Defense Logistics Agency
Support for Environmental Sustainability

Karen Moran
May 12, 2011
**Defense Logistics Agency Support for Environmental Sustainability**

**PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)**
Defense Logistics Agency, Environmental Office, Fort Belvoir, VA 22060

**SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)**

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**ABSTRACT**

**SUBJECT TERMS**

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**NAME OF RESPONSIBLE PERSON**
Defense Logistics Agency Support for Environmental Sustainability

Products and Services Supporting Environmental Requirements

Karen Moran (presenter)
Prepared for NDIA Environment, Energy Security and Sustainability Symposium
New Orleans LA
May 12, 2011
To Be Covered Today

- Background on DLA
- Environmentally-oriented Services from DLA
- Green Product Highlights from DLA
- Environmental Attributes
- Green Shopping on DOD EMALL
Full Spectrum Global Support

Supply Chains
- Land Systems
- Maritime Systems
- Aviation Systems
- Fuel/Energy
- Subsistence
- Medical
- Clothing & Textile
- Construction & Equip

Distribution
- 26 Distribution Centers
- $98B DoD Inventory
- 52M sq ft covered storage

Disposition Services
- Co-located with customers
- Over $25B per year
- Reutilization & Marketing
- Reverse Logistics

Strategic Materials
- Critical items such as titanium, cobalt, and tungsten

Theater Support
- DLA Europe & Africa
- DLA Pacific
- DLA Central

Services
- Document Services
- Logistics Information Service
- Transaction Services
We Are DLA

- **America’s Combat Logistics Support Agency**
  - 25,340 Civilians, 559 Active Duty Military, 759 Reservists
  - Located in 48 States/28 Countries

- **Global Support To Warfighters by:**
  - Processing an average of 116,087 requisitions per day
  - Producing an average of 10,987 contract lines awarded per day
  - Staffing 26 Distribution Depots Worldwide
    - Processed 22.8M Receipts and Issues during the past 12 months
  - Managing nearly 5M items through eight supply chains
  - Supporting more than 1,900 Weapon Systems
  - Providing nearly 84% of Services’ repair parts
  - Providing 100% of Services’ subsistence, fuels, medical, clothing & textiles, construction & barrier material
We Are DLA

in Elite Company

• FY04-FY10 sales/services of $28-$41B
  – #51 on the Fortune 500 list
  – FY 11 projected revenue of $41.5B
  – Third largest storage capacity of the top 50 Distribution Warehouses (Only FedEx and UPS have more)
  – 130M Barrels of Fuel sold in FY 10 and 129M in FY 09
  – Reused, transferred, disposed and donated nearly 26B per year in material across the supply chain

• Our reach extends far beyond DoD
  – Foreign Military Sales program supports 118 Nations
  – $1.6 B in Sales and 585K shipments in FY10
  – Supports Worldwide Humanitarian Relief
    • Federal Emergency Management Agency
    • Other federal and designated state and local customers
Global Supply Chains

Troop Support
- **Class I: Subsistence**
  - Food Service
  - Produce
  - Operational Rations
- **Class II: Clothing & Textile**
  - Recruit Clothing
  - Organizational Clothing & Individual Equipment

- **Class IV/VII: Construction & Equipment**
  - Facilities Maintenance
  - Equipment
  - Wood Products
  - Safety & Rescue Equipment

- **Class VIII: Medical**
  - Pharmaceutical
  - Medical/Surgical Equipment

Aviation
- **Class IX:**
  - Engine Components, Air Frames
  - Flight Safety Equipment, Maps
  - Environmental Products

Land and Maritime
- **Class IX: Maritime**
  - Valves, Fluid Handling
  - Electrical/Electronics
  - Motors, Packing/Gaskets

- **Class IX: Land**
  - Wheeled, Tracked & Heavy Vehicle Parts
  - Vehicle Maintenance Kits
  - Power Transmission/Engine/Suspension Components
  - Tires, Batteries and Small Arms Parts

Energy
- **Class III: Energy**
  - DoD Executive Agent for all Bulk Petroleum
  - Natural Gas, Coal, Electricity
  - Aerospace Energy
DLA offers Services that are Environmentally-oriented

- Energy support
- “Buying Green” course
- Hazardous Material Information Resource System
- Hazardous Technical Information Services
- DOD Shelf Life Program
- Disposal – including electronics, pharmaceuticals
- Ozone Depleting Substances Reserve
- Document Services
Types of Environmental Services Available to DoD Customers from DLA Energy

- Funding of recurring environmental compliance costs at Service fuel facilities:
  - Operating fees, co-operative fees, response plans, waste disposal, sampling and testing
- Funding of environmental projects
  - Environmental compliance projects
  - Spill cleanup projects
- POC: 703-767-8318, DSN 427-8318
Renewable Energy

- **Requirements:** Energy Policy Act of 2005, Title II, Renewable Energy, Sec. 203, Federal Purchase Requirements -- “to the extent economically feasible and technically practicable”, of total amount of electric energy the Federal Gvt. consumes, renewable energy shall be:
  - Not less than 3% in FY07 through FY09
  - Not less than 5% in FY10 through FY12
  - Not less than 7.5% in FY13 and each year after

- **Renewable Energy Certificates (RECs):** The need to meet short term goals is being accomplished by the purchase of RECs, also known as Green Tags
  - RECS are not the power itself but represent the environmental attributes of power generated by renewable sources.
Renewable Energy (continued)

• **Renewable Energy Certificates** (continued)
  – Can be purchased and used nationally from renewable projects across the United States
  – Least cost current means to achieve the goals
  – Currently supports DoD, DOE, DOC, IRA, EPA, VA, USPS, NASA
  – Continuing to purchase RECs for those in need

• Contracting expertise for long-term power purchase agreements stemming from renewable energy project development

• DOD and Federal customers/partners

• Pilot Projects are underway with various DOD and Federal civilian agencies for solar and geothermal technologies

Contact DLA Energy, 703-767-8669/8523; DSN 427-8669/8523
Utility Privatization (UP)

- UP leverages private sector financing in order to modernize DoD systems at a cost lower than if the government retained ownership.

- Comprised of two contractual actions:
  - Conveyance of the utility system to a private/public owned utility company
  - Utility distribution services contract for up to 50 years

- UP projects correct many environmental Notices of Violations and life safety deficiencies that may otherwise remain un-financed or subject to the availability of funds if retained under DoD ownership.

- Contact DLA Energy 703-767-5168; DSN 427-5168
  [http://www.energy.dla.mil](http://www.energy.dla.mil)

Water Tower Replacement  
Refurbishment to lift stations
Energy Savings Performance Contracts (ESPCs)

- ESPCs help to meet the federal government’s energy efficiency, water conservation, and renewable energy goals.
- Under an ESPC, contractor designs, constructs, and finances energy savings project. Agency makes payments (from appropriated funds) over life of the contract, to the contractor, from savings reduction in utility bills.
- Reduces DoD Dependency on Foreign Oil
- Added Benefit: Reduces Pollution SO2 and NO2
- Contact DLA Energy, 703-767-8451; DSN 427-8451; http://www.energy.dla.mil

Annual Cost Avoidance $1.94M
Buying Green – a Multifunctional Approach to Pollution Prevention

• This 2-day workshop offered by the DLA Human Resources Services, DLA Training, provides an overview of Federal pollution prevention initiatives and how they relate to the DoD acquisition process.

• **Highlights** include:
  – P2 Laws/Executive Orders/Regulations
  – Green Procurement Program
  – Environmentally Preferred Products
  – Life-cycle Costing
  – Acquisition Planning
  – FAR requirements

• **Course Number & info:** (DCPSO00R750)

• [http://www.hr.dla.mil/training/](http://www.hr.dla.mil/training/)

• **Workshop Manager** - DSN 850-6166, Comm 614-692-6166
Hazardous Material Information Resource System (HMIRS)

- DoD central repository for Material Safety Data Sheets (MSDS); including foreign language MSDS
- Assists Federal Government personnel who handle, store, transport, use, or dispose of hazardous materials – EPA, OSHA, DOT
- Includes value-added info by Service-agency focal points: HAZCOM warning label & transportation info
Hazardous Material Information Resource System (HMIRS)

- Available on the web, sets or as direct system-to-system interface (e.g., Federal Catalog System for supply items)
- Over 400,000 MSDSs and 4,800 users.
- Hazard Communication warning labels are based on the OSHA standard
HMIRS

Contact info

- **Program Manager**: DLA Logistics Information Service, DSN 661-4195. Focal point for Help Desk support: Customer Service Office, 1-877-DLA-CALL (352-2255)
- **Functional Manager**: DLA Aviation, 804-279-3518; DSN 695
- also email: HMIRS@dla.mil
DOD Shelf Life Program

- Delegated to DLA by DUSD(L&MR)
- Authority Vested in DODD 4140.1, DoD 4140.1-R, DOD 4140.27-M
- Policies in DoD 4140.27-M, Shelf Life (SL) Management Manual
- Permeates Entire Supply Chain
- Applies to Wholesale, Retail, Consumable, Non consumable
- Participants include DOD, GSA, FAA, DTRA, DHS
- Formal Training Program Available; computer based training available through DAU

Public internet web site: https://www.shelflife.hq.dla.mil/
Intranet site available upon request to .mil customers
Shelf Life Extension System (SLES)

*SLES reduces waste & disposal costs!*

- Joint Reg DLAD 4155.37 contains Shelf Life Extensions Policies
- SLES contains inspection criteria and test results for Type II extendible SL materiel.
- SLES and other SL information are available on web sites.
- Use web site feedback for any questions.

Public internet web site: [https://www.shelflife.hq.dla.mil/](https://www.shelflife.hq.dla.mil/)

Intranet site available upon request to .mil customers
Reuse and Recycling Programs – providing maximum reutilization of DOD excess property

- **Scrap Recycling** - providing a recycling service with reimbursement going back to DOD Qualified Recycling Programs
- **Donation in Lieu of Disposal** - diverting property from landfill with no cost or reimbursement to Government (other than occasional shipping costs). Examples: low value recyclables such as tires, wood, furniture, and hazardous materials
- **Electronics Recycling** - Computers for Learning Program, MOA with Federal Prison Industries (FPI) Unicor, Demanufacturing contracts
- **Precious Metals Recovery** - refining of precious metals bearing material/scrap to conserve resources; no reimbursement to generator
- **Hazardous Materials Reuse** - Maximizing lifecycles, minimizing the environmental risks and the costs associated with disposal
- **Hazardous Waste** - safe and compliant disposal management, tailored and cost efficient contracts with DLA assumed liability for 3rd party contamination sites

POC: DLA Customer Interaction Center 1-877-352-2255, options 3-2-1
DLA Disposition Services

Electronics Demanufacturing

- Increased recycling and solid waste diversion

- Protection of the environment/controlled disposal of:
  - Batteries of all types in electronics
  - Mercury switches
  - Heavy Metal content
  - Keeping leaded glass from PC monitors and TVs out of landfills

- National Security:
  - Ensures property with military capability not released into commerce
  - Destruction of secure information
Hazardous Material Dispositions

- 84% of total March 2011 dispositions were R/T/D/S (Reutilized, Transferred, Donated or Sold)

- Sales Revenue – March 2011: $200K
  YTD FY11: $1.56M

Waste Disposal Cost Avoidance by R/T/D/S:
- March 2011: $56K
- YTD FY11: $923K
Pharmaceutical Reverse Distribution

• Return of expired, short-dated, recalled, and overstocked products
  ✓ Pharmaceuticals – Rx, OTC, & Controlled substances
  ✓ On-site and Off-site service
  ✓ CONUS and OCONUS

• Hazardous and Non-Hazardous Disposal

• Attempt to achieve maximum credit return

• Minimize regulatory risk -- ensures all regulatory requirements are met for returns and disposals – DEA, FDA, EPA/OSHA, & DOT transportation regulations

Contact:  (215) 737- 4149 or 4351; DSN 444

Hazardous Technical Information Services (HTIS)

An advice service for managing hazardous materials or wastes:
- Environmental
- Safety & Health
- Transportation
- Packaging
- Logistics

Bulletin
- Bimonthly, with over 8,000 Recipients

Regulatory Alerts – weekly

Help Line: 800-848-HTIS

Staffed with chemists, chemical engineers, industrial hygienists, environmental specialists
HTIS HELP LINES

- Monday - Friday: 0730 - 1630 ET
- DSN 695-5168 & (804) 279-5168
  - Voice mail after hours
  - 800-848-HTIS
  - FAX: 279-4194
- Internet
  - descr.htis@dla.mil
  - Links from other DOD/Government Sites
- NOT for Emergency Response
The DoD Ozone Depleting Substances Reserve at Defense Supply Center Richmond

**Only Source for Weapon Systems Support**

- Halons 1211 and 1301
- Refrigerants R-11, R-12
- R-114, R-500, and R-502
ODS Reserve Program Guidance

• Halon and Refrigerant Recycling Program Supporting Major Weapons Systems


• Turn-ins Mandatory – Local Disposal or Sale Prohibited

• Outside of U.S. -- Individual Country Laws and Regulations Continue to Evolve

Contacts: Phone: 804-279-4525, DSN695; OR email: DSCR.ODSReserve@dla.mil
DLA Document Services is Environmentally Responsible

- **Electronic Document Management**
  - FY-10 converted 16.4 million documents to digital format for on-line viewing
  - Resulting in less printing cost
  - Eliminates the need for long term publication warehouses

- **Recycled Content Paper**
  - Paper Contract
    - FY-10 purchased 677 million sheets of recycled content paper
    - Meets or exceeds the EPA requirement for recycled post-consumer fiber content
    - Acquires paper processed *without* the use of chlorine or chlorine compound

- **Energy Star Rated Copiers**
  - Energy Star Rating is required in all acquisitions for copiers and printers available for lease, rent or purchase

- **Recycled Toner/Printer Cartridges**
  - Contracts require Vendors to retrieve spent copier/printer toner cartridges for approximately 36,000 devices world-wide for recycling

**Winner:** 2009 DLA Environmental Award and 2008 Secretary of Defense Environmental Award, Honorable Mention

For more info: [http://www.daps.dla.mil/](http://www.daps.dla.mil/)
Green Product Highlights

- Re-refined Lubricating Oil
- Reclaimed Engine Coolant
- Remanufactured Toner Cartridges
- Vehicular Wet Battery Program
- Heavy Equipment Procurement Program
- Energy Efficient Lighting
- Biobased Fuels
- Biobased Cutlery
Re-refined Lubricating Oil

• **Basic Re-refined Oil Program**
  – API certified oil in your choice of 5W-20, 5W-30, 10W-30, 15W-40
  – No minimum orders
  – Packaged in Quarts, 5 Gallon Containers, and 55 Gallon Drums
  – World-wide delivery from Vendor to Customers

• **Closed Loop Re-refined Oil Program**
  – API certified oil in your choice of 5W-20, 10W-30 and 15W-40
  – Small minimum orders
  – Includes pick up of your used oil for re-refining
  – CONUS delivery of packaged and bulk products
  – Available in Quarts, 5 gallon containers, 55 gallon drums, bulk deliveries

POC:  804-279-4257, DSN 695
http://www.dscr.dla.mil/userweb/dscrlD/Re-refined/RR.htm

DLA Aviation
Biobased Penetrating Lubricant

• DLA Aviation has added new family of bio-based products into the Supply System
• Joint effort with NDCEE at Ft. Jackson and Joint Base Charleston resulted in effective bio-based alternative to petroleum penetrants
• Two commercial bio-based products met requirements of DoD STD A-A-50493B (Oil, Penetrating for Loosening Frozen Metallic Parts)
• New NSNs are 9150-10-591-4213/4274/4281/4217
• Contact 804-279-2087, DSN 695-2087
Reclaimed Engine Coolant  
(aka Recycled Antifreeze)

- Conforms with EPA guidelines
- May be purer since recycling process reduces chlorines from hard water
- Commercial Item Description that replaces 3 Mil Specs, specs same for virgin, recycled
- Army – use recycled only, DLA to do automatic substitution
- Other Military Services -- similar directions
- POC for product: 804-279-3995, DSN695
- POC for antifreeze recycling equipment: 804-279-4654, DSN695
Toner Cartridges

- EPA CPG item (non-paper office product)
- Used in laser printers, photocopiers, fax machines, and microphotographic printers
- When the toner is replaced, the cartridges can be returned to the manufacturer to be refilled, refurbished, and cleaned for resale.
- EPA recommends: remanufacturing services for expended cartridges, and remanufactured toner cartridges or new toner cartridges made with recovered materials from product vendors
- POC: 804-279-3995, DSN695
Vehicular Wet Battery Program

- Contract awarded in July 2010 services all 50 states – current contractor is Exide
- New Price: The 6TMF battery price is $92.88 for all sites; Also included: 2HN ($70.04), 4HN ($103.22)
- Direct Vendor Delivery for sites using 120 or fewer per year, order on as needed basis through MILSTRIP or DOD EMALL
- Consignment of 30 day supply for sites using 120 or more per year
- Consignment Advantages – no inventory investment, no servicing risks, spent batteries picked up at no charge for recycling, diversion from installation waste stream
- Requires application – POC: 614-692-4225; DSN850 Fax 614-693-1603; DSN850

DLA Land and Maritime
Heavy Equipment Procurement Program (HEPP)

- Supports the Acquisition of Over 2,400 “Commercial Type” Heavy Equipment Products
- Multi-award commercial requirement contracts
- Focus: Tailored Customer Support
  - Average Administrative Lead Time = 16 Days
  - Optional Ordering System
  - (MIPR or Requisition)
  - Interactive Web Catalogs
  - 2.0% Cost Recovery Rate

DLA Troop Support

Construction Equipment, Material Handling Equipment, Fire Fighting/Rescue Vehicles & Environmental Products

- 10 Year Contracts
- Full Range of Options
- OEM’s
- Add/Delete Clause
- Customization
- Leveraged Buying

DLA Troop Support
Heavy Equipment Procurement Program

Equipment for environmental functions:
• Balers
• Crushers
• Compactors
• Shredders
• Recycling equipment
• HazMat storage facilities
• Sweepers
• Extractors
• Graders
• Sewer cleaners
• Vacuum trucks
• Spill containment systems

POCs: 215-737-7256, DSN 444-7256, 215-737-7283, DSN 444-7283; hepp@dla.mil
http://www.dscp.dla.mil/gi/general/hepp.htm

DLA Troop Support
Construction & Equipment Green Procurement Product List

**Energy Efficient Lighting**
- Compact Fluorescent Lamps (CFLs)
- Electronic Ballast
- LED Lighting

**Energy Efficient HVAC**
- Roof Top AC units
- Energy Saving Hot Water Heaters

**Energy Saving Plumbing**
- Water Conserving Fixtures

**Environmentally Safe Building Materials**
- Wallboards, Lumber
- Insulation

*Building a Greener Tomorrow...Today*

For further information please call our toll free number 1-800-352-2852

DLA Troop Support
Biobased Plastic Flatware

- Biobased resin uses wheat to replace 50% of Polypropylene
- Meets or exceeds all current performance standards (impact strength, heat distortion, flexibility, biodegradability)
- Replacement into Unitized Group Ration A and Heat & Serve programs, then into daily dining facilities on military bases, hospitals, etc.
- POC: 215-737-4435; DSN444

As shown above, the flatware is packaged with napkin, sugar, salt and pepper in a clear plastic bag.
Biobased Plastic Flatware

Offered by JWOD NIB/NISH Partner: L C Industries

<table>
<thead>
<tr>
<th>Product Description</th>
<th>NSN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biobased Dining Packet</td>
<td>7360-01-509-3586</td>
</tr>
<tr>
<td>Biobased Knife, Individually Wrapped</td>
<td>7340-01-519-4377</td>
</tr>
<tr>
<td>Biobased Fork, Individually Wrapped</td>
<td>7340-01-519-4368</td>
</tr>
<tr>
<td>Biobased Spoon, Individually Wrapped</td>
<td>7340-01-519-4384</td>
</tr>
<tr>
<td>Biobased 3 Piece Flatware Set</td>
<td>7360-01-519-5588</td>
</tr>
<tr>
<td>Biobased Spoon, 100 count Bag</td>
<td>7340-01-519-4739</td>
</tr>
<tr>
<td>Biobased Fork, 100 count Bag</td>
<td>7340-01-519-4795</td>
</tr>
<tr>
<td>Biobased Knife, 100 count Bag</td>
<td>7340-01-519-4371</td>
</tr>
</tbody>
</table>
Biobased Fuels (aka Biofuels)

- Biodiesel, mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats IAW ASTM D 6751, for use in diesel engines.
- B20, a blend: 20% biodiesel & 80% ultra-low sulfur diesel fuel
- E85, a blend of 85% ethanol and 15% gasoline
- Initially driven by the Energy Policy Act (EPACT) of 1992 and EO 13149: Greening the Government Through Federal Fleet and Transportation Efficiency
- Biofuel use reduces regulated exhaust emissions, decreases petroleum imports
- DLA Energy worked to establish quality requirements for B20 so fuel works comparable to diesel; recognized with White House Closing the Circle Award

POC: DSN427-8415; DSN427-8740 (Comm 703-767)

DLA Energy
Current Alternative Energy Initiatives

• Alternative Fuels Certification Efforts
  – Fischer Tropsch (FT) jet fuel derived from coal and natural gas
  – Hydrotreated Renewable Jet (HRJ) derived from camelina oil and tallow
  – Hydrotreated Renewable F76 (HR 76) derived from algal oil
  – Alcohol to Jet (ATJ)

• DLA Energy and Air Transport Assn signed “Strategic Alliance for Alternative Aviation Fuels” on 19Mar2010
  – To encourage alternative fuels, leverage purchasing power
  – To provide collaboration in environmental requirements, deployment & logistics, and contracting & finance
Current Alternative Energy Initiatives, cont.

• **Green Initiative for Fuels Transition Pacific (GIFTPAC)**
  – Displace at least 25% of the petroleum based fuels used by the DoD in Hawaii with locally produced “green” renewable fuels
  – Collaborative effort including State of Hawaii, MILSVCS, USDA & others
  – Result is pilot program for development of commercially viable business model for biofuel sales to the military & commercial aviation industry in Hawaii

• **Farm to Fly**
  – Goal is to link the technologies, policies and economic and sustainability criteria from agriculture to aviation
  – Collaborative effort including DOE, USDA, ATA & others

• **Sustainable Aviation Fuels Northwest (SAFN)**
  – Comprehensive regional assessment exploring challenges and opportunities with the commercialization of sustainable aviation fuels in the Pacific Northwest.
  – Collaborative effort including Boeing Co., Spokane Intl Airport & others
DLA’s Environmental Attribute Initiative

- Environmental Attribute Codes (ENAC) for NSN items in the Federal Logistics Information System, also known as the Federal Catalog System, to signify that a product meets strict, definable environmental standards & criteria
- ENAC currently applied to over 8300 items managed by DLA & GSA, ranging from paints & coatings to lamps to file folders to gaskets to industrial cleaners & lubricants
- Spreadsheet listing NSN items with ENAC is found at: [https://headquarters.dla.mil/DLA_Customer/Operations/GreenProcurement.aspx](https://headquarters.dla.mil/DLA_Customer/Operations/GreenProcurement.aspx) (currently titled Green Product List)
Environmental Attributes, *cont.*

- DLA formed and chairs a **Joint Group on Environmental Attributes (JGEnvAtt)** to seek out and evaluate clearly definable environmental product criteria or ‘attributes’ from recognized environmental organizations

- **JGEnvAtt process**: Identify, evaluate and, through a consensus building process, approve Environmental Attributes or criteria to be applied to products in the Federal Catalog System

- **Voting Members**: DLA, Military Services, GSA

- **Advisors**: Office of the Secretary of Defense, Departments of Agriculture and Energy, EPA, Office of the Federal Environmental Executive (OFEE)
Environmental Attributes
Approved by the JGEnvAtt

• Recycled Content
• Energy Efficient
• Water Conserving
• Low VOC Content
• Low Standby Power
• Asbestos Alternative

• Biobased
• Non-mercury Alternative
• Electronic Products Environmental Assessment Tool (EPEAT)
• Non-cadmium Alternative
DLA-managed NSNs and ENAC

- Goal to increase support to customers in the realm of environmentally responsible or green products
- DLA’s Senior Green Product Council included an objective in DLA’s strategic plan for a 25% increase in “green” DLA-managed NSNs (with ENAc) offered to customers over FY06-FY09, using a FY05 baseline
- *Met/exceeded the 25% the goal a year early, progress more than doubled original target by FY09*
- All DLA supply chains engaged; an established Green Products Team that wants to hear from customers about green product needs, green products already in use, and ideas for new products or processes
- email: [GreenProducts@dla.mil](mailto:GreenProducts@dla.mil)
DLA Supply Chain Sustainability/HAZMIN Projects – DLA Aviation

• MIL-PRF-85570, Type II Aircraft Cleaner
• MIL-PRF-85570, Type I Aerosol Foam and Pre-moistened Wipes Aircraft Cleaner
• Chrome Free Pretreatment Applicator Pen (MIL-DTL-81706 Type II)
• Electrical Contact Cleaner (MIL-PRF-29608 Class L CPC)
• Cold Spray/Kinetic Metallization Development for Military Aerospace Application
• Closed Loop Recycle Antifreeze Contract
DLA Supply Chain Sustainability/HAZMIN Projects – DLA Aviation, continued

• Micro-Fiber Cloths for Non-Chemical Cleaning of Canopies and Optics
• Environmentally Compliant Chemical Paint Strippers
• COTS Environmentally Compliant Non-Structural Adhesives
• Non-Aqueous Low-VOC and HAP-Free Cleaner (MIL-PRF-32295 Type II) and Field Test
• Bio-Based Hydraulic Lubricants
• Aircraft Waterless Cleaners
• USAF Coating Removal
• Green Product Demonstration and Hazardous Minimization Initiatives for DoD in collaboration with the National Defense Center for Energy and Environment

• Evaluate bio-based product technical information versus the requirements of applicable Government specifications and identify products as potential alternatives to petroleum based and non-bio-based products.

• Outreach to DoD facilities to identify currently used green products and to identify opportunities to evaluate green alternatives to the currently used non-green products.

• Demonstrations of green products at DoD facilities.

• POCs: 803-279-2087 (DSN695); 703-767-2420 (DSN427)
DOD EMALL, DOD’s Online Shopping Mall

- Web self-service capability for the DOD
- Sells both finished goods and services
- Supports contracts written by DLA, GSA, Services, Federal agencies
- Offers over 80M items from government stock, long term contracts and 1900 catalogs
- Offers Over 400,000 Green Items
- Currently adding about 30 vendors a month and over 750K items of content a month
- FY10 Total Sales $787M; Green Sales over $200K

You can view the trifold dated June 2010:
DOD EMALL’s Green Shopping Section

DOD EMALL offers over 800,000 Green products!
Over 400,000 Green Products!

Once you have found your product, rolling your mouse over the Green Icon/ENAC code provides a category explanation.
ENAC and Product Information

Clicking the Icon provides online help/ENAC and product definitions.
To view Green reports, navigate to the “Reports” tab.

When shopping is complete, users may request full reports of orders made and account activity. For instance, if a customer wants to know how well they are supporting various initiatives, such as purchasing green products or supporting small businesses, DOD EMALL can provide the customer reports, weekly, monthly or quarterly as desired. A general search by quarter is displayed on the next 2 pages.
View Green Sales Below

Click on Green Purchases hyperlink to view reports.
Select The Quarter You Are Interested In

This page allows users to view quarterly reports. Users may also receive customized reports by sending an email to: emallcustomreports@dla.mil. This provides users information on how well they are supporting the “Green program”
Green Sales By Service or Agency

This is the Green Reports page. This page breaks down sales by Fiscal Year Quarters.
Hydrogen and Fuel Cell R&D Program

**Objectives:**
- Be an early adopter and principal demonstrator
- Provide market demand & exercise the supply chain
- Support improved Technology and Manufacturing Readiness Levels

**Approach:**
- 2-year forklift pilot projects at 3 DLA warehouses and JBLM (114 forklifts, 1 bus)
  - 4 Different hydrogen production techniques
  - Teamed with DOE to analyze business case
- Solid hydrogen storage
- Extended range vehicles

**Customers:**
- DLA Distribution Depots at Susquehanna, PA (DDSP), Warner Robins, GA (DDWG), San Joaquin, CA (DDJC);
- Joint Base Lewis-McChord (JBLM), WA
- Hydrogen and fuel cell industrial base

**DOD Benefits:**
Support DLA/DOD Energy Strategy:
- Promote energy independence
- Reduce the environmental impact
- Improve operational efficiencies

**Performers:** Air Products, Concurrent Technologies Corporation (CTC), Center for Transportation and the Environment (CTE), Plug Power, Hydrogenics, East Penn/Nuvera, Gas Tech Inst, Proterra, Proton Energy, ATK, others

**Schedule/Milestones:**
- DDSP Demonstration: Feb 2009 – Sep 2011
- DDWG Demonstration: Nov 2009 – Nov 2011
- JBLM Start up – Jul 2011
- DDJC Start up – Aug 2011

**Funding:** FY07-10 $39.1M

Contact for more information: 215-737-4210, DSN 444
DLA Points of Contact

Supply Chain Sustainability & Hazardous Materials Minimization Team
• Supports customers and DLA supply chains in developing green products. Serves as technical consulting resource on green requirements, identifying green substitutes and alternatives. 703-767-1639 or 2420; DSN 427; GreenProducts@dla.mil
• Supply Chain POCs: Aviation: 804-279-4060; DSN 695
Construction & Equipment: 215-737-5422; DSN 444
Land/Maritime: 614-692-1308; DSN 850
Subsistence: 215-737-4435; DSN 444
Clothing & Textiles: 215-737-2405; DSN 444
Medical: 215-737-2238; DSN 444
Fuel/Energy: 703-767-8415; DSN 427

DLA Environmental Management Office
• Provides Agency-wide environmental guidance and assistance
• 703-767-6303/6237/6235; DSN 427

Questions?

Ask now or contact me later!
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QUESTIONS?

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