



Purchasing Green Products and Services



**Department of the Treasury
Office of the Procurement Executive
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Green Purchasing Topics

- Treasury Policy
- Federal Acquisition Regulation Policy
- Green Purchasing Categories
 - Recycled Content Products
 - ENERGY STAR and FEMP-Designated Products
 - EPEAT Registered Products
 - Energy Saving Products
 - Alternative Fuel Vehicles and Alternative Fuels
 - Biobased Products
 - Environmentally Preferable Products
 - Non-Ozone Depleting Substances
 - Low or Non-Toxic or Hazardous Chemicals



Sources of Green Purchasing Requirements

- Resource Conservation and Recovery Act (RCRA), Section 6002
- Farm Security and Rural Investment Act (2002 Farm Bill), Section 9002
- Energy Policy Act of 1992 and 2005
- Energy Independence and Security Act (EISA) of 2007
- Executive Orders 13423 and 13221
- Federal Acquisition Regulation
- Treasury Policy

Treasury Policy





Treasury Policy on Green Purchasing

- Treasury's Affirmative Procurement Program Plan fulfills the requirements of E.O. 13423 and the Implementing Instructions for E.O. 13423 concerning acquisition, use, and disposition of green products and services.
- It is the policy of the Department of the Treasury to purchase green products and services to the maximum extent practicable, to purchase biobased products to the maximum extent practicable, and to include green requirements in all contracts for services to the maximum extent practicable.
- The requirement to purchase green products and services and biobased products applies to all acquisition and contracting mechanisms used by the Department of the Treasury, including contracts for services, purchases made with government purchase cards, and purchases below the micro-purchase threshold.



Treasury Policy on Green Purchasing (continued)

- Green products and services include recycled content products, water-efficient, energy-efficient, EnergyStar® and those products with the lowest watt stand-by power, environmentally preferable products, alternative fuels, hybrid and alternative fuel vehicles, non-ozone depleting substances, renewable energy, and Environmental Protection Agency (EPA) designated items containing recovered materials.
- Biobased products include U.S. Department of Agriculture (USDA) designated biobased products.
- Bureau procurement offices are required to identify opportunities for and give preference to the acquisition of green products and services and biobased products and services.



Treasury Policy on Green Purchasing (continued)

- The following are requirements in support of Treasury's Electronics Stewardship Program:
 - Incorporation of FAR clauses for environmental and energy considerations, including the Electronic Product Environmental Assessment Tool (EPEAT), into contracts
 - Ninety-five percent of new eligible electronic products purchased or leased must be EPEAT-registered
 - Incorporation of EPEAT, environmental, and energy aspects into IT contracts
 - Maximum use of sustainable practices in acquisition of electronic products
 - Electronics stewardship training for all personnel involved in establishing requirements, soliciting, acquiring, and monitoring contractor performance of contracts for electronic products



Treasury Policy on Green Purchasing (continued)

- Training on procurement of green products and services and designated biobased products is required for all contracting personnel, contracting officer's technical representatives, and purchase cardholders.
- All acquisition plans must address how green and/or sustainable standards and performance indicators in statements of work, source selection factors, and performance-based criteria will be included in procurements.
- Acquisition plans for High-Impact Acquisitions must address the following four factors to the extent that each applies to the supplies/services to be acquired:
 - Sustainable design practices
 - Life cycle cost analysis
 - Product or packing take-back (return to manufacturer for recycling or remanufacturing purposes)
 - Maximization of energy and resource recovery in solid waste management

Federal Acquisition Regulation Requirements





Federal Acquisition Regulation

Green purchasing requirements apply to:

- Direct purchases of products
- Products supplied or used in the performance of a contract
- Micro-purchases
- Simplified acquisitions
- Purchases of commercial items



Federal Acquisition Regulation

FAR Subpart 23.4 – Use of recovered materials and biobased products

- Objective: acquire competitively, in a cost-effective manner, products that meet reasonable performance requirements and that are composed of the highest percentage of recovered materials or biobased materials practicable
- The Environmental Protection Agency designates categories of recovered materials.
- The U.S. Department of Agriculture designates categories of biobased products.



Federal Acquisition Regulation

FAR Subpart 23.4 – Use of recovered materials and biobased products (continued)

- A designated item must be purchased unless the item cannot be acquired –
 - (a) Competitively within a reasonable time frame, or
 - (b) Meeting reasonable performance standards, or
 - (c) At a reasonable price.
- There are eight EPA-designated categories of recovered materials. Information on items in these categories is available at:
www.epa.gov/epawaste/consERVE/tools/cpg/products/index.htm
- There are currently 33 USDA-designated categories of biobased products. Information on items in these categories is available at:
www.biopreferred.gov/DesignationItems.aspx



Federal Acquisition Regulation

- FAR 23.703 - Government policy on the acquisition of environmentally preferable and energy efficient products and services. Promotes cost-effective waste reduction and consideration of biobased products.



Federal Acquisition Regulation

- FAR 23.202 - The Government's policy is to acquire supplies and services that promote energy and water efficiency, advance the use of renewable energy products, and help foster markets for emerging technologies. This policy extends to all acquisitions, including those below the simplified acquisition threshold.



Federal Acquisition Regulation

Acquisition planning is required:

- Think green from the start of an acquisition.
- FAR 7.105(b)(16) requires that written acquisition plans address:
 - all applicable environmental and energy conservation objectives associated with the acquisition,
 - the applicability of an environmental assessment or environmental impact statement,
 - the proposed resolution of environmental issues, and
 - any environmentally-related requirements to be included in the acquisition



Federal Acquisition Regulation

Describing Agency Needs:

FAR Part 11 requires incorporation of green products into specifications, standards, drawings, and other documents identifying the government's needs. Consideration must be given to maximum practical use of:

- Energy-efficient products and services
- Products and services that utilize renewable energy technologies
- Products containing energy-efficient standby power
- Products containing recovered materials
- Biobased products
- Environmentally preferable products and services



Federal Acquisition Regulation

FAR Part 11 requires purchase of paper containing a minimum of 30% postconsumer fiber, including paper used by contractors to produce deliverables. Examples of contractor document submissions that should be printed and copied on recycled content paper are:

- Offer documents
- Reports and studies
- Training materials
- Publications
- Financial and technical progress reports



FAR Clauses – Recycled Content

- For recycled content paper:
 - FAR 52.204-4 Printed or Copied Double-Sided on Recycled Paper
- For affirmative procurement:
 - FAR 52.223-4 Recovered Material Certification (revised 4/22/08 to change “products” to “items”)
 - FAR 52.223-9 Estimate of Percentage of Recovered Material Content for EPA-Designated Items (Use only in contracts exceeding \$100,000; revised 4/22/08 to change “products” to “items”)
- For support services and O&M contractors:
 - FAR 52.223-10 Waste Reduction Program



FAR Clauses – Recycled Content

- FAR 52.223-17 Affirmative Procurement of EPA-designated Items in Services and Construction Contracts (effective May 22, 2008)

This clause is required for use in services and construction solicitations and contracts unless the contracts will not involve the supply or use of EPA-designated recycled content products.



FAR Clauses -- Biobased

- FAR 52.223-1 Biobased Product Certification (effective December 7, 2007)
- FAR 52.223-2 Affirmative Procurement of Biobased Products Under Service and Construction Contracts (effective December 7, 2007)

These clauses are required for use in services and construction solicitations and contracts unless the contracts will not involve the supply or use of biobased products.



FAR Clauses – ENERGY STAR and Energy Efficient Products

- FAR 52.213-4(b)(1)(viii) Terms and Conditions – Simplified Acquisitions (Other Than Commercial Items) (December 2007)
- FAR 52.223-15 Energy Efficiency in Energy-Consuming Products (December 2007)

Applies to products delivered, used in the performance of the work, furnished for government use, or specified in the design of a building or work.

These new FAR clauses implement Section 104 of the Energy Policy Act of 2005, which requires Federal agencies to purchase ENERGY STAR or FEMP-designated products unless the head of the agency certifies in writing that products meeting the agency's needs are not reasonably available or are not cost effective.



FAR Clauses – EPEAT-Registered Products

- FAR 52.223-16 IEEE 1680 Standard for the Environmental Assessment of Personal Computer Products (December 2007) (basic clause for purchasing EPEAT bronze products)
- Alternate I – Used for purchasing EPEAT silver products

These new FAR clauses implement the requirement in E.O. 13423 that when purchasing products covered by an Electronic Product Environmental Assessment Tool (EPEAT) standard, 95% of the products purchased must meet EPEAT standards. Because the EPEAT standards include ENERGY STAR requirements, purchasing EPEAT-registered products can also satisfy the requirement to purchase ENERGY STAR Products.

Green Purchasing Categories





Recycled Content Products

Legal basis: Resource Conservation and Recovery Act Section 6002, E.O. 13423

- Requirement: Purchase EPA-designated recycled content products

EPA designates recycled content products for Federal agencies to purchase and provides recommendations regarding the percentage(s) of recycled content, applicable specifications, and other useful information.



EPA's Eight Product Categories

- Vehicles
- Construction
- Transportation
- Parks and Recreation
- Landscaping
- Non-Paper Office Products
- Miscellaneous
- Paper and Paper Products

EPA designates the products in a document called the Comprehensive Procurement Guideline (CPG). The CPG is divided into the eight product categories above. To date, EPA has designated more than sixty products in these categories.



What To Buy Green

- Office products
- Printing services
- Fleet maintenance products
- Building construction, renovation, and maintenance (janitorial, landscaping) products
- Traffic control
- Parks and recreation products



Where to Buy Green

- GSA Advantage! (CPG symbol, recycling symbol)
- DoD EMALL
- AbilityOne (formerly JWOD)
- UNICOR
- Commercial sources



Where to Find More Information

www.epa.gov/cpg



ENERGY STAR and FEMP-Designated Products and Low Standby Power Devices

- Legal basis: Energy Policy Act, Energy Independence and Security Act of 2007, E.O. 13423, E.O. 13221
- Requirement: Reduce building energy use; purchase ENERGY STAR and FEMP-designated products, products that use minimal standby power; renewable energy; and EPEAT-registered products



What To Buy Green

- Electronic office products
 - Low standby power devices
 - EPEAT-registered products
- Building construction products
- Appliances (residential and commercial)
- Lighting
- Water-saving products



ENERGY STAR and Energy Efficient Products

- Energy Policy Act of 2005 requires Federal agencies to purchase ENERGY STAR and FEMP-designated energy efficient products
- Exception: Head of agency determines, in writing, that
 - Not cost effective over the life of the product or
 - No product is reasonably available that meets the agency's functional requirements



ENERGY STAR and Energy Efficient Products (Cont'd)

- Energy Independence and Security Act of 2007 requires Federal agencies to purchase products using low wattages of power in standby mode.
- Department of Energy to create a list of products and wattage levels.



ENERGY STAR and Energy Efficient Products (Cont'd)

- Energy Policy Act excludes combat or combat-related equipment
- Department of Energy, Federal Energy Management Program (FEMP) is preparing guidance



ENERGY STAR and Energy Efficient Products (Cont'd)

- New energy efficiency standards for more than a dozen consumer and commercial products, including:
 - Fluorescent lamps and lamp ballasts
 - Illuminated exit signs
 - Transformers
 - Ceiling fans/ceiling fan light kits
 - Commercial package air conditioning and heating equipment
 - Refrigerators, freezers, and refrigerator-freezers
 - Commercial ice makers
 - Commercial clothes washers



ENERGY STAR and Energy Efficient Products (Cont'd)

- Energy Independence and Security Act of 2007 added additional energy efficiency standards for various products and/or required Department of Energy or Environmental Protection Agency to establish additional energy efficiency standards.



ENERGY STAR and Energy Efficient Products (Cont'd)

- ENERGY STAR Purchasing and Procurement web site:
www.energystar.gov/purchasing

- Resources
 - Calculators to determine annual and life cycle cost savings
 - Product specifications
 - Downloadable procurement language
 - Lists of ENERGY STAR qualified products, by product type, manufacturer, model number, and features



Buying EPEAT™ Registered Products

- Update all contracts to reflect new E.O. requirement to buy EPEAT-registered products.
- Specify EPEAT-registered products in every task order.
- Use list of EPEAT-registered products at www.epeat.net.
- Buy from resellers who identify EPEAT- registered products.
- Buy from Government Wide Acquisition Contracts which identify EPEAT registered products (NASA SEWP IV, GSA)

E.O. 13423 requires agencies to meet at least 95% of their electronic product needs with EPEAT-registered products, unless there is no EPEAT standard for such product. At this time, there is an EPEAT standard for computers, monitors, and laptops.



EPEAT Tiers

- EPEAT Bronze– Meets all 23 mandatory criteria
- EPEAT Silver– Meets all mandatory criteria and at least 50% of the optional criteria
- EPEAT Gold– Meets all mandatory criteria and at least 75% of the optional criteria



Building Energy Reduction Goals

- E.O. 13423 added new energy reduction goals, compared to FY 2003 – reduce energy intensity by
 - 3% annually through end of FY 2015 OR
 - 30% by end of FY 2015
- Includes industrial and laboratory facilities
- Some exceptions provided in Energy Policy Act 2005



Federal Building Performance Standards

- If life-cycle cost effective, new buildings must be designed to achieve energy consumption levels 30% below ASHRAE Standard 90.1-2004 or the 2004 International Energy Conservation Code
- Sustainable design principles must be applied to the siting, design, and construction of all new and replacement buildings



Renewable Energy Portfolio

- Energy Policy Act of 2005: When economically feasible and technically practicable, Federal government is to use renewable energy from solar, wind, biomass, landfill gas, waves, geothermal, MSW, or new or expanded hydro sources:
 - FY 2007 – 2009 – not less than 3%
 - FY 2010 – 2012 – not less than 5%
 - FY 2013 and after – not less than 7.5%
- E.O. 13423: Buy half from “new” sources, put in place after 1/1/99



Where to Buy Green

- GSA Advantage! (ENERGY STAR symbol, EE symbol)
- DoD EMALL
- Energy Savings Performance Contracts
- Utility Energy Savings Contracts
- Commercial sources



Where to Find More Information

www.eere.energy.gov/femp/procurement

www.energystar.gov/purchasing

www.epeat.net



Alternative Fuel Vehicles/Alternative Fuels

- Legal basis: Energy Policy Act, E.O. 13423
- Requirement: Purchase alternative fuel vehicles, alternative fuels, and recycled content vehicular products; reduce petroleum consumption



Use of Alternative Fuels

Section 701 of Energy Policy Act of 2005:

- Alternative fuels must be used in dual fuel vehicles unless agency certifies and Department of Energy grants a waiver because:
 - Fuel is not available
 - Unreasonable cost compared to gasoline



Greenhouse Gases

The Energy Independence and Security Act of 2007 addresses greenhouse gas emissions:

- Purchase light duty motor vehicles or medium duty passenger vehicles that are “low greenhouse gas emitting,” as determined by EPA
- Alternative or synthetic fuels must have lifecycle greenhouse gas emissions from production and combustion that are lower than that of conventional fuels



What To Buy Green

- Alternative fuel vehicles
- Neighborhood electric vehicles
- Alternative fuels (e.g., ethanol, CNG, LNG, biodiesel)
- EPA-designated recycled content vehicular products



Where to Buy Green

- GSA (vehicles)
- Defense Energy Support Center (ethanol, biodiesel)
- Defense Supply Center Richmond (re-refined oil)
- Commercial sources



Where to Find More Information

www.eere.energy.gov/vehiclesandfuels/epact



Biobased Products

- Legal basis: Farm Security and Rural Investment Act of 2002 Section 9002, E.O. 13423
- Requirement: Purchase USDA-designated biobased products

The purchase of biobased products is the newest component of the Federal green purchasing program. The objective is to create and sustain markets for products made with biobased feedstocks, including agriculture-based feedstocks and recovered forestry materials.



Biobased Products

USDA Designations Round 1 (3/16/06)

- Mobile equipment hydraulic fluids*
- Urethane roof coatings
- Water tank coatings – effective 11/20/07*
- Diesel fuel additives*
- Penetrating lubricants*
- Bedding, bed linens, towels – effective 11/20/07

* excluding combat, combat-related, and space-related applications



Biobased Products (cont'd)

USDA Designations Round 2 (5/14/08)

- Adhesive and Mastic Removers
- Disposable Containers
- Fluid-Filled Transformers
- Composite Panels
- Fertilizers
- Grease and Graffiti Removers
- Hand Cleaners and Sanitizers
- Plastic Insulating Foam for Residential and Commercial Construction
- Sorbents



Biobased Products (cont'd)

USDA Designations Round 3 5/14/08

- 2-Cycle Engine Oils
- Disposable Cutlery
- Films
- Carpet and Upholstery Cleaners
- Carpets
- Dust Suppressants
- Glass Cleaners
- Greases
- Stationary Equipment Hydraulic Fluid
- Lip Care Products



Biobased Products (cont'd)

USDA Designations Round 4 (5/14/08)

- Bathroom and Spa Cleaners
- Concrete and Asphalt Release Fluids
- Metalworking fluids
- General Purpose De-Icers
- Firearm Lubricants
- Floor Strippers
- Laundry Products
- Wood and Concrete Sealers



Where to Buy Green

- GSA Advantage! (biobased symbol)
- Defense Energy Supply Center
- DoD EMALL
- AbilityOne (formerly JWOD)
- Commercial sources



Where to Find More Information

USDA:

www.usda.gov/procurement/programs/biopreferred.htm

www.usda.gov/biopreferred

OFEE:

www.ofee.gov Click on Green Purchasing, then click on Biobased Products



Environmentally Preferable Products

- Legal basis: E.O. 13423
- Requirement: Purchase environmentally preferable products and services

Prior to E.O. 13423, the purchase of environmentally preferable products and services was voluntary. E.O. 13423 made it mandatory. The Implementing Instructions for E.O. 13423 directs agencies to purchase environmentally preferable janitorial products and services, building construction and renovation products and services, landscaping products and services, EPEAT-registered products, desktop office supplies, and meeting and conference services.



What To Buy Green

- Office products (e.g., copier paper containing 30% postconsumer fiber, bleached without chlorine, and wrapped in recyclable ream wrappers)
- Electronic office equipment
 - EPEAT-registered equipment
- Meeting and conference services
- Building renovation, construction, and maintenance (janitorial, landscaping) products



Where to Buy Green

- GSA Advantage! (trees symbol)
- DoD EMALL
- AbilityOne (formerly JWOD)
- UNICOR
- Commercial sources



Where to Find More Information

www.epa.gov/oppt/epp



Non-Ozone Depleting Substances

- Legal basis: Clean Air Act, E.O. 13423
- Requirement: Purchase alternatives to ozone depleting substances
- SNAP -- EPA's Significant New Alternatives Policy Program identifies alternatives to ozone-depleting substances and provides lists of acceptable and unacceptable substitutes. The web site provides information on product alternatives.



What To Buy Green

- Refrigeration and Air Conditioning
- Foam Blowing
- Solvent Cleaning
- Fire Suppression and Explosion Protection
- Aerosol Solvents and Propellants
- Sterilants
- Tobacco Expansion
- Adhesives, Coatings, and Inks



Where to Buy Green

- GSA Advantage! (SNAP symbol)
- DoD EMALL
- Commercial sources



Where to Find More Information

www.epa.gov/ozone/snap/lists/index.html



For More Information

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