

INTRODUCTION

Executive Order (E.O.) 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, was signed by President Bush on January 24, 2007. E.O. 13423 consolidates and strengthens five executive orders and two memorandums of understanding related to environmental, energy, and transportation performance and accountability. In particular, E.O. 13423 requires agencies to meet specific electronics stewardship goals.

The Council on Environmental Quality and Office of Management and Budget issued the Implementing Instructions for E.O. 13423 in March 2007. The Implementing Instructions require that all federal agencies and their facilities participate in the Federal Electronics Challenge (FEC), or an equivalent program, as a method for ensuring achievement of the electronics stewardship goals of E.O. 13423.

The FEC supports efforts to continuously improve environmental stewardship of electronic assets government-wide, and in 2007, reorganized to better assist federal agencies and facilities in meeting the requirements of E.O. 13423. The FEC continues to provide resources and technical assistance to help federal agencies and facilities improve electronics management throughout the lifecycle.

FEC PARTNERS

Recognizing that E.O. 13423 superseded the Electronics Stewardship Memorandum of Understanding (MOU), and participation in the FEC or an equivalent electronics stewardship program is required of all federal agencies and facilities in the Implementing Instructions for E.O. 13423, the FEC updated its partnership structure. The FEC now has two complementary, non-overlapping partner levels: Agency and Facility. All existing Partners were transitioned to the new structure.

On December 31, 2007, the FEC had sixteen registered Agency Partners:

- Department of Agriculture
- Department of Commerce
- Department of Defense
- Department of Energy
- Department of Health and Human Services
- Department of Homeland Security
- Department of Interior
- Department of Justice
- Department of Labor
- Department of the Treasury
- Department of Transportation
- Department of Veterans Affairs
- Environmental Protection Agency
- Executive Office of the President
- General Services Administration
- United States Postal Service

By the end of 2007, the FEC also included 167 registered Facility Partners, representing over 605,500 federal employees. These Facility Partners come from the sixteen agencies listed above, as well as the Department of State, the Social Security Administration, and the National Aeronautical and Space Administration.

FEC PROGRAM ACCOMPLISHMENTS

Development and Revision of FEC Resources

The FEC has over 60 resource documents and tools for federal agencies and facilities on the environmentally sound management of electronics. In 2007, the FEC reviewed its online resources and updated many to address the new requirements of E.O. 13423 and proposed changes to the Federal Acquisition Regulation; in addition to providing current information on best practices. The following are a sampling of FEC resource documents developed or substantially updated in 2007:

- *Using Annual Reporting Form Data to Calculate Environmental Benefits*: This document was created to provide step-by-step instructions for using data from the FY2007 Annual Reporting Form to calculate environmental benefits using the Electronics Environmental Benefits Calculator (EEBC).

- *Answers to Frequent Questions: ENERGY STAR 4.0 and EPEAT:* This fact sheet was created to provide answers to frequent questions about ENERGY STAR 4.0 and EPEAT, and information on how federal agencies can ensure they purchase or lease computer products in compliance with the Energy Policy Act of 2005 and Executive Order 13423.
- *Integrating Electronics Stewardship Into Your EMS:* This resource was updated to match ISO 14001:2004 standard and significantly revised to better specify how to incorporate electronics stewardship.
- *Fact Sheet for Recipients of Donated Electronics:* This resource was updated to make the fact sheet more user friendly by focusing more on what the recipient can do.

FEC Educational Events

FEC Partners had the opportunity to participate in several educational and networking events in 2007, including the Third Annual Federal Electronics Stewardship Conference in February 2007 and monthly FEC Partner Education Conference Calls.

The Third Annual Federal Electronics Stewardship Conference brought together 134 participants from 18 agencies over a two-day period at the National Institute of Health (NIH) in Bethesda, MD. Conference participants gave the conference an average overall rating of 4.3 out of 5.

The FEC held at least one Partner Education Conference Call each month in 2007. Guest speakers presented the latest information on a variety of topics, including: training on how to use the FEC Total Cost of Ownership tool and Electronics Environmental Benefits Calculator; an overview of federal, state, local and international electronics regulations; and information on lifecycle considerations for small electronics.

FEC Technical Assistance

The FEC contacted each new FEC Partner to offer assistance on FEC implementation at the Partner's facility. The FEC technical assistance network, as well as the FEC Regional Champions network, was available to FEC Partners to provide information and guidance on FEC best management practices and related issues.

FEC PARTNER ACCOMPLISHMENTS

FEC Awards

Twenty-seven FEC Partners received a 2007 FEC Award for their accomplishments in 2006. Twelve Partners from four agencies received an FEC Gold Award, seven Partners from four agencies received an FEC Silver Award, and eight Partners from five agencies received an FEC Bronze Award.

Award applicants were required to complete all mandatory activities listed on the FEC Gold, Silver, or Bronze Award Checklists, as applicable, as well as complete a set number of optional activities for each award level. Gold Award applicants were also required to mentor two other federal facilities.

FEC Partner Reporting

The FEC Annual Reporting Form, due each January 31 for the previous fiscal year, allows FEC Partners and the FEC program to track progress towards the FEC national program goals. The table below captures the results reported by FEC Partners for fiscal year 2007.



Federal Electronics Challenge 2007 Accomplishments Summary

Updated: 4/4/2008

FEC Reported Results for Fiscal Year 2007¹

2008 Goals for FEC Partners	FY2007 FEC Partner Reporting Results
95% of computers purchased are EPEAT® Bronze-registered	80% of computer desktops, laptops and monitors purchased or leased were EPEAT Bronze, Silver or Gold-registered
100% of computers have 4-year life span	71% of computers have at least a 4-year life span, with a weighted average life span of 47 months
ENERGY STAR® features enabled on 100% of computer monitors	86% of monitors and 69% of computers had ENERGY STAR features enabled
100% of non-reusable computers are recycled in environmentally sound manner	99% of non-reusable computers were recycled in environmentally sound manner

FEC has also calculated the environmental benefits of the activities reported by FEC Partners for fiscal year 2007.

FEC Reported Environmental Benefits for Fiscal Year 2007

Environmental Benefit	Achievement	Equivalent to
Energy savings	210,087 MWh	Electricity to power 18,526 U.S. households for one year
Primary material savings	137,924,463 kg	Weight of 1,069,182 refrigerators
Air emission savings, including Greenhouse gas emission savings	860,262,620 kg 16,434,339 kg of carbon equivalent (CE)	860,263 metric tons Removing 13,043 passenger cars from the road for one year
Water emission savings	1,801,668 kg	1,802 metric tons
Toxic material savings	10,634 kg	Weight of 5,317 bricks
Municipal solid waste savings	1,935,477 kg	Solid waste generated by 1,002 U.S. households in one year
Hazardous waste savings	831,262 kg	Weight of 415,631 bricks
Cost savings	\$18.2 million	

CONTACT INFORMATION

If you have questions related to this resource or need other assistance with the Federal Electronics Challenge, please contact your Regional Champion: <http://www.epa.gov/fec/technical.html>.

Visit the FEC online: <http://www.epa.gov/fec/>

E-mail the FEC: fec@epa.gov

¹ 62 FEC Facility Partner Annual Reporting Forms were received for FY2007.