



Federal Electronics Challenge 2009 Accomplishments Summary

Updated: 4/2/2010

INTRODUCTION

The Federal Electronics Challenge (FEC) is 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.

Federal agencies and facilities participate as "Partners" in the program. The FEC provides Agency and Facility Partners with resources and technical assistance for improving electronics management practices, and gives annual recognition to Facility Partners that have achieved specific goals.

Through the provision of resources and recognition, the FEC assists all the participating federal agencies and facilities in meeting the electronics stewardship goals of Executive Order 13514, *Federal Leadership in Environment, Energy, and Economic Performance*.

FEC PARTNERS

The FEC has two complementary, non-overlapping partner levels: Agency and Facility. As of December 31, 2009, the FEC had eighteen registered Agency Partners:

- Department of Agriculture
- Department of Commerce
- Department of Defense
- Department of Education
- 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
- Social Security Administration
- United States Postal Service

By the end of 2009, the FEC also had 240 registered Facility Partners, representing 748,410 federal employees. These Facility Partners come from the eighteen agencies listed above, as well as the Department of State 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. The following are a sampling of new FEC resource documents developed 2009:

- Guidance for Federal Agencies on Preparing to Buy or Lease EPEAT Registered Imaging Equipment and Televisions
- Compressed Air Dusters and Environmental Concerns
- Extending the Life of Electronic Equipment
- Sample Language for Power Management and Powering Down Policies

FEC Educational Events

FEC Partners had the opportunity to participate in several educational and networking events in 2009, including the Federal Environmental Symposia in June 2009 and monthly FEC Partner Education Conference Calls.



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The FEC co-chairs the development of the Electronics Stewardship tracks at the Federal Environmental Symposia (FES). In 2009, FES East was held June 16-18 in Bethesda, MD and FES West was held June 2-4 in Bellevue, WA.

The FEC held eleven Partner Education Conference Calls in 2009. Guest speakers presented the latest information on a variety of topics, including: electronics stewardship considerations for small electronics; electronics stewardship at federal data centers; partner mentoring and team building; and updates on the Electronic Product Environmental Assessment Tool (EPEAT), Responsible Recycling (R2) Practices, and power management.

FEC Technical Assistance

The FEC Regional Champions network continued to be available to FEC Partners to provide information and guidance on FEC best management practices and related issues.

FEC PARTNER ACCOMPLISHMENTS

FEC Awards

Thirty-seven FEC Partners received a 2009 FEC Award for their accomplishments in 2008. Eight Facility Partners from four agencies received an FEC Gold Award, thirteen Facility Partners from three agencies received an FEC Silver Award, and sixteen Facility Partners from seven 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 2009.

FEC Reported Results for Fiscal Year 2009¹

2010 Goals for FEC Partners	FY2009 FEC Partner Reporting Results
95% of eligible electronic equipment purchased or leased annually by FEC Partners is EPEAT® registered	96% of computer desktops, laptops and monitors purchased or leased were EPEAT registered 1% were EPEAT Bronze; 24% were EPEAT Silver; 75% were EPEAT Gold
Electronic equipment in operation at FEC Partner facilities have an average life span of at least four years	77% of reporting Partners have a computer lifespan of at least 4-years, with a weighted average life span of 48 months
100% of eligible computers and monitors in operation at FEC Partner facilities have ENERGY STAR® features enabled	95% of monitors and 52% of computers had ENERGY STAR power management features enabled

¹134 FEC Facility Partner Annual Reporting Forms were received for FY2009, up from 128 in FY2008. These 134 reporting partners represent 498,185 federal employees.



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100% percent of non-reusable electronic equipment disposed of annually by FEC Partner facilities is recycled using environmentally sound management, as defined by the Responsible Recycling (R2) Practices

44% of electronics taken out of service were reused; **39%** were recycled; **16%** were sold or had an unknown disposition; and **1%** were disposed of

FEC has also calculated the environmental benefits of the activities reported by FEC Partners for fiscal year 2009. These environmental benefits were calculated using version 2.0 of the Electronics Environmental Benefits Calculator (EEBC).

FEC Reported Environmental Benefits for Fiscal Year 2009

Environmental Benefit	Achievement	Equivalent to
Energy savings	514,565 MWh	Electricity to power over 43,000 U.S. households for one year
Primary material savings	245,743 metric tons	Weight of 1.9 million refrigerators
Air emission savings, including Greenhouse gas emission savings	2,112,774 metric tons 46,259 metric tons	Removing over 31,000 passenger cars from the road for one year
Water emission savings	4,440 metric tons	
Toxic material savings	21 metric tons	Weight of over 10,000 bricks
Municipal solid waste savings	2,724 metric tons	Solid waste generated by over 1,300 U.S. households in one year
Hazardous waste savings	649 metric tons	Weight of more than 324,000 bricks
Cost savings	\$48.6 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