

Environmentally Preferable Purchasing

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Environmentally Preferable Purchasing

Definition:

Acquisition of products or services that have a lesser or reduced effect on human health and the environment when compared with competing products or services that serve the same purpose.

Benefits:

- Conserves nation's resources
- Meets federal regulations
- Makes good business \$ense
- Conserves DOE's resources
- Meets DOE policy



Product Categories Designated for Preferred Procurement by Federal Agencies

Affirmative Procurement

- Biobased content
- Recycled content

Other Preferred Procurement

- Alternative fuels/vehicles
- Electronic Product Environmental Assessment Tool (EPEAT) registered electronic equipment
- Energy and water efficient
- Non-ozone depleting substances
- Sustainable building materials



Drivers for Purchasing of Green Products

- Resource Conservation and Recovery Act (recycled content), Farm Security and Rural Investment Act (biobased content), Energy Policy Act of 2005 (alternative fuels/vehicles), Clean Air Act (non-ozone depleting substances)
- Executive Orders: 13221, **13423** (replaces EO13101, 13123, 13134, 13148, 13149)
- Memoranda of Understanding:
 - Federal Electronics Challenge
 - High Performance and Sustainable Buildings
- Federal Acquisition Regulation (FAR)
- DOE Acquisition Regulation (DEAR)
- DOE Orders 450.1A and 430.2B and 413.3A
- DOE Acquisition Guide (Chapter 23)



Why Does the Government Target Itself for Green Purchasing



- U.S. consumes approximately 25% of the world's resources with 5% of the world's population
- Federal government is country's largest purchaser of goods and services: \$370 billion per year
- Government can create markets for more environmental products, leading to greater product availability and competitive pricing

Cost Comparison Examples of Green Purchasing



- Paint (latex) \$16.00/gal
Recycled paint (meets commercial paint specs) \$8.25
- Toner cartridge (Canon Machines) \$67.74
Remanufactured toner cartridge \$30.67
- Paper/ream (truck-load) \$3.13
Recycled paper \$2.55
- Binders (3" White slant "D" /w clear covers) \$11.59
Recycled binders \$6.28

Biobased Product Categories Defined by United States Department of Agriculture (USDA)

- adhesives
- carpet/fibers
- cleaners/solvents
- construction
- materials
- fuel additives
- inks
- landscaping
- lubricants
- packaging
- paint/coatings
- papers
- plastics
- sealants
- sorbents



Purchasing Preference Required by the USDA



Percentage biobased
by weight

Hydraulic fluids for mobile equipment	44%
Lubricants, penetrating	68%
Diesel fuel additives	90%
Urethane roof coating	20%
Water tank coating	59%
Bedding, bed linens, towels	12%

EPA Designated Recycled Products

Purchasing preference required for all Federal agencies:

- **Office:** binders, containers, folders, furniture, paper, toner cartridges.
- **Custodial supplies:** tissue/towels, recycle/trash containers & bags.
- **Construction:** carpet, cement, fiberboard, insulation, paint, roofing.
- **Landscaping:** compost, edging, hoses, lumber, mulch, posts, timbers
- **Park/recreation:** benches, fencing, surfaces, tables, tracks
- **Transportation:** barricades, channelizers, cones, delineators, parking stops
- **Vehicular:** coolants, parts, oil, tires
- **Miscellaneous:** awards, bike racks, drums, mats, signs, sorbents, strapping

Exceptions to Purchasing Requirements

- Cost, availability, performance
- No exceptions for paper, 30% post-consumer, if unavailable purchase 20%
- **If unavoidable conflict, recycled content takes precedence over biobased content**
- Maintain written justification on file for any products not meeting specifications if cost over \$2500, proposed legislation would require reporting these exceptions



Justification template available at HSS home page

<http://www.hss.energy.gov/pp/epp/library/exemjus.doc>

Alternative Fuels/Vehicles



- EPA Act 1992 mandates 75% of a Federal fleet's covered vehicle (under 8,500lb) acquisitions be alternative fuel vehicles (AFV)
- EPA Act 2005 Section 701d requires dual fuel vehicles be operated on alternative fuels unless waiver approved by DOE
- EO 13423 mandates
 - Reduction in fleet's total consumption of petroleum products by 2% annually through end of fiscal year 2015
 - Increase in total fuel consumption that is non-petroleum-based by 10% annually
 - Use of plug-in hybrid (PIH) vehicles when PIH vehicles are commercially available at a cost reasonably comparable



Electronic Product Environmental Assessment Tool

Green Electronics Made Easy

- Set of environmental performance criteria
Equipment meeting criteria at www.epeat.net
- Manufacturers choose tier level for products
 - Bronze = Meets 23 mandatory criteria
 - Silver = Meets 23 + 50% of voluntary
 - Gold = Meets 23 + 75% of voluntary
- More than 600 products are currently EPEAT registered
- Specifies Energy Star® certified equipment
- **EPEAT now required for all federal purchasing** The Federal Acquisition Regulations now require federal agencies to purchase at least 95% EPEAT-registered products in all relevant electronic product categories (FY08 O&T)

Energy Efficient Products

- Must specify ENERGY STAR® in all contracts per EO 13423
- Types of Products with ENERGY STAR® criteria include:
 - Appliances (clothes washers, dishwashers, freezers, refrigerators)
 - Commercial Equipment (boilers, chillers, coolers, heat pumps)
 - Construction (doors, roofing, windows)
 - Electronic/Office Equipment (computers, copiers, Monitors, printers)
 - Food service equipment (vending machines)
 - Lighting (compact fluorescent, exit signs)
 - Plumbing (faucets, showerheads, urinals, water heaters)



Water Efficient Products



- Per EO 13423, must give preference to products meeting EPA's WaterSense standards
- Types of products include faucets, irrigation control technologies, irrigation services, and toilets

Substitutes for Ozone Depleting Substances



- SNAP: Significant New Alternatives Policy
 - CAA Title VI, EPA identifies and publishes lists of acceptable and unacceptable substitutes for Class 1 and II ODS
- ODS relevant to DOE sites are cleaning solvents, fire suppression and explosion protection, refrigeration, and air conditioning
- EO 13423 prohibits use of Class I and Class II ODS in new equipment and emphasizes leak repair for refrigeration and air conditioning systems

Sustainable Buildings

- Meet or exceed statutory goals and address 5 *Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings (HPSBs)*, as outlined in the Memorandum of Understanding for HPSBs
- As required by EO 13423, have 15% of existing buildings in FY2015 capital asset building inventory meet *Guiding Principles*



EPP and FY08 Objective and Targets

What does this mean to us?

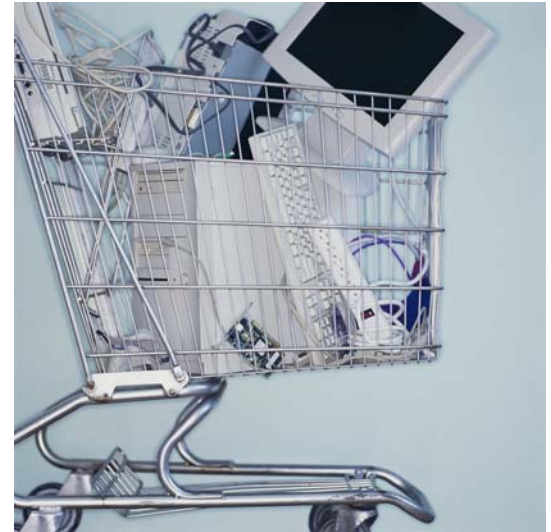
- Improve Environmentally Preferable Purchasing Program
 - Institutional web-based training outlining EPP requirements in the works for all purchasers
 - EPP SBMS subject area

- Prepare for implementation of Executive Order 13423 “Strengthening Environment, Energy and Transportation Management” (Reflected in Institutional FY08 O & T)

EPP and FY08 Objective and Targets

▪ Improve Electronics Stewardship

- Ensure 95% of desktop computers and monitors are EPEAT Bronze or higher
- Ensure ENERGY STAR features are enabled on 100% of computer monitors
- Recycle 100% of non-reusable computer units using environmentally sound recycling practices



EPP Reporting Requirements



- Recycled and Biobased Content Requirements apply to:
 - All DOE program offices and facilities, contractor-operated DOE facilities, and applicable state and local agencies receiving Federal funds
 - All acquisitions in which a product with a designated attribute is required (including micropurchases below \$2500)
- Annual EPP report submitted to DOE each November
- BNL reported \$1.1 million worth of recycled and biobased products for FY 07.