



Monitoring Sustainable Acquisition by the US Department of Energy

Shabnam Fardanesh
Office of Health, Safety and Security's
Office of Sustainability Support





What does Federal Policy require?



Federal policy requires DOE and its contractors to purchase sustainable products to:

Reduce or eliminate waste at the source



Promote the use of nontoxic or less toxic substances



Implement conservation techniques



Reuse materials rather than put them into the waste stream





Requirements Affecting DOE Operations



Legislative

- **RCRA 6002** – Resource Conservation and Recovery Act of 1976, Section 6002
- **FSRIA** – Farm Security and Rural Investment Act of 2002, Section 9002
- **EPAAct** – Environmental Policy Acts of 1992 and 2005

Executive

- **E.O. 13221** – Executive Order on Energy Efficient Standby Power Devices; 2001
- **E.O. 13423** – Executive Order on Strengthening Environmental, Energy, and Transportation (rescinded E.O. 13101); 2007
- **E.O. 13514** - Executive Order on Leadership in Environmental, Energy, and Economic Performance; 2009

Departmental

- **DEAR** – Department of Energy Acquisition Regulation 970.5223-7 (Mgt Contractors), 952.223-78 (Other On-Site Contractors)
- **FAR** – Federal Acquisition Regulation FAR 23 (Requirements), 52.223 (Template Language Clauses)
- **DOE Orders** on Acquisition of Capital Assets (413.3A) and Sustainability (436.1)



Federal Purchasing Power



The Federal government purchases goods and services totaling \$500 billion annually. This purchasing power can be used to help shape the market for greener and cleaner goods and services.

Examples:

Non-toxic construction materials

Green electronics

Post-consumer recycled-content copy paper

Remanufactured toner cartridges

Biobased cleaning products



Sustainable Acquisition Supports a Wide Variety of Federal Sustainability Goals



Green House Gas (GHG) reduction

- Scope 1 and 2 – energy efficiency/renewable energy
- Scope 3 – Site GHG inventories, products, waste



Green building



Water use efficiency and management



Pollution prevention



Electronic stewardship



Fleet





DOE Operations Affected by Sustainable Acquisition Requirements



Cafeteria



Custodial



Landscaping



Office



Shop (Machine)



Construction, Clean-up
& Remediation



Fleet



Maintenance



Shipping & Packing



DOE Order 436.1



DOE sites must use Environmental Management Systems (EMS) as a platform for Site Sustainability Plan (SSP) implementation and programs with objectives and measurable targets that contribute to DOE meeting its sustainability goals.

An EMS is not a single “document” but rather a set of procedures to structure the management of environmental issues. It is used as a framework to the SSP.

DOE sites are expected to include sustainable acquisition in their EMS.





Three Pillars to Building an Effective Sustainable Acquisition Program



Pillar 1

- Using the EMS to develop and implement a sustainable acquisition strategy.

Pillar 2

- Integrating sustainable acquisition requirements and specifications into contracts.

Pillar 3

- Purchasing goods and services that meet the sustainable acquisition requirements



Pillar 1



Using the EMS to develop and implement a sustainable acquisition strategy.





Integrating Sustainable Acquisition in EMS



Environmental Management System

Addresses environmental aspects related to site operations and activities

Acts as a framework for achieving your SSP goals

Integrating Sustainable Acquisition in the EMS



Ensure procurement staff representatives are on the EMS team

Integrate SSP goals and the Sustainable Acquisition component of the EMS

Follow the EMS "plan-do-check-act" model to confirm full integration of sustainable acquisition

[Check out EPA's *Integrating Green Purchasing into Your Environmental Management System*](#)



Steps Toward Building a Sustainable Acquisition Strategy in Your EMS





Pillar 2



Integrating sustainable acquisition requirements and specifications into contracts.





Requirement to Integrate Sustainable Acquisition in Contracts entered by DOE



Ensure that 95% of new contract actions specify:

- *Biobased content*
- *Energy-efficient*
- *Environmentally preferable*
- *EPEAT-registered electronics products*
- *Non-ozone depleting*
- *Non-toxic or less toxic alternatives*
- *Recycled content*
- *Standby power*
- *Water-efficient*

Where such products and services meet agency performance requirements.

Source: Executive Order (E.O.) 13514, *Federal Leadership in Environmental, Energy, and Economic Performance*; Federal Acquisition Regulation (FAR) 23 & 52.223



Best Practices Example: Building Lease



- Incorporate in building lease the same FAR 52.223 template language as in other contracts
- Of specific interest to include in leases are:
 - Biobased cleaning products
 - Remanufactured/biobased, low volatile organic compound paint
 - Recycled/biobased content flooring
 - ENERGY STAR/FEMP compliant lighting
 - Restriction on building furnishings with potential to affect staff health, such as vinyl flooring and office furniture that contains formaldehyde or other volatile organic compounds
 - Availability of recycling service



Pillar 3



Purchasing goods
and services that meet the
sustainable acquisition
requirements





Basic Principles of Sustainable Acquisition



Before Purchasing



Reduce purchases

Reuse products



When Purchasing

Seek products that conserve resources, save energy, lower water use, and reduce health and environmental impacts

Use life-cycle information to select more sustainable products by looking at upstream and downstream impacts



DOE's Sustainable Acquisition Working Group (SAWG)



- The working group reviews new sustainable products to ensure reliability and high standards.
- Sites also use the SAWG platform to share acquisition experiences and success stories.



Resources and Tools Typically Used



- **Alternative Fuels/Vehicles**
http://www1.eere.energy.gov/femp/program/fedfleet_management.html
- **Biobased Products** <http://www.biopreferred.gov/>
- **Commit to Efficiency Campaign:**
<http://www1.eere.energy.gov/femp/services/commit.html>
- **Electronic Equipment** <http://www.epeat.net/>
- **Energy/Water Efficient Products**
http://www.energystar.gov/index.cfm?c=bulk_purchasing.bus_purchasing
www1.eere.energy.gov/femp/technologies/eep_purchasingspecs.html
- **Federal Electronics Challenge** <http://www.Federalelectronicschallenge.net/>
- **GSA's Green Products Compilation:** <http://sftool.gov/GreenProcurement>
- **Non-Ozone Depleting Substances** <http://www.epa.gov/docs/ozone/snap/>
- **Recycled Products**
<http://www.epa.gov/epawaste/consERVE/tools/cpg/products/index.htm>
- **Sustainable Buildings** <http://www.wbdg.org/>
- **Water Efficient Products** <http://www.epa.gov/watersense/products/index.html>



DOE's GreenBuy Program





About GreenBuy



- The GreenBuy program was launched in 2010 to recognize DOE sites for excellence in “green purchasing” that extends beyond minimum compliance requirements.
- It recognizes DOE sites for purchasing products that save energy, conserve water, and reduce health and environmental impacts.
- By participating in the GreenBuy Program, DOE sites contribute toward improving the marketplace for greener products and reducing the overall environmental impact of the Department’s operations.



GreenBuy Program & The Priority Products List



- DOE and other Federal agencies are required to preferentially purchase products that are **energy efficient**, **water efficient**, made from **biobased** or **recycled** content, are **non-toxic** or **less-toxic** than conventional alternatives, and registered to the **Electronic Product Environmental Assessment Tool (EPEAT)**.
- To help navigate this large and in some cases, overlapping set of requirements, DOE developed the “Priority Products List” to identify products that are frequently purchased by DOE facilities with strong sustainability attributes.
- The GreenBuy Program incentivizes DOE sites to identify, purchase, and track their use of sustainable products by using the Priority Products List as a guide.



Priority Products List



- The Priority Products list is the backbone of the GreenBuy program. Sites must purchase products using the Priority Products List to qualify for the GreenBuy Recognition Program.

The list of 50 products in 7 categories was developed by the DOE Sustainable Acquisition Working Group after extensive research and review of dozens of green product categories.

- Listed products go beyond compliance to embody leadership-level sustainability attributes.
- The Priority Products List can be found on the GreenBuy homepage at: <http://www.hss.doe.gov/sesa/sustainability/epp/greenbuy.html>



Priority Products Categories



- Cafeteria
- Construction
- Custodial
- Grounds/Landscaping
- Office
- Operations/Fleet/Shipping/Shop
- Other categories that meet specifications:
 - Specific to site
 - Reduces purchasing



GreenBuy Recognition Program



- Award levels
 - **Gold:** 9 products in 5 categories (3 must be FEMP or Energy Star products on Priority Products list)
 - **Silver:** 6 products in 3 categories (2 must be FEMP or Energy Star products on Priority Products list)
 - **Bronze:** 3 products in 2 categories (1 must be FEMP or Energy Star product on Priority Products list)
- No recognition for same level 2 consecutive years except for Gold
- May only report up to 3 of the same products from previous year
 - Automatic nomination by reporting on voluntary priority products goals
 - Supports the Federal Energy Management Program's (FEMP) Commit to Efficiency Campaign



DOE HQ Sustainable Acquisition Information Team



- [The Office of Sustainability Support](#) provides assistance to DOE sites in meeting sustainability goals and implementing an effective EMS.
- [The Sustainability Performance Office \(SPO\)](#) oversees Departmental sustainability goals required by Executive Order 13514, Executive Order 13423, and related Federal laws and regulations.
- [The Federal Energy Management Program \(FEMP\)](#) provides support to government agencies in meeting energy related goals.
- [Procurement and Contracting](#) provides guidance to the sites on contracting regulations and procedures.



HQ Contacts for Sustainable Acquisition Support



Sustainable Acquisition Program Information

DOE Office of Sustainability Support (HS-21)

(GreenBuy Program, Sustainable Acquisition Working Group, Electronics, EMS)

Shab Fardanesh, 202-586-7011 shabnam.fardanesh@hq.doe.gov

DOE Sustainability Performance Office (SPO)

(Site Sustainability Plans)

Paul Estabrooks, 202-586-2674 paul.estabrooks@ee.doe.gov

DOE Federal Energy Management Program (FEMP)

(Commit to Efficiency Campaign)

Amanda Sahl, 202-586-1662 amanda.sahl@ee.doe.gov

Sustainable Acquisition Contracts Information

DOE Office of Procurement & Project Management (MA-611)

(Sustainable Acquisition Advocates)

Jason Taylor, 202-287-1945 jason.taylor@hq.doe.gov