FEDERAL GREEN PURCHASING FOR ELECTRONICS: EPEAT, ENERGY STAR AND FEMP

FEC Partner Webinar
December 2012 (Revised March 2013)

FEDERAL GREEN PURCHASING REQUIREMENTS FOR ELECTRONICS

- Federal Acquisition Regulation (FAR) Part 23
 - Requires acquisition of EPEAT, ENERGY STAR, FEMP and "environmentally preferable" products and services
- Executive Order 13514
 - Requires "sustainable acquisition" including EPEAT, ENERGY STAR and FEMP
- Executive Order 13221
 - Requires acquisition of electronics with low standby power
- EPAct 2005, EISA 2007
 - Requires acquisition of ENERGY STAR and FEMP

WHAT IS EPEAT®?



- The <u>Electronic Product Environmental Assessment</u> <u>Tool (EPEAT)</u>
- A system to help purchasers evaluate, compare and select electronic products based on their environmental attributes
- A system to enable manufacturers to obtain market recognition through achievement of specific performance criteria in electronic product design and sales

WHAT IS EPEAT?

- Set of voluntary performance criteria that define required and optional environmental attributes for electronic products
 - Currently specified in the <u>IEEE 1680 family of standards</u>
- System for listing products that meet the performance criteria
 - EPEAT Registry
- Method for verifying that listed products have achieved specified performance criteria
 - Product verification

IEEE 1680 FAMILY OF STANDARDS

 IEEE 1680: how the product registration and verification systems work

 IEEE 1680.1: criteria for computer desktops, laptops and monitors

o IEEE 1680.2: criteria for imaging equipment

o IEEE 1680.3: criteria for televisions

EPEAT ENVIRONMENTAL CRITERIA

- Required criteria and optional criteria in many categories:
 - Reduction/elimination of environmentally sensitive materials
 - Materials selection
 - Design for end-of-life
 - Product longevity/lifecycle extension
 - Energy conservation
 - End-of-life management
 - Corporate performance
 - Packaging
 - Consumables (IE only)
 - Indoor air quality (IE only)
- Products must meet required criteria in all categories

EPEAT TIERS



EPEAT Bronze

Meets all required criteria



EPEAT Silver

Meets all required criteria and at least 50% of the optional criteria



EPEAT Gold

Meets all required criteria and at least 75% of the optional criteria

EPEAT VERIFICATION

- Manufacturers self-declare registered products
 - Must be prepared to provide verification documentation for any declared criteria at any time after product registration
- EPEAT performs <u>registry surveillance and</u> <u>ongoing verification investigations</u>

FINDING EPEAT REGISTERED PRODUCTS

- Utilize an existing contract vehicle that requires the delivery of EPEAT registered products
 - May need to specify EPEAT registered products in delivery or task orders
- Find EPEAT registered products through <u>GSA</u> <u>Advantage!</u>
- Find an EPEAT registered product on the registry and acquire through a vendor

ACTIVE AND ARCHIVED PRODUCTS

- For the purposes of reporting to your agency, the Office of Management and Budget, or the Federal Electronics Challenge:
 - Products count as EPEAT registered if they had an active registration at the time of acquisition
 - Check Registration Date and Product Status

CHOOSING NON-EPEAT REGISTERED

- Federal requirements are to buy EPEAT
 - Specialized equipment is registered, including ruggedized laptops, 3D and touch-screen displays, and multi-processor computers
 - Check the registry before assuming there are no EPEAT registered products!
- Any non-EPEAT registered acquisitions must fall within the 5% allowance, no further exceptions are allowed

THE FUTURE OF EPEAT

- Addition of imaging equipment and televisions to the registry is expected in January 2013 and April 2013, respectively
- Standard development for servers and mobile devices is planned
- Revision of the computer standard and umbrella standard is starting

WHEN DO FEDS NEED TO START BUYING EPEAT-REGISTERED IE AND TVs?

- The new standards for imaging equipment and televisions are already referenced in the FAR via reference to the IEEE 1680 standard
- Federal purchasers are expected to procure products meeting these standards as soon as products are listed on the EPEAT Product Registry
 - IE: January 2013
 - TV: April 2013
- Agencies' OMB Sustainability and Energy Scorecards will be impacted by their progress towards meeting this requirement as of July 2013

New EPEAT Products Covered*

- Imaging Equipment (IE)
 - Printers
 - Copiers
 - Scanners
 - Facsimile Machines
 - Multifunction devices
 - Digital duplicators
 - Mailing machines

- Televisions (TVs)
 - Any display sold primarily as a "television" (size 15 inches and up)
 - Includes CRT, LCD, and plasma televisions

^{*} Product coverage is harmonized with ENERGY STAR® categories

FINDING EPEAT REGISTERED IE AND TV PRODUCTS AFTER JANUARY 1, 2013

- Find on the EPEAT Registry
 - Just like finding computers and monitors!
- Find registered products elsewhere
 - NASA SEWP must specify in all task orders
 - GSA offers printers and televisions through:
 - Several multiple award schedules (36, 58, 67, and 70)
 - The Federal Strategic Sourcing Initiative (FSSI) Office Supplies 2 BPA
 - The FSSI Print Management Services BPA
 - These will be updated when there are products on the EPEAT registry
 - Ask your Agency IT department or FESWG liaison if your Agency IT hardware contract offers EPEAT registered IE and TVs

Using Existing Contracts

- If your contract includes language on purchasing EPEAT registered IE and TVs when they become available
 - You should be able to buy EPEAT registered
 - May need to specify EPEAT registered in task or delivery orders

- If your contract does not include language on purchasing EPEAT registered IE and TVs
 - You may still be able to buy EPEAT registered
 - Check if you can specify EPEAT registered products in task or delivery orders
 - Check if you can add EPEAT registration requirements in upcoming technology refreshes or contract modifications

BUY IE WITH THE DUPLEXING FUNCTION SET AS DEFAULT

- Look to see if a product is shipped with the duplexing function set as the default as specified in the EPEAT registry
- Discuss with your IT operations staff the need to retain the duplexing function during installation of new equipment

WHAT IS ENERGY STAR?



- Voluntary labeling program managed the U.S. Environmental Protection Agency (EPA)
- Strategic approach to energy management, promoting energy efficient products and practices
- Tools and resources to help save money and protect the environment
- Influential brand recognized by over 80 percent of Americans

WHAT IS ENERGY STAR?



- The ENERGY STAR label was established to:
 - Reduce greenhouse gas emissions and other pollutants caused by the inefficient use of energy

AND

 Make it easy to identify energyefficient products that offer savings on energy bills without sacrificing performance, features, and comfort

ENERGY STAR SPECIFICATIONS

• For office equipment:

- Audio/Video Equipment
- Battery Chargers
- Computers
- Cordless Phones
- Displays
- Enterprise Servers
- Imaging Equipment
- Televisions and Set-top/Cable Boxes
- Uninterruptable Power Supplies

ENERGY STAR ENVIRONMENTAL CRITERIA

- Different criteria are set for different products and may cover:
 - Active energy use
 - Off, idle and sleep energy use
 - Total energy use
 - Power management ability
 - Duplexing ability (imaging equipment)
 - Efficiency of external power supplies and adaptors

ENERGY STAR VERIFICATION

- Products must be tested and certified by a third party prior to being listed as qualified
- Product performance is verified through postqualification testing to demonstrate that they continue to meet specifications
- Ten percent of ENERGY STAR certified products in each category are subject to verification testing every year
- Qualification and verification testing must be performed by a laboratory recognized by ENERGY STAR

FINDING ENERGY STAR PRODUCTS

- Utilize an existing contract vehicle that requires the delivery of ENERGY STAR qualified products
 - May need to specify ENERGY STAR qualified products in delivery or task orders
- Find ENERGY STAR qualified products through GSA Advantage!
- Find an ENERGY STAR qualified product on the qualified product list and acquire through a vendor

SPECIFICATION VERSIONS

- ENERGY STAR revises specifications when:
 - Qualified products have more than 50% market share
 - Federal minimum efficiency standards change
 - Technological advances in energy efficiency
 - Product availability changes
 - Significant issues with consumers realizing expected energy savings arise
 - Performance or quality issues arise
 - Issues with test procedures arise
- Only products that qualify under the current specification meet ENERGY STAR acquisition requirements

THE FUTURE OF ENERGY STAR

- New Product Specifications under development
 - Data Center Storage
 - Large and Small Network Equipment



WHAT IS FEMP?

- The <u>Federal Energy Management Program (FEMP)</u>
 is a DOE program that develops purchasing
 specifications to help Federal buyers comply with
 energy efficiency and low standby power
 procurement requirements
- FEMP <u>does not</u> identify products that meet their energy efficiency requirements
- FEMP <u>does</u> identify products that meet their low standby requirements

ENERGY EFFICIENCY PERFORMANCE REQUIREMENTS FOR FEDERAL PURCHASES

- For office equipment:
 - Audio/Video Equipment
 - Battery Chargers
 - Computers
 - Cordless Phones
 - Displays
 - Enterprise Servers
 - Imaging Equipment
 - Televisions and Set-top/Cable Boxes
- Buy ENERGY STAR qualified to meet FEMP energy efficiency requirements for office equipment

LOW STANDBY POWER PERFORMANCE REQUIREMENTS FOR FEDERAL PURCHASES

- Buy ENERGY STAR to meet FEMP low standby power requirements, except for the following <u>office</u> <u>equipment</u>:
 - Computer Desktops and Workstations
 - Fax/Printer machines
 - Cordless phones
- For these products, you must also ensure they meet FEMP low standby power requirements

FEMP ENVIRONMENTAL CRITERIA

- Different criteria are set for different products and may cover:
 - Active energy use
 - Off, idle and sleep energy use
 - Duplexing ability (imaging equipment)
 - Low standby power energy use

FEMP VERIFICATION

- FEMP does not identify or endorse specific products as meeting the energy efficiency requirements
- FEMP collects data on products that meet low standby power requirements
 - Obtains data from ENERGY STAR
 - Obtains data directly from manufacturers

FINDING FEMP PRODUCTS

- Meeting energy efficiency requirements
 - Office products that are ENERGY STAR qualified meet FEMP energy efficiency requirements
 - Follow instructions for finding ENERGY STAR qualified products
- Meeting low standby power requirements
 - Some, but not all, ENERGY STAR qualified products meet low standby power requirements
 - Federal purchasers must ensure that both requirements are met for:
 - Computer Desktops and Workstations
 - Fax/Printer machines
 - Cordless phones

FINDING FEMP PRODUCTS

- Utilize an existing contract vehicle that requires the delivery of products meeting FEMP requirements
 - May need to specify products that meet FEMP requirements in delivery or task orders
- Find a product meeting low standby power requirements in the <u>FEMP Standby Power Data</u> <u>Center</u> and acquire through a vendor
 - Only available for products meeting low standby power requirements

CHANGES IN REQUIREMENTS

- FEMP prioritizes revision of purchasing specifications based on:
 - Time elapsed since the last revision
 - Significance of the likely energy/cost savings
 - Changes in performance requirements or test procedures made by other organizations
 - Requests for specific information from the FEMP Interagency Product Procurement Working Group
 - Changes in technology applicable to a given application
 - Market data availability
- Only products that meet the current specification meet FEMP acquisition requirements

EPEAT, ENERGY STAR AND FEMP

- EPEAT registered products
 - Must meet the current ENERGY STAR technical specification for the product
 - Must meet FEMP low standby power requirements
 - Required for imaging equipment
 - Optional for televisions, but all registered televisions will meet it due to having to meet ENERGY STAR requirements
- ENERGY STAR qualified products
 - Must meet FEMP energy efficiency requirements
 - May meet FEMP low standby power requirements

OTHER GREEN PURCHASING CONSIDERATIONS

- Look for products with other eco-labels:
 - Understanding Eco-labels for Electronics
- Attributes to look for:
 - Key Environmental Attributes for Electronics Acquisition
- Checking or collecting information on products:
 - Product Environmental Information Sheet for Electronics

WRITING CONTRACT LANGUAGE

- Required contract language is included in the FAR Part 52
- EPEAT Contract language
 - Model Contract Language for Federal Acquisition of EPEAT-Registered Electronics
 - Guidance for Federal Agencies Preparing to Acquire Imaging Equipment and Televisions
- ENERGY STAR contract language
- FEMP contract language

CONTACTS

EPEAT

Holly Elwood, <u>elwood.holly@epa.gov</u>

ENERGY STAR

Una Song, song.una@epa.gov

FEMP

Amanda Sahl, <u>Amanda.Sahl@ee.doe.gov</u>

FEC

- FEC Champions, http://www.epa.gov/fec/technical.html
- Cate Berard, <u>berard.cate@epa.gov</u>

FEDERAL ENERGY MANAGEMENT PROGRAM





FEMP Update

December 2012

Amanda Sahl, CEM

amanda.sahl@ee.doe.gov



FEMP's new activities



 Updates and improvements to standby power requirements and data center

 Recently launched Commit to Efficiency Campaign

Standby Power Requirements



www.femp.energy.gov/standby

Table 1. Energy Efficiency Requirements for Low Standby Power Product Categories				
Product Category	Purchasing Requirements			
Cordless phones	Buy products rated 1 watt or less in the Standby Power Data Center			
Desktop computers and workstations				
Fax/printer machines				
All other product types	Buy products rated 1 watt or less			
Microwave ovens ^a	Buy products rated 2 watts or less in the Standby Power Data Center			
<u>Audio/video</u>	Buy ENERGY STAR®—qualified products ^b			
Copiers				
Displays (including monitors and televisions)				
Notebooks and integrated computers				
Multifunction imaging devices				
<u>Printers</u>				
<u>Scanners</u>				

Standby Power Data Center



Find Products

Enter a company or brand name, model number, product type, or other features to search the Standby Power Data Center. Leave the box blank to return all products within a product category.

Search Text:			Search
Product Category:	All	~	

Search Results

Below are 4225 product results based on your search criteria. Click on 'Export to Excel' to save the results to your computer.

Export to Excel

Mandatory FEMP Standby Power Requirement	Declared Standby Power ▶	Product Type ▶	Company Name - Brand Name	<u>Model Number</u> ▶	Other Features ▶
Non-compliant	3.1 W or greater	Desktop computer/Workstation	Acer Incorporated- Acer	Veriton L67G	
Compliant	0 to 1 W	Fax/Printer Machine	Shandong New Beiyang Information Technology Co., Ltd- SNBC	BTP-R990	Wireless - 802.11, USB 2.x
Compliant	0 to 1 W	Fax/Printer Machine	Shandong New Beiyang Information Technology Co., Ltd- SNBC	BTP-R580II	Wireless - 802.11, USB 2.x
Compliant	0 to 1 W	Fax/Printer Machine	Shandong New Beiyang Information Technology Co., Ltd- SNBC	BTP-R580III	Wireless - 802.11, USB 2.x
Compliant	0 to 1 W	Fax/Printer Machine	Shandong New Beiyang	BTP-R980	Wireless - 802.11, USB 2.x



Commit to Efficiency campaign participants join a community of their peers who are committed to saving energy and money

 Campaign materials are designed to make buying energy-efficiency products easier for Federal agencies

 The campaign creates new methods for FEMP Energy-Efficiency Product Procurement audience outreach

Commit to Efficiency Campaign Goals



Long-term goals:

- Achieve 7 trillion Btu in energy savings or \$130 million in energy costs
- Create a community network
- Expand FEMP outreach

ENERGY Energy Efficiency & Renewable Energy

FEDERAL ENERGY MANAGEMENT PROGRAM

Commit to Efficiency

The Federal Campaign to Buy Energy-Efficient Products

Every year, more efficient-product purchases could save the Federal Government almost a half billion dollars' worth of energy. In these resource-constrained times, the Commit to Efficiency campaign is a way for individuals involved in Federal purchases to make a difference.

The goal of this groundbreaking campaign is to save \$130 million worth of energy (7 trillion BTUs) by December 31, 2013.*

As a campaign participant, you can ensure the products you help buy, choose, and specify are energy-efficient through three simple steps:

- Commit to efficiency. Register and review your free
 produce kit.
- Push for efficiency. Buy and specify energy-efficient products for every purchase.
- Spread the word! Tell your colleagues to commit to efficiency and ask your suppliers for exclusively energyefficient products.

What Are the Benefits of Joining the Campaign?

When you register for the Federal Commit to Efficiency campaign, you join a community of problem-solving individuals who can help you meet your energy-efficient product procurement goals. Further, you'll gain an accurate record of your procurement accomplishments by notifying FEMP when you take action to buy, specify, or contract for energy-efficient products. This record can be used in performance evaluations and in interagency award nominations. Finally, you will receive recognition from FEMP, and possibly your agency, for your proven commitment to saving money and power by purchasing energy-efficient products.





Who should John? Federal procurement officials, facility managers, energy managers, architects, technical specifiers, energy auditors, building designers, and engaged building occupants. Sign up onlin at www.femp.energy.gov/commit. Photo from IStock/R6632870

Benefits of joining the campaign include:

- Access to basic, intermediate, and advanced training courses
- A free records system that estimates your energy and cost savings and helps you track and share your procurement accomplishments
- Eligibility for Federal-wide and agency-specific recognition programs
- Access to peers who have successfully overcome commonly encountered barriers
- Free resources that help you easily identify compliant products and contracts and push for efficiency.

Who Should Register and Join?

Anyone who procures or specifies energy-consuming products or who influences the procurement, specifying, or sale of energy-consuming products used by the Federal Government can join the Commit to Efficiency campaign. This includes Federal procurement professionals, 1102s, contract specialists, contracting officers, facility managers, energy managers, architects, technical specifiers, energy auditors, designers, and occupants of Federal buildings. Likewise, Federal Government contractors can highlight and promote energyefficient products when operating, maintaining, or auditing Federal facilities

That's the equivalent of taking more than 8,000 average-stzed Federal buildings off the grid for a year. Your participation contributes to this goal by ensuring the Federal Government specifies, contracts for, and receives energy-efficient products that exceed FEMP-designated and EMERGY STAR requirements whenever possible.

Overview



Participants in the campaign:

- Sign a pledge form
- Create a record of their commitments in the following categories
 - Purchasing and contracting
 - Training
 - Recognition and responsibility
 - Specifying and selecting
 - Recruiting

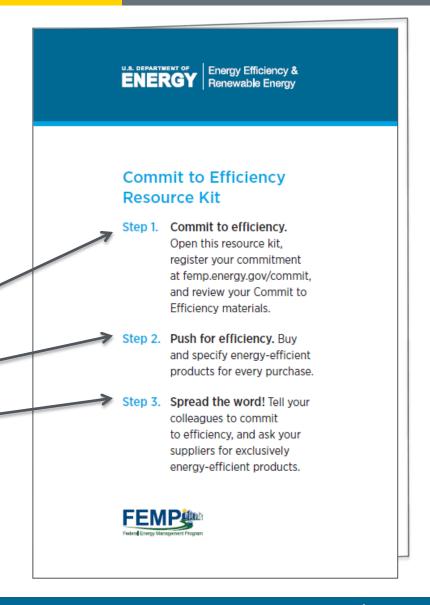
Commit to Efficiency: Join the Camp	oolan		
Commit to Efficiency. John the Camp	Send your completed		
l,, si	upport the Federal commitment to		
Government's leadership by example in energy efficiency. I pled the Federal Commit to Efficiency campaign and do my part to e			
purchases are energy efficient. Together, we can save millions of			
than 2,000 gigawatt-hours annually.	c/o Amanda Sahl 1000 Independence Ave. SW		
F-3-11	EE-2L/FEMP		
Email address:	Washington, DC 20585		
honor your commitment through valuable online resourc	ses and personal connections. Specifying and Selecting		
I will include FAR part 52.223-15 (or similar language if the FAR does not apply) in all relevant contracts.	I will request energy-efficient products that meet or exceed FEMP-designated or ENERGY STAR' minimum efficiency requirements whenever I specify, select, or		
Training	ask for an energy-consuming product to be purchased.		
I will complete a basic/intermediate (choose one or both) training on energy-efficient product procurement.	Recruiting		
I will attend or more (up to 10) product-specific trainings.	I will recruit at least individuals to join the Commit to Efficiency campaign.		
•	What type of individuals will you recruit?		
I will host local training session(s). (DOE/FEMP will help with presentation materials and Web/phone-based conference services.)	Procurement officials (e.g., contract specialists, GS-1102s, COs, KOs, and COTRs)		
Recognition and Responsibility	Technical experts and/or specifiers (e.g., facility managers and maintenance and operations personnel)		
I will track my accomplishments toward other Commit			
to Efficiency actions. I want to be notified when FEMP's free accomplishment	Trainers, recruiters, and influencers (e.g., people who can help increase their colleagues' energy-efficient		
tracking tool becomes available in January 2013.	product purchases)		
	to FEMP today! In a few weeks you'll receive a welcome email ill ask you to register online, provide you with a summary of your		
commitments, and give you the resources you need to get start	eu.		

Resource Kit



Participants agree to buy, choose, and specify energy-efficient products through these three steps:

- Commit to efficiency
- 2. Push for efficiency
- 3. Spread the word



Resource Kit





Commit to Efficiency

Step 1. Commit to efficiency.

Open this resource kit, register your commitment at femp.energy.gov/commit, and review your Commit to Efficiency materials.

Step 2. Push for efficiency. Buy and specify energy-efficient products for every purchase.

Step 3. Spread the word! Tell your colleagues to commit to efficiency, and ask your suppliers for exclusively energy-efficient products



Upcoming Training



- Comprehensive advanced training (December 2012)
- Product-specific training (FY13 Q2)
- FEMP "Office Hours" (FY13 Q2)

ENERGY Energy Efficiency & Renewable Energy

Federal Energy Management Program

Congratulations,

You've completed the first step in the Commit to Efficiency campaign and joined a community designed with your energy-efficient product procurement goals in mind. By taking the pledge and participating in the campaign, you commit that the products you help buy, choose, and specify are energy-efficient through three simple steps:

- Commit to efficiency. Take the pledge, and review and print the free campaign resource kit.
- Push for efficiency. Buy and specify energy-efficient products for every purchase.
- Spread the word! Tell your colleagues to commit to efficiency and ask your suppliers for exclusively energy-efficient products.

For more information about pushing for energy efficiency and spreading the word, visit the <u>Commit to Efficiency</u> campaign page and download the campaign resource kit. Stay tuned for an online registration system where you can formally join the Commit to Efficiency network, confirm your commitments, and receive resources customized to your preferences.

For questions or comments about the campaign, email <u>Amanda Sahl</u> or call 202-586-1662. You'll find upcoming training related to energy-efficient products in the <u>FEMP</u> <u>Training Database</u>.

Thank you!



Amanda Sahl, CEM
Federal Energy Management Program
U.S. Department of Energy - EERE

amanda.sahl@ee.doe.gov

202.586.1662

ASK ME
About
The Pledge