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# Procurement of Energy Star Equipment

**Pit Stop: Timely Procurement Topics**

**Session 1B**

**August 7, 2006**



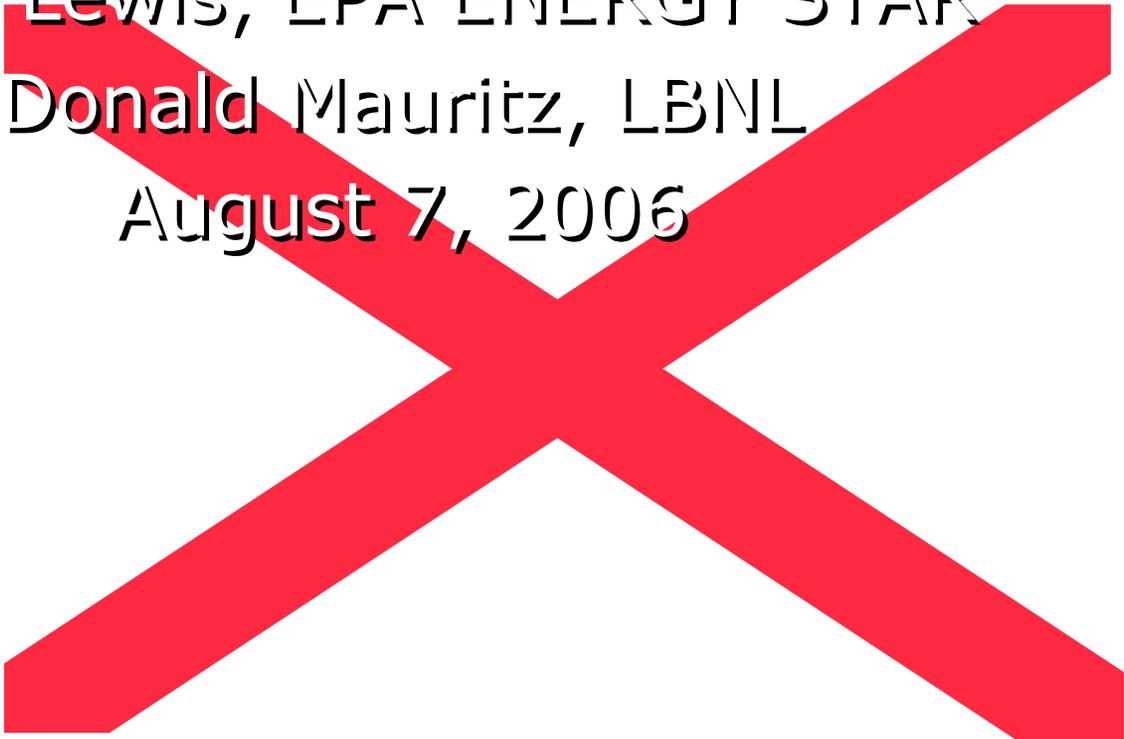
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# Procurement of ENERGY STAR Equipment

Kate Lewis, EPA ENERGY STAR

Donald Mauritz, LBNL

August 7, 2006





**Pit Stop:  
Timely  
Procurement  
Topics**

## ■ June 2006 e-mail

- “The Energy Policy Act of 2005 requires federal agencies to purchase ENERGY STAR and FEMP-designated products.

“What does that really mean to us contracting officers and buyers?”

“I work for the DOX and nobody here knows anything about this act or any requirements we must follow to comply!”



**Pit Stop:  
Timely  
Procurement  
Topics**

- Energy Policy Act of 2005
- ENERGY STAR-qualified and FEMP-designated products
- ENERGY STAR update
- Direct and Indirect Purchases
- Conclusion



**Pit Stop:  
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Topics**

- Title I – Energy Efficiency
  - Subtitle A - Federal Programs
    - Section 102: Energy Management Requirements
    - Section 104: Procurement of Energy Efficient Products



**Pit Stop:  
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Procurement  
Topics**

## ■ Energy Reduction Goals:

- Requires agencies to reduce building energy use (per gross square foot) by 2% per year from 2006 through 2015
- Establishes 2003 energy use as baseline
- Authorizes agencies to retain cost savings from energy efficiency and water conservation



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Topics**

- **Procurement:** Agencies shall buy only ENERGY STAR-qualified or FEMP-designated products
  
- **Procurement Planning:** Agencies shall incorporate ENERGY STAR and FEMP performance criteria into:
  - Guide and project specifications
  - Construction, renovation, and services contracts
  - Evaluation of competitive offers



**Pit Stop:  
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Topics**

- **Listing of Energy Efficient Products in Federal Catalogs**  
GSA and DLA shall:
  - Supply only ENERGY STAR-qualified and FEMP-designated products
  - Clearly identify and prominently display ENERGY STAR and FEMP-designated products
- **Exceptions:** Where agency head documents in writing that:
  - Product is not life-cycle cost-effective
  - No energy efficient product meeting functional requirements is "reasonably available "
- **Exclusions:** Product/system is for combat or combat related missions



# ENERGY STAR-Qualified & FEMP-Designated Products



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Topics**

- 65 product types in the following categories:
  - Lighting
  - Commercial & Industrial Equipment
  - Food Service Equipment
  - Office Equipment
  - Home Electronics
  - Appliances
  - Residential Equipment
  - Construction & Plumbing Products

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# ENERGY STAR-Qualified & FEMP-Designated Products



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Topics**

- Guiding principles for selecting products and setting specifications:
  - Efficiency achievable with non-proprietary technology
  - Energy savings potential significant
  - Life-cycle cost effective
  - Performance maintained or enhanced
  - Performance data available using industry recognized test method
  - Labeling effective in the market



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# ENERGY STAR



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- Government backed symbol for energy efficiency
- Products available from federal supply and commercial sources
- Label on product, packaging or in owner's manual
- Lists with make and model numbers available at:  
[www.energystar.gov/products/](http://www.energystar.gov/products/)

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# ENERGY STAR Updates



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Topics**

- Product Specifications
- Power Management
- 2007 ENERGY STAR-Qualified Office Equipment Specifications
  - External power supplies
  - Monitors
  - Imaging equipment
  - Computers

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# ENERGY STAR Product Updates



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- New specifications
  - Battery chargers
  - Commercial dishwashers
- Revisions
  - Furnaces
  - Programmable thermostats
  - Roofs
  - Remanufactured vending machines
- Future specifications
  - Enterprise servers
  - Ice makers
  - Seasonal LEDs

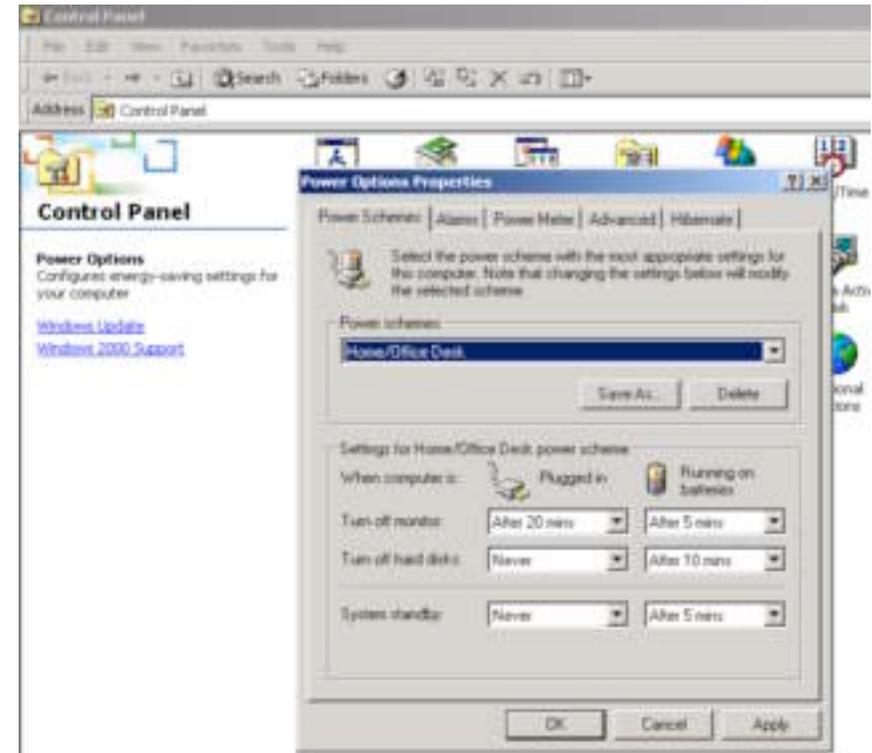
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# What Is Power Management?



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Topics**

- Already exists in Windows 95, 98, ME, 2000 and XP
- Just needs to be activated



# Why Enable Power Management?



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Topics**

- Roughly 100 million office computers and monitors use more than 1% of the nation's electricity
- More than half of electricity used to power PCs is wasted
  - 60% of PCs left on at night
  - 30% to 45% of monitors are not enabled for power management
  - 90+% of computers are not enabled for power management



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Topics**

- Monitor and computer power management
  - Network Tools: EZ Save, EZ GPO
  - Consultation
  - EPA educational materials and PR
    - [www.energystar.gov/powermanagement/](http://www.energystar.gov/powermanagement/)
  - Other tools commercially available



# Public Information and Outreach



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Topics**

- *National Public Radio Broadcast*
- *Energy Professionals: Buildings, Building Operating Management*
- *High Tech: Government Computer News, PC World, Computer World, InfoWorld, Yahoo News, Smart Computing*
- *Upper Management: CIO, CFO, AOL Money Newsletter*
- *Education: Chronicle of Higher Education, Education Dealer, School Planning and Management*

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Topics**

- Office of the Secretary of Defense activated monitor power management on 700 computers to save \$7000/year.
- Navy confirmed that monitor power management will be set to 15 minutes on 410,000 PCs to save over \$4 million/year.
- Defense Logistics Agency activated computer power management on 600 laptops using the EZ GPO tool, February 2006.
- US EPA offices in Arlington, VA activated computer power management on 800 PCs set to sleep after 10 minutes of inactivity, December 2005.





# ENERGY STAR-Qualified Office Equipment



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Topics**

- **New Computer Specification** includes desktops, notebooks, workstations, desktop-derived servers
- **New Imaging Equipment Specification** includes copiers, fax machines, mailing machines, multifunction devices, printers, scanners
- Shift focus to overall energy use, not only standby power
- Both require external power adapters be ENERGY STAR-qualified



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# Specification Timelines



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Product Category	Status	Effective Date
External Power Supplies	Finalized	January 1, 2005
Monitors*	Finalized	January 1, 2006
Imaging Equipment	Under Development	April 1, 2007
Computers	Under Development	July 1, 2007

**\* The Tier 2 monitors specification is effective as of January 1, 2006. EPA also may revise the specification in the near future to require ENERGY STAR EPSs on monitors with EPSs.**



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Topics**

- Purchase orders
- Basic Ordering Agreements
- Procurement cards
- Federal supply sources
  - Multiple Awards Schedules
  - *GSA Advantage*
  - *DLA E-Mail*



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Topics**

- Request ENERGY STAR-qualified or FEMP-designated product
- Check for label on product or in catalog and schedules
- Select make and model number from product lists on Web sites
- Specify performance to meet or exceed ENERGY STAR or FEMP criteria



# Working Together with Federal Supply Sources



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Topics**

- Make ENERGY STAR and FEMP products easier to find
- Label products on supply source Web sites using newly-developed tools
- Standardize product language
  - “ENERGY STAR-qualified” or “FEMP-designated” is included as part of all product criteria
- Place educational / training materials on federal supply sources Web sites

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Topics**

- Specifications
  - Guide or master
  - Project
  
- Contracts
  - Construction or renovation
  - Operation and maintenance
  - Service



**Pit Stop:  
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Procurement  
Topics**

- EPA Environmentally Preferable Purchasing Program
  - 62 sections in CSI format
  - 8 sections with ENERGY STAR or FEMP performance criteria
  - Available from Web at:  
<http://fedgreenspecs.wbdg.org>
  - Word and PDF format
  - Cut and paste into specifications



**Pit Stop:  
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## 1.3 QUALITY ASSURANCE

### A. Albedo:

#### SPECIFIER NOTE:

The EPA Energy Star program recommends Solar Reflectance for low sloped roofs as indicated below. Additional considerations for the procurement official include: Geographic location of building; the amount of insulation; and roof surface to building volume ratio. Refer to [http://www.energystar.gov/index.cfm?c=roof\\_prods.pr\\_roof\\_products](http://www.energystar.gov/index.cfm?c=roof_prods.pr_roof_products)

1. 1: Low sloped: Initial Solar Reflectance greater than or equal to 0.65. Maintenance of Solar Reflectance greater than or equal to 0.50 three years after installation under normal conditions.

### B. B: Energy Efficiency:

#### SPECIFIER NOTE:

Roof systems that meet or exceed solar reflectance, without compromising product quality and performance, qualify for the Energy Star label. Manufacturers voluntarily sign an agreement with Energy Star called a Partnership Agreement (PA) allowing them to place the Energy Star label on the packaging of qualifying roof products. An Energy Star qualified roof product lowers roof surface temperature by up to 100°F, thereby decreasing the amount of heat transferred into a building's interior. Energy Star roof specifications are not restricted to any particular type of roof product. However, Energy Star expects that, at least initially, metal, single-ply membrane, and roof coating products will be most widely represented. For additional information, refer to [http://www.energystar.gov/index.cfm?c=roof\\_prods.pr\\_roof\\_products](http://www.energystar.gov/index.cfm?c=roof_prods.pr_roof_products)

1. 1: Provide Energy Star labeled roofing systems



# Model Procurement Language



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Topics**

- Prepared by both ENERGY STAR and FEMP
- Formatted as Word documents
- Download from Web sites
- Cut and paste into contracts and solicitations

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Procurement  
Topics**

- Sample from ENERGY STAR

## Scanners

### **The Vendor Must:**

Provide scanners that earn the ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency as outlined below. The vendor is encouraged to visit [www.energystar.gov](http://www.energystar.gov) for complete product specifications and an updated list of qualifying products.

<b>Performance Characteristic</b>	<b>Current Criteria</b>
Low-power Mode	≤ 12 watts
Low-power Mode Default Time	≤ 15 minutes



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Topics**

- **Energy Managers:** Inform facilities, IT, and procurement staffs about requirements, opportunities
- **Facilities Engineers:** Incorporate performance criteria into guide and project specifications
  - Modify service and maintenance contracts to require ENERGY STAR and FEMP products
- **Procurement Officers:** Incorporate requirements into solicitations, contracts, purchase orders
  - Inform ProCard holders of requirements



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Topics**

- **Vendors:** Know which of your products meet requirements

Upgrade to meet energy-efficiency criteria

Make sales staff aware of requirements

Identify your energy-efficient products properly in federal schedules, catalogs and online listings

Use as business opportunity



**Pit Stop:  
Timely  
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Topics**

- **All:** Go to ENERGY STAR and FEMP Web sites for program updates, performance criteria, product lists, other resources
  - ENERGY STAR Program  
888-STAR-YES (888-782-7937)  
[www.energystar.gov/products/](http://www.energystar.gov/products/)
  - Federal Energy Management Program  
800-363-3732  
[www.eere.doe.gov/femp/procurement/](http://www.eere.doe.gov/femp/procurement/)



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Kate Lewis  
(202) 343-9024  
[lewis.kate@epa.gov](mailto:lewis.kate@epa.gov)

Donald Mauritz  
(202) 646-7958  
[dlmauritz@lbl.gov](mailto:dlmauritz@lbl.gov)

Visit us at FEMP booth #315