008

Jeff Eagan
Office of Health, Safety and Security
Office of Environmental Policy and Assistance

DOE and Electronics: Background

DOE is fourth largest purchaser of electronics hardware + services among federal civilian agencies.

DOE has 40+ major sites doing world class science research, nuclear defense, energy security & environmental remediation programs.

DOE M&O contactors operate sites under federal oversight with high level of independence & decentralized purchasing. Directives must be incorporated into contracts. Not a command-and-control culture.

DOE jointly owns Energy Star program with EPA.

Goal: Become a Federal Leader in Electronics Stewardship

Strategies:

1) Dedicate Staff, Train Leadership, Be a Pioneer and Early Adopter.

2) Integrate EPEAT into Procurement Requirements.

3) Commitment to Best Practices Includes Energy Saving Operations and Environmentally Safe Disposition.

4) Seek Recognition for Achievement.

DOE Achievement in Electronics Stewardship

External and Internal Recognition:

- First Federal Agency to Achieve Electronics Stewardship 'Green Status' in OMB Environmental Scorecard

- First White House Closing the Circle Award Winner for Electronic Stewardship

- Two-time Agency Award Winner: White House Electronics Reuse and Recycling Campaign

- 21 Facility Electronics Stewardship Awards for FEC, ERRC: 2006-08

- 2008 DOE CIO Managerial Excellence Award

DOE Electronics Stewardship Leadership (Part 1)

- DOE signs MOU to join Federal Electronics Challenge (FEC) 11/04

- Dedicated staff assigned to Green Computing 2/05.

- Outreach and training: monthly agency environmental conference calls, property management conferences, IT conferences, meetings, newsletters, etc.

- DOE CIO memo encourages FEC participation and green purchasing, 6/05.

- HQ organizes Green Computing Team: environmental, IT, procurement, and property management staff Summer 2005.

- Twenty major DOE sites join FEC 2005-08, representing two-thirds of operations and personnel.

- Almost all DOE sites incorporate green electronics practices into Environmental Management Systems (EMS) 2007-08.

DOE Among Earliest EPEAT Adopters

- Revised Order 450.1 *Environmental Protection Program*, requires green computer purchasing, expresses preference for EPEAT-registered products, promotes integration of electronics stewardship (including purchasing) into EMS. 12/05.

- CIO procurement specifications make DOE Headquarters first major Federal facility to specify EPEAT computers and monitors: Winter 2005-06.

- DOE Procurement Acquisition Letter requests sites prepare to implement EPEAT Spring 2006 – three months before EPEAT roll-out.

- DOE purchases of >10,000 EPEAT certified computers in first 3 months of EPEAT operations exceed $10M.

DOE Greens IT Operations and Disposition

- Headquarters consolidates seventeen IT offices into a single centralized IT operation: 2005-07

- CIO encourages computer life extension: Average CPU age exceeds four years by 2007 .

- Secretarial "TEAM" Initiative to meet or exceed E.O. 13423 goals requires sites reduce computing energy use, including data centers: Fall 2007.

- Headquarters and other sites adopt facility power management controls: 2006-08.

DOE Tracks Procurement and Disposition

- DOE expands its Pollution Prevention Tracking and Recording System to include FEC annual reporting questions, including EPEAT purchasing and green disposition data: FY06.

- DOE becomes first federal department to accurately track both EPEAT procurement and green disposition of surplus computers for entire agency: FY07

- FY07 DOE results: 95% EPEAT purchasing, 98% reuse and recycling of surplus computers, demonstrating compliance with EO 13423 requirements for 2010.

New Goals For DOE and Green Computing

- Incorporate E.O.13423 electronics stewardship requirements into new revision of DOE Order 450.1 *Environmental Protection Program:* 5/2008.

- Maintain 'Green Status' in OMB Scorecard and comply with EO 13423 2010 requirements.

- DOE will strive to be first federal agency in total FEC Partnership, including all 40+ major sites: 2008-2009

Building A Federal Electronics Stewardship Program

- Actively participate in FEC and its resources: teleconferences, training, conference meetings.

- Seek Recognition and Awards from OFEE +FEC

- Request EPEAT training and technical assistance from Green Electronics Council, FEC, and EPA.

- Organize your cross-functional Electronic Stewardship Team to include procurement, property management, and IT leadership.

- Build Green Computing strategies into EMS.

- Be a pioneer and early adopter.

Contact Information

Jeff Eagan

DOE Electronics Stewardship Coordinator

Office of Environmental Policy and Assistance (HS-22)

(202) 586-4598

Jeff.Eagan@hq.doe.gov