Size and Scope of DoD

31 DoD Components: Military Departments + 28 others

- # Buildings (owned+ leased): >300,658
- # Vehicles (non-tactical): >197,000
- # Locations (global): 5,000
- Fossil-Fuel Use (facilities): >200 Billion Btu

Covered by DoD SSPP

- DoD Facilities 18%
- Other USG 35%
- DoD Ops 47%
Relation of Sustainability to DoD Mission

Energy and Reliance on Fossil Fuels
- Risk to forces delivering fuel
- Insecurity & volatility in supply & price
- Vulnerability of electrical grid

Potable Water Resources
- Risk to forces delivering water
- Essential ingredient for military operations, human health
- Scarcity exacerbates tensions in regions prone to conflict
- Reliability can effect base operations and fielding choices
Relation of Sustainability to DoD Mission

**Toxic and Hazardous Materials**
- Harms the health of humans & ecosystems
- Impairs readiness and impacts training areas
- Increases cleanup & handling costs
- Additional operational restrictions
- Hampers the continued availability of mission critical chemicals

**Vulnerability to Climate Change**
- Can limit outdoor training
- Reduces fresh water supply
- Sea level rise affects infrastructure and diversity of training habitats
- Damages ecosystems
- Increases smog (ozone)
- Strains electricity supply
- Causes vector borne diseases
- Increases frequency & intensity of wildfires
Executive Order 13693:
Planning for Federal Sustainability in the Next Decade

- Issued March 19th, 2015

- Emphasis on Carbon Footprint Reduction

- “Promote sustainable acquisition and procurement by ensuring that each of the following environmental and sustainability factors are included to the maximum extent practicable for all applicable procurements in the planning, award and execution phases of the acquisition by:”

  - Bio Preferred/Bio Based Products
  - Recycled Content
  - SNAP (non toxic/less toxic, non ozone depleting)
  - Safer Choice labeled products
  - WaterSense
  - ENERGY STAR or FEMP
  - EPP
  - SmartWay
Sustainable Procurement Drivers

**There are significant “Regulatory 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)
- Presidential Memorandum Biobased and Sustainable Product Procurement (2012)

**But most importantly are the “Mission Drivers”…**
- Can help effective operational performance
- Can improve availability of mission-oriented products
- Can reduce energy dependence (foreign oil)
- Can reduce life cycle cost
NDCEE Task: Regional Pilot Demonstrations

• Based on information collected in surveys and site visits, sustainable product need areas will be identified for regional pilot demonstrations.
  - Identify target performance requirements
  - Identify and evaluate alternative sustainable green products versus target requirements
  - Demonstrate products in an operational environment

Biobased Hydraulic Fluid Demonstration - Marine Corps Mountain Warfare Training Center
Third-Party Certification

Call for Manufacturer Participation!

- Reduce Greenwashing in products sold to DoD
- Provide transparent sustainability information in one easy to read format
- Educate procurement personnel on what is and what is not a sustainable product
- Products perform AND are sustainable
Sustainable Procurement Support for Military Installations

https://www.denix.osd.mil/spc/

Welcome to the New Department of Defense Sustainable Products Center

DoD’s Sustainable Products Center (SPC) is an independent virtual center or focal point that integrates information on sustainable products and services as DoD’s informational repository for these products and their respective performances to include demonstrations of alternative green products and services conducted at DoD installations.

- The Defense Environmental Network and Information Exchange (DENIX) will host the SPC website.
- The SPC Team will conduct outreach activities to include site visits to various military installations in order to collect information on areas of need for sustainable alternatives.
- The Team will identify and evaluate Sustainable Alternatives against existing Military Specifications or Government requirements, and then select the viable candidates for Pilot demonstrations at DoD installations in which the proposed sustainable alternatives will be evaluated side by side with the currently used non-sustainable ones.
- The SPC Website will host demonstration results, success stories, technical data and lessons learned and the DoD SPC Database (information repository), accessible via the SPC Website, will contain data on the new sustainable alternatives.

The SPC also serves as a forum for DoD personnel to submit questions regarding sustainable procurement and to share success stories. The intent of these actions is to improve compliance with FAR and DoD policies while increasing sustainable offerings and enhancing mission readiness.

Last Modified: 24 February 2014 at 10:30
Base Sustainability Expos

- Education of Installation Personnel
- Sustainable Product Notoriety
- Opportunity for manufacturers
GreenCircle Certified, LLC

Assuring Accountability in Today’s Evolving Market
GreenCircle Certifications

Recycled Content
Carbon Footprint Reduction-Product or Operations
Closed Loop Product
Life Cycle Assessment (LCA) Optimized
Recyclable Materials
Renewable Resource Content
Sustainable Manufacturing Practices
Renewable Energy Use
Waste Diversion from Landfill
Certified Environmental Facts (Multi-Attribute)
Sustainable Biodiesel Certification
HPD Verification-Pilot
Certified Energy Savings-Product
Supply Chain Auditing Services (REACH, RoHS, Dodd Frank, etc.)
GreenScreen LEED v4 Compliance Certification
## GreenCircle Multi-Attribute

**Certified Environmental Facts**

**Company:** Your Company  
**Product:** Your Product  
**Plant Location:** Your Plant Location

### Product Specific:
- **Recycled Content:** 67%  
- **Renewable Resource Content:** N/A  
- **Regional Raw Material Sourcing:** 57%  
- **Carbon Footprint Reduction - Product:** 36%  
- **Recyclable Material:** 4%  
- **Completed LCA/EPD:** Yes - Published LCA  
- **Closed Loop Recycling Program:** Yes

### Manufacturing Specific:
- **Carbon Footprint Reduction - Facility:** 12%  
- **Reduced Waste:** 85%  
- **Reduced Water Usage:** 11%  
- **Reduced Energy Usage:** 7%  
- **Waste Diversion from Landfill:** 92%  
- **ISO 14001 Certified:** Yes

### Evaluation Period:
- **Evaluation Period:** 20XX - 20XX  
- **Certification Number:** XX-XXXX  
- **Certification Period:** X/X/20XX - X/X/20XX  

For more information on the Certified Environmental Facts of this product, please contact: info@GreenCircleCertified.com  
www.GreenCircleCertified.com

Manufacturers, suppliers, regulators, and consumers can be assured that products labeled with the GreenCircle Certified mark have been thoroughly assessed and their claim verified.
Objective:

• Demonstrate the effectiveness of the multi-attribute label by using third party scientifically verified, real life product and operation scenarios.

• Streamline the multi-attribute verification process and label to be used within government procurement.

• Assess manufacturers’ claims and ensure their compliance with internationally recognized standards.

• Provide feedback to other Federal organizations
  - How this effort can assist in Federal procurement
  - Increase End user awareness of sustainable procurement programs in the future.

End Goal:

• Develop a system so simple that all procurement agents will have to look for is a “green dot” signifying that a product is sustainable.
Federal Procurement Survey Summary

- Worked in conjunction with GSA, DLA, Deputy under Secretary of Defense office, and NDCEE (CTC)
- Pilot Survey visits to: 29 Palms and Joint Base Lewis-McChord (May 19-22, 2014)
- Over 30 participants in survey
- Overwhelmingly positive responses!
In General, Survey Participants Found that the Label is:

- Informative: 40%
- Makes comparing products easier: 20%
- Provides the right amount of information: 10%
- Provides too much information: 5%
- Transparent: 5%
- Confusing: 5%
- Makes comparing products more difficult: 2.5%
- Provides too little information: 2.5%
Survey Respondents try to Purchase Green, Sustainable, and/or Environmentally-preferable Products:

- **Always**
- **Sometimes**
- **Never**
Product Attributes, Survey Respondents Rating on Whether the Attribute Should be Included on the Label:

- Recycled Content
- ENERGY STAR
- USDA BioPreferred Product
- Non-toxic or Less-toxic Alternatives
- Biobased Content
- Take Back Recycling Program
- Non-ozone Depleting
- Water Efficient Product
- Federal Energy Management Program (FEMP)
- Environmentally Preferable
- Electronic Product Environmental Assessment Tools
- Design for Environment (DfE)

Options:
- Exclude
- Indifferent
- Include

Percentage distribution:
- Recycled Content: Include
- ENERGY STAR: Include
- USDA BioPreferred Product: Include
- Non-toxic or Less-toxic Alternatives: Include
- Biobased Content: Include
- Take Back Recycling Program: Include
- Non-ozone Depleting: Include
- Water Efficient Product: Include
- Federal Energy Management Program (FEMP): Include
- Environmentally Preferable: Include
- Electronic Product Environmental Assessment Tools: Indifferent
- Design for Environment (DfE): Include

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Packaging Attributes, Survey Respondents Rating on Whether the Attribute Should be Included on the Label:

- Recyclable
- Recycled Content
- Biodegradable or Compostable
- Take Back Recycling Program
- Material Use Reduction

0% 20% 40% 60% 80% 100%

Exclude
Indifferent
Include

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Manufacturing Attributes, Survey Respondents Rating on Whether the Attribute Should be Included on the Label:

- Reduced Energy Usage
- Reduced Waste
- Renewable Energy Usage
- Reduced Water Usage
- Waste Diversion from Landfill
- Carbon Footprint Reduction

Options:
- Exclude
- Indifferent
- Include

Survey responses in percentages:
- Reduced Energy Usage: 60%
- Reduced Waste: 40%
- Renewable Energy Usage: 50%
- Reduced Water Usage: 70%
- Waste Diversion from Landfill: 60%
- Carbon Footprint Reduction: 50%
Next Steps/ Benefits of Multi-Attribute Certification in Federal Procurement

Announced:
• January 2015 - Call for Manufacturer’s to participate

Additional Efforts:
• Cross Promotional efforts with other Federal Government Agencies (GSA, DOE, DHS)

Goals:
• Streamline sustainability information into one easy to read format to help educate procurement agents on sustainability
• Further develop procurement process within DoD

Benefits of Participation:
• Recognition and promotion of products to bases and procurement agents
• Ability to market participation in shaping future procurement within federal government
• Products added to Sustainable Products Center
• Ability to demonstrate products at different bases to increase visibility and sales
Questions?

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