Department of Defense
Green Procurement Program and Biobased Products

JSEM Conference

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Presentation Overview

- DoD’s Green Procurement Program
- Executive Order 13423 Highlights
- DoD’s GPP and Biobased Products
- DoD Success Stories
- DoD’s Priorities and Initiatives
Green Procurement Program

• DoD established a GPP policy and strategy in August 2004
  – Guidance for the acquisition of environmentally preferable products and services in accordance with federally-mandated “green” procurement preference programs
  – Each DoD Component has issued a GPP policy and plan

• DUSD(I&E) and DUSD(AT&L)/DPAP are co-stewards of DoD’s GPP

• Green purchasing required by statutes, Executive Orders, regulations, and policy
DoD’s Green Procurement Program

• Educate Department employees on the GPP
• Increase purchases of green products and services
• Reduce the amount of solid waste generated
• Reduce consumption of energy and natural resources
• Expand markets for green products and services

DoD’s GPP Goal = 100% compliance with mandatory federal
GPP programs in all acquisition transactions
GPP Drivers

- Farm Security and Rural Investment Act (2002), Section 9002
- Resource Conservation and Recovery Act, Section 6002
- Federal Acquisition Regulation (FAR)/Defense Federal Acquisition Regulations Supplement (DFARS)
  - Designation of Biobased Items for Federal Procurement; Final Rule (2006)
- Comprehensive Procurement Guidelines for Products Containing Recovered Materials, 40 CFR Part 24
E.O. 13423 Highlights

- E.O. 13423 requires federal agencies to:
  - Improve energy efficiency and reduce energy and water consumption intensity
  - Purchase at least half of the renewable energy from sources placed into services after January 1, 1999, when meeting EPAct requirements
  - Provide GPP training
  - Purchase green goods and services
  - Reduce the quantity of toxic and hazardous chemicals and materials
  - Incorporate waste prevention and recycling into daily operations
  - Comply with the Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings for new construction
E.O. 13423 Way Forward

- DoD’s implementation of E.O. 13423:
  - Identify a Senior Official
    - DSD memo February 2007
  - Establish a senior level IPT
    - Chaired by ADUSD(ESOH)
    - Facilitate initiatives and cut across boundaries
  - Develop an implementation matrix
    - Identifies Executive Order requirements
    - Current efforts in this area
    - Future plans to address the requirements
    - Gaps
  - Promulgate a DoD-wide implementation plan
DoD’s GPP and Biobased Products

• Biobased products provide a sound alternative in a variety of DoD operations and applications

• Biobased items replace non-renewable fossil energy-based products derived from imported oil and natural gas

• DoD supports the USDA’s efforts to promote biobased products

• DoD intends to expand its use of biobased products based on successes already achieved
USDA Biobased Designated Items

- USDA is designating biobased items for federal procurement under the Farm Bill, section 9002

- USDA will designate items in nine rounds
  - Round 1: Finalized March 16, 2006
    - Federal purchasing must begin March 16, 2007
  - Rounds 2, 3, and 4: Currently in the draft stages

- Round 1 included six items:
  - Mobile equipment hydraulic fluids; roof coatings; water tank coatings; diesel fuel additives; penetrating lubricants; and bedding, bed linens, and towels
DoD Success Highlights

- **Biobased Product Event at the Pentagon, Sept. 06**
  - Showcase and educational event to promote the purchase and use of biobased products
  - Facilitate information sharing among the biobased product industry
  - Supported DoD’s GPP and the 2002 Farm Bill, which require the establishment of procurement preference programs for biobased products
DoD Success Highlights

• More than 155 U.S. military facilities are switching to a biobased transformer coolant fluid
  – Soy-based product, does not contain petroleum
  – Transformers, like those at Lamberts Point Deperming, are located near waterways so biobased fluids are safer for marine life

• Portsmouth Naval Shipyard
  – Switched to a biobased paint stripper that is used on submarine renovations
  – The product reduces health risks, is environmentally-friendly, and requires less extensive controls
DoD Success Highlights

• Seymour Johnson Air Force Base
  *2005 Closing the Circle Awards Honorable Mention*
  – Use a biobased floor scrubber on airplane hanger floors
  – Product has significantly reduced phosphate content and neutralized pH of the discharge into their local community wastewater system

• U.S. Army Garrison Fort Monmouth
  – Energy and cost reduction program designed to utilize sustainable geothermal energy and advanced lighting and control technology
  – Total first year annual savings: $1.4M
  – Projected savings over 22 years: $53M
DoD Success Highlights

• Air Force Successes in Alternative Fuel and Fuel Conservation in Transportation

  *2007 Closing the Circle Awards Honorable Mention*

  – Conservation and alternative energy use integrated into all activities, making energy a consideration in every aspect of operations and acquisition
  – B-52 flight test and ground vehicle biobased fuel use
  – Earned AFV acquisition credits amounting to 117% of its covered vehicle acquisitions
    o 42 percentage point higher than EPAct mandate

Edwards AFB tests alternative jet engine fuel in B-52, September 2006
DoD Success Highlights

- Pentagon Renovation
  Sustainable Design/Green Building
  *2007 White House Closing the Circle Award Winner*
  - Energy and water efficient products
    o Low-maintenance landscaping
  - Recycled content materials
    o Over 85% of construction waste was diverted
    o Over 13% recycled content materials used in the building
  - Indoor Air Quality
    o Green housekeeping plan to reduce toxic chemical use
DoD’s Priorities and Initiatives

• EO Implementation

• Update the DoD GPP Strategy

• Update GPP Training (DAU)

• Increase awareness and promote the purchase and use of green products and services

• Incorporate GPP-related FAR/DFARS clauses into our contracts
  – New FAR cases include EPEAT, energy, recovered materials, and biobased products

• Incorporate new environmental attributes into DLA’s automated procurement system (DoD EMALL)
DoD’s GPP Workgroup

• Collaborates across the Department
  – Federal reporting requirements
  – Training
  – Executive Order compliance

• Promotes and integrates DoD’s GPP
  – Use of biobased products across all levels of the Department

• Developed a GPP communication portal on DENIX to:
  – Engage the DoD community in the implementation of all green procurement initiatives

Questions?

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For more information, visit the Defense Environmental Network and Information eXchange (DENIX) at: www.denix.osd.mil