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### INTRODUCTION

In 2006, the Federal Electronics Challenge (FEC) continued to expand to provide educational and technical assistance to federal agencies and facilities in implementing environmentally sound electronics stewardship.

The FEC was officially launched in October 2004, and on November 15, 2004, the Executive Office of the President and eleven federal agencies signed the Memorandum of Understanding on *Promoting Sustainable Environmental Stewardship of Federal Electronic Assets*. The MOU signatory agencies are committed to supporting their facilities' participation in the FEC. In 2006, the Department of Labor signed the MOU and joined the FEC.

By December 31, 2006, FEC had doubled its partnership level from 2005 to 133 federal agencies and facilities representing over 442,000 federal employees. These FEC Partners represent the Executive Office of the President and the following federal agencies:

- Department of Agriculture
- Department of Commerce
- Department of Defense
- Department of Energy
- Department of Health and Human Services
- Department of Homeland Security
- Department of the Interior
- Department of Justice
- Department of Labor
- Department of Treasury
- Department of Transportation
- Department of Veterans Affairs
- Environmental Protection Agency
- General Services Administration
- National Aeronautics and Space Administration
- Social Security Administration

### FEC PROGRAM ACCOMPLISHMENTS

#### *Development of FEC Tools & Resources*

The FEC has developed over 60 resource documents for federal agencies and facilities on the environmentally sound management of electronics. In 2006, the FEC completed a review and revision of all of the resources available on the FEC website. The following is a sampling of FEC resource documents developed or substantially updated in 2006:

- *Total Cost of Ownership (TCO) Tool*: TCO modeling is a tool that systematically accounts for all costs related to an IT investment decision. In 2006, FEC developed a template to assist FEC partners in completing a basic TCO analysis for electronics acquisition.
- *Energy Conservation with ENERGY STAR®*: Power management features are a key energy saving feature of ENERGY STAR qualified electronics. FEC developed a resource to provide information about the potential energy savings for different office equipment, as well as power management tips and resources.
- *Reuse and Recycling Overviews*: FEC developed two end-of-life overviews: one covering reuse and donation options and one covering recycling options for federal agencies and facilities. These overviews provided information on best management practices for electronics at the end-of-life, within the context of the General Services Administration property procedures.

#### *FEC Educational Events*

FEC Partners had the opportunity to participate in several educational and networking events in 2006, including the Second Annual Federal Electronics Stewardship Conference in February 2006, the Western Workshop on Federal Stewardship of Electronics and Priority Chemicals in October 2006 and monthly FEC Partner Education Conference Calls.



## Federal Electronics Challenge 2006 Accomplishments Summary

Updated: 5/10/2007

The Second Annual Federal Electronics Stewardship Conference brought together 130 participants from 20 agencies over a two-day period at the General Services Administration Headquarters in Washington, D.C. Conference participants gave the conference an average overall rating of 4.3 out of 5.

The Western Workshop on Federal Stewardship of Electronics and Priority Chemicals brought together federal employees in EPA Regions 8, 9 and 10, to discuss priority chemicals and electronics stewardship.

The FEC held at least one Partner Education Conference Call each month, except February, in 2006. Guest speakers presented the latest information on a variety of topics, including: Legal Definitions – Electronics Products vs. Wastes; Data Security; Electronics Reuse and Donation; Recycling Electronics and Evaluating Electronics Recyclers; and Improving the Life Cycle Management of Printing and Imaging Equipment. During each teleconference, FEC Partners were given the opportunity to ask questions and discuss technical and policy issues related to environmentally sound electronics stewardship.

### *FEC Technical Assistance*

The FEC Program 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 EPA & GSA Champions network, is available to FEC Partners at all times to provide information and guidance on FEC best management practices and related issues.

## **FEC PARTNER ACCOMPLISHMENTS**

### *FEC Awards*

Twenty-two FEC Partners received a 2006 FEC Award for their accomplishments in 2005. Seven Partners from two agencies received an FEC Gold Award, five Partners from four agencies received an FEC Silver Award, and ten Partners from four 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 and covering 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 2006.

### **FEC Reported Results for Fiscal Year 2006<sup>1</sup>**

<b>2008 Goals for FEC Partners</b>	<b>2006 FEC Partner Reporting Results</b>
<b>95%</b> of computers purchased are EPEAT® Bronze-registered (EPEAT Bronze products meet 23 mandatory criteria)	<b>21%</b> of computers purchased were EPEAT Bronze-registered or higher (EPEAT products were available starting in July 2006) <b>49%</b> of Partners specified EPEAT preference in contract language
<b>100%</b> of computers have 4-year life span	<b>53%</b> of computers had a 4-year (or more) lifespan
ENERGY STAR® features enabled on <b>100%</b> of computer monitors	<b>92%</b> of monitors had ENERGY STAR® features enabled

<sup>1</sup> 64 FEC Partner reports received for FY2006



## Federal Electronics Challenge 2006 Accomplishments Summary

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<b>100%</b> of non-reusable computers are recycled in environmentally sound manner	Over <b>99%</b> of non-reusable computers were recycled in environmentally sound manner
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FEC has also calculated the environmental benefits of the activities reported by FEC Partners for fiscal year 2006.

### FEC Reported Environmental Benefits for Fiscal Year 2006

Environmental Benefit	Achievement	Equivalent to
Energy savings	134,924 MWh	Electricity to power 11,898 U.S. households for one year
Primary material savings	29,715,633 kg	Weight of 230,354 refrigerators
Greenhouse gas emission savings	10,592,255 kg of carbon equivalent (CE)	Removing 8,407 passenger cars from the road for one year
Air emission savings	557,300,344 kg	557,300 metric tons
Water emission savings	1,165,739 kg	1,166 metric tons
Toxic material savings	5,195 kg	Weight of 2,597 bricks
Municipal solid waste savings	780,332 kg	Solid waste generated by 404 U.S. households in one year
Hazardous waste savings	202,600 kg	Weight of 101,300 bricks
Cost savings	\$11.7 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](mailto:fec@epa.gov)