Sustainable Procurement 101
Definitions, Benefits & Best Practices

Anne Jackson, DGS
Mike Haifley, MDOT
Maryland Green Purchasing Committee
Sustainable Purchasing 101/102

Project Partners

Town Creek Foundation

RPN

NASPO
National Association of State Procurement Officials

BuyGreen
Maryland Green Purchasing Committee
What are Environmentally Preferable Goods & Services?

“...products and services that have a lesser or reduced effect on human health and the environment when compared to competing products and services that serve the same purpose.”

*Green Maryland Act of 2010*
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Environmentally Preferable Purchasing (EPP)

EPP = Environment + Price + Performance
**Green Products are...**

- Made with recycled content
- Highly energy efficient
- Designed to be long lasting
- Recyclable or compostable
- Made from renewable resources
- Less toxic than conventional goods
- Manufactured locally and responsibly
- Safely managed at the end of their life
### The 7 “Sins” of Greenwashing

<table>
<thead>
<tr>
<th>Sin of Vagueness</th>
<th>No Proof</th>
<th>Irrelevance</th>
<th>Hidden Trade-Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>“100% Natural”</td>
<td>“Just trust us”</td>
<td>“CFC-Free”</td>
<td>Compostable food containers with “Teflon” coating</td>
</tr>
<tr>
<td>Fibbing</td>
<td>Lesser of Two Evils</td>
<td>Worshipping False Labels</td>
<td></td>
</tr>
<tr>
<td>“Non-Toxic”</td>
<td>Hybrid SUVs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

www.sinsofgreenwashing.org
Best Practice: Require Claims to be Verified

“A bidder or offerer for a procurement contract with the Department of General Services shall certify in writing that any claims of environmental attributes made relating to a product or service are consistent with the Federal Trade Commission’s Guidelines for the Use of Environmental Marketing Terms”

Source: Green Maryland Act (2010)
“Products/services purchased under this contract must be ______ certified or provide demonstrable proof of meeting the ______ standard and certification requirements.

The ______ standard and certification requirements are available at <_______________>.”
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Multi-Attribute Certifications

- EPEAT
- Green Seal
- Eco Logo
- e-Stewards
- Fair Trade
- FSC
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Single Attribute Certifications

- Energy Star
- Compostable
- FEMP
- Greenguard
- WaterSense
- Chlorine Free
- Biobased
- Green-e
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Manufacturer- or Retailer-created “Eco” Labels
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Shades of Green: How Much?

- Recycled content
- Bio-based content
- Mercury content (in fluorescent lamps)
- Energy, fuel or water consumption
Race to the Top

Tiered eco-labels set minimum threshold and encourage improvement
“Best Value” Procurement Favors Efficient Products

Considers overall (life-cycle) costs of ownership:

- Initial price
- Utility costs (energy, water)
- Maintenance costs (labor and replacement)
- End-of-life costs (disposal and recycling)
ENERGY STAR-rated LED Lamps

- **Energy-efficient** (75% less than incandescent)
- **Long life** ($\geq 25,000$ hours rated life $=15X$ longer than incandescent; $3X$ longer than CFLs)
- **Mercury-free**

Qualified list: [www.energystar.gov](http://www.energystar.gov)
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**Toner and Ink Cartridges**

- Evaluate toner/ink costs BEFORE purchasing imaging equipment
- Remanufactured toner/ink cartridges cost 30-60% less per copy than “virgin” cartridges
  - Need strict performance standards
  - Can support local jobs
- Require vendors to take-back empties to reduce disposal costs (ask for rebates)
- High-yield (X or XL) toner and ink cartridges reduce replacement costs
Hand Dryers vs. Paper Towels

Cost of Hand Dryers vs Paper Towels

CALCULATE YOUR SAVINGS

Did you know that converting from paper towels to Hand Dryers could represent COST SAVINGS? No more repetitive paper towel purchases or labor costs to load and clean towel dispenser. No more cleaning up the towel mess or servicing the paper towel dispenser. Replacement of these costs may now be considered costs of operations.

Fill in the shaded boxes and click “Calculate” to analyze the impact on your operation.
(*If the form is not working properly click the printable version and print the form manually*)

### PAPER TOWEL COSTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Cases of Paper Towels Used</td>
<td></td>
</tr>
<tr>
<td>Annually</td>
<td></td>
</tr>
<tr>
<td>Cost per Case Delivered (Include Freight and taxes)</td>
<td></td>
</tr>
<tr>
<td>(Typically $15.00 - $25.00/case)</td>
<td></td>
</tr>
<tr>
<td>Number of Towels per Case</td>
<td></td>
</tr>
<tr>
<td>For example:</td>
<td></td>
</tr>
<tr>
<td>2,400/case for C-fold towels</td>
<td></td>
</tr>
<tr>
<td>4,000/case for Multi-fold towels</td>
<td></td>
</tr>
<tr>
<td>4,800 linear ft/case for Roll Towels</td>
<td></td>
</tr>
<tr>
<td>Your KWH Rate</td>
<td></td>
</tr>
<tr>
<td>(Typically $0.10 per KWH)</td>
<td></td>
</tr>
</tbody>
</table>

Total Paper Towel Costs per Year

Handling Cost (50% of item 3 - Includes the cost of generating requisitions and purchase orders, receiving, storing, servicing towel dispensers, collecting and disposing of used towels.)

TOTAL COST OF USING PAPER TOWELS PER YEAR

### HAND DRYER COSTS

<table>
<thead>
<tr>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>6. Number of paper towels used annually</td>
<td></td>
</tr>
<tr>
<td>(Item 1 multiplied by total sheets per case)</td>
<td></td>
</tr>
<tr>
<td>7. Number of Hand Dryings annually</td>
<td></td>
</tr>
<tr>
<td>(Item 6 divided by 2.5 towels per hand dry)</td>
<td></td>
</tr>
<tr>
<td>8. Hours of hand dryer usage</td>
<td></td>
</tr>
<tr>
<td>(Item 7 divided by 120 hand dries per hour)</td>
<td></td>
</tr>
<tr>
<td>(Use 240 hand dries per hour for XLERATOR®)</td>
<td></td>
</tr>
<tr>
<td>9. Cost of electricity per hour</td>
<td></td>
</tr>
<tr>
<td>(2.2 KW multiplied by your KWH rate)</td>
<td></td>
</tr>
<tr>
<td>(Use 1.5 KW for XLERATOR®)</td>
<td></td>
</tr>
<tr>
<td>10. TOTAL ANNUAL HAND DRYER COSTS</td>
<td></td>
</tr>
<tr>
<td>(Line 8 multiplied by Line 9)</td>
<td></td>
</tr>
<tr>
<td>11. YOUR ANNUAL SAVINGS (Item 5 minus Item 10)</td>
<td></td>
</tr>
<tr>
<td>COMPUTE YOUR % SAVINGS (Item 11 divided by Item 5)</td>
<td></td>
</tr>
</tbody>
</table>

### CALCULATE YOUR PAYBACK

<table>
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<tr>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Cost of Each Dryer</td>
<td></td>
</tr>
<tr>
<td>Installation Cost (Typically $50 - $125/cdryer)</td>
<td></td>
</tr>
<tr>
<td>Number of Hand Dryers Purchased</td>
<td></td>
</tr>
<tr>
<td>(See Note Below)</td>
<td></td>
</tr>
</tbody>
</table>
Cut Paper Consumption

Seattle’s Paper Cuts Program

- Set 30% paper reduction goal (vs. 2004)
- Established duplex printing standard
- Copy paper spec = 100% post-consumer recycled content/processed chlorine-free
- 2010 => 36% reduction
- ~$80K annual savings (2009)
Cut Battery Use
... and Waste

- Batteries increase price and environmental impact of equipment
- Factor in cost of battery replacement and disposal when ordering equipment
- Rechargeable batteries work well for many applications and have quick payback
- Use industry-financed battery recycling program to reduce disposal costs
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Best Practice: Reduce Packaging Impacts

- Prohibit unsustainable packaging
- Encourage vendors to use reusable and easily recyclable packaging
- Buy concentrated and long-lasting products
- Consolidate orders
Best Practice: Reduce Transportation Impacts

- Avoid overnight shipping, whenever possible
- Ask vendors to offer incentives for reducing the frequency of deliveries
- Give preference to local manufacturers and distributors
Best Practice: Specify Green Services

- Incorporate “green” criteria into service agreements for landscaping, pest management, facility cleaning and maintenance, etc.
- Give preference to other certified green businesses
Best Practice: Require Vendors to Recycle

• Shifts responsibility for recycling to product suppliers

• Creates efficient recycling infrastructure

• Encourages manufacturers to redesign their products
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Best Practice: Plan and Prioritize

- Largest potential impact
- Ability to meet environmental/health goals
- Opportunities for change (contracts re-bid)
- Ease of implementation (use existing specs and certifications)
- Potential to save money/create local jobs
Best Practice: Green Your Market Basket List

• Add “green” products to your core/market basket lists so they become eligible for vendor’s deepest discounts

• Remove non-green products from core/market basket list (or contract) to get better price breaks on green products
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Best Practice: Cooperative Purchasing

WSCA Western States Contracting Alliance

CURRENT COOPERATIVE CONTRACTS

JANITORIAL SUPPLIES AND INDUSTRIAL PAPER (WSCA-OR)
W20-2007

BASIC CONTACT INFORMATION - LEAD STATE

PARTICIPATING STATES: Affiliation: WSCA
Lead State: Oregon
Lead State Contract Number: 102-3031-5
Contact person: Pam Johnson
Phone: (503) 378-4731
Fax: (503) 373-1626
Email: pam.johnson@state.or.us

LINK TO LEAD STATE WEBSITE

BuyGreen
Maryland Green Purchasing Committee

U.S. Communities Going Green Program is the one-stop source for public agency access to a broad line of responsible purchasing products, services and resources. In addition to our comprehensive contracts that offer eco-friendly products, agencies will find a wealth of valuable information and resources that will help lower your environmental impact within your community and will assist you in making educated decisions about the products your agency purchases.

OFFERING THOUSANDS OF "GREEN" BRANDS IN THE FOLLOWING CATEGORIES:

School Supplies  Education Furniture
Office Supplies  Janitorial Supplies
Technology Products  Park & Playground
Electrical & Data Communications  Maintenance, Repair & Operating Supplies
Technology Solutions  Auto Parts & Accessories
Office Machines  Flooring, Fixtures & Services
Office Furniture  Synthetic Turf & Athletic Surfaces

WHAT'S HOT/WHAT'S NEW

U.S. Communities & Responsible Purchasing Network Partner to Promote Green Products on Cooperative Contracts. What do you get when you combine aggregated influence of over 87,500 buyers with Responsible Purchasing Network's green purchasing program? A powerful new resource for finding and buying incredible green products through competitively solicited contracts. Full Details.
Save Time:
Ask Suppliers to...

• Accurately label their certified green products
• Conduct training and outreach
• Provide “green” spend reports
• Calculate environmental benefits/cost savings of purchasing their green products
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Resource: RPN

- **Responsible Purchasing Guides** for 15 product categories
- Webinars on “green” procurement issues
- Quarterly newsletter highlighting “green” purchasing activities and resources
- Sustainable purchasing policies and specifications
- **Model Responsible Purchasing Report**
- Calculators and other tools

[Image of Responsible Purchasing Guides]
[Image of Webinars]
[Image of Quarterly Newsletter]
[Image of Sustainable Policies]
[Image of Model Report]
[Image of Calculators]
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Resource: EPPNet

- Product specifications
- Vendors of green products
- Pricing information
- Strategies to meet green procurement goals

 ner.org/eppnet

The EPPnet listserv was established by the Northeast Recycling Council, Inc. (NERC) in 1998. EPPnet links federal, state, and local environmental officials; and private procurement specialists charged with purchasing green products and services and developing policies for the procurement of these products. EPPnet is intended to provide subscribers with quick access to information, such as, availability of

Not available for private vendors
Green Purchasing Committee information and resources, including this presentation, can be found on the DGS website under the “BuyGreen” tab.
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Maryland Green Purchasing Committee Purchasing Guidelines

- Desktops, Laptops and Monitors
  - Enabling Power-Saving Settings
  - Copiers, Fax Equipment, Printers, Multi-Function Devices
  - Refrigerators, Televisions, Clothes Washers, Heating/Cooling
  - Other Electric Appliances or Products
- Toner and Ink Cartridges
- Data Center Energy Management
- Equipment Disposal
- Cleaning Supplies and Janitorial Services
- Indoor Lighting Lamps and Fixtures
- Bottled Water
- Packaging
- Food and Beverage Containers and Utensils
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[GovDeals logo]
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Other State Green Purchasing Resources
Multi-Attribute Certifications

- EPEAT
- e-Stewards
- Green Seal
- Fair Trade
- Eco Logo
- FSC
Electronic Product Environmental Assessment Tool (EPEAT)

Home

Your resource for greener electronics

EPEAT® is a comprehensive environmental rating that helps identify greener computers and other electronic equipment. View the EcoBenefits of purchasing greener EPEAT-registered electronics (NEW!).

The EPEAT system was conceived and developed through the collaboration of stakeholders from the business, advocacy, government and academic arenas.

EPEAT is used by hundreds of companies, universities and government agencies in dozens of countries. Its rigorous requirements and searchable product database let buyers bypass marketing hype and confusing specifications.

For participating manufacturers, EPEAT is a chance to showcase and validate greener designs and cleaner production.

Announcements

- Verification Round 2013-31 Launched
- EPEAT Television Conformity Assessment Protocols Final
- PC/Display Verification 2012-05 Report Published
- EPEAT Online Trainings and Live Webinars Available

Latest News

- Waste & Recycling News: EPEAT Registry Expands
- Green IT Review: EPEAT green certification expands
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Electronic Product Environmental Assessment Tool (EPEAT)

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**Electronic Product Environmental Assessment Tool (EPEAT)**

### Product Categories Covered

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<th>DEVICE CATEGORY</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>COMPUTERS &amp; DISPLAYS</strong></td>
<td></td>
</tr>
<tr>
<td>DESKTOPS</td>
<td>DISPLAYS</td>
</tr>
<tr>
<td>NOTEBOOKS</td>
<td>INTEGRATED DESKTOP COMPUTERS</td>
</tr>
<tr>
<td>WORKSTATION DESKTOPS</td>
<td>THIN CLIENTS</td>
</tr>
<tr>
<td>WORKSTATION NOTEBOOKS</td>
<td>TABLET NOTEBOOKS</td>
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</tr>
<tr>
<td>COPIER</td>
<td>DIGITAL DUPLICATOR</td>
</tr>
<tr>
<td>FACSIMILE MACHINE (FAX MACHINE)</td>
<td>MAILING MACHINE</td>
</tr>
<tr>
<td>MULTIFUNCTION DEVICE (MFD)</td>
<td>PRINTER</td>
</tr>
<tr>
<td>SCANNER</td>
<td></td>
</tr>
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</table>
All desktops, laptops, and computer monitors provided under this contract are required to have achieved Bronze registration or higher in the EPEAT system in [the USA]. EPEAT is a procurement tool designed to help large volume purchasers evaluate, compare, and select electronic products based upon their environmental attributes as specified in the consensus-based IEEE Standard for the Environmental Assessment of Personal Computer Products (IEEE 1680.1).

[Purchaser] will prefer products that have achieved EPEAT Silver or EPEAT Gold registration. The EPEAT registration criteria and a database of all registered products are provided at http://www.epeat.net.

Suppliers are required to block non-EPEAT registered products on their electronic catalogs or web portals that customers may buy from through this contract.

Suppliers are required to provide [quarterly/semiannual/annual] reporting on the number of EPEAT registered products purchased under this contract. For each piece of equipment sold, EPEAT Registration Status (i.e. Bronze, Silver, Gold or Unregistered) must be provided.
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Green Seal

The Original Green Seal of Approval Since 1989

Green Seal uses science-based programs to empower consumers, purchasers, and companies to create a more sustainable world.

find the right solution for:
- consumers
- companies
- institutions

latest news
- Hotels & Green Marketing with Updated FTC Green Guides - A guest blog post by G S President Arthur Weissman in HOTELS Magazine
- Is Your Cleaning Contractor Green? - An article featuring Green Seal in Environmental Leader
- We’ve released GS-48 & GS-51 - New standards for laundry care for household and I&I cleaning. Read the Press Release
Green Seal
Scope

Green Seal is a non-profit organization that uses science-based programs to empower consumers, purchasers and companies to create a more sustainable world.

Green Seal was founded in 1989, when there were no other environmental certification programs in the US, to develop a tool to help shoppers find truly green products. The Green Seal stands for absolute integrity and over the years has grown to symbolize environmental leadership by continuing to represent unquestionably green products and services.
Green Seal
Product Categories Covered

- Household Products (GS-8, GS-21)
- Construction Materials & Equipment (GS-13, GS-31, GS-36)
- Paints & Coatings (GS-11, GS-43, GS-47)
- Printing & Writing Paper (GS-7, GS-10, GS-15)
- Cleaning Services (GS-42 & GS-49)
- Hotels & Lodging Properties (GS-33)
- Paper Towels, Napkins & Tissue Paper (GS-1, GS-9)
- Food Packaging (GS-18, GS-36)
- Institutional Cleaning Products (GS-34, GS-37, GS-40, GS-53)
- Hand Soaps & Cleaners (GS-41)
- Personal Care Products (GS-50)
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Green Seal
Scope – Institutional Cleaners (GS-37)

- Low toxicity
- No cancer-causing ingredients
- No asthmagens
- Not corrosive to eyes or skin or skin sensitizer
- Won’t pollute air or deplete ozone layer
- Won’t kill fish
- Low phosphorous

- Will biodegrade
- Package recyclable
- Available as concentrate
- Limits on fragrances used
- Certain ingredients prohibited
- Performance tested
- Vendor training available
Eco Logo

Get Certified

EcoLogo is North America’s largest, most respected environmental standard and certification mark.

- Are you an environmental leader? Get EcoLogo-certified...

About EcoLogo

Founded in 1988 by the Government of Canada but now recognized world-wide, EcoLogo™ is North America’s largest, most respected environmental standard and certification mark. EcoLogo provides customers – public, corporate and consumer – with assurance that the products and services bearing the logo meet stringent standards of environmental leadership. THOUSANDS of EcoLogo Certified products. EcoLogo certifies environmental leaders covering a large variety of categories, helping you find and trust the world’s most sustainable products.

The EcoLogo Program is a Type I eco-label, as defined by the International Organization for Standardization (ISO). This means that the Program compares products/services with others in the same category, develops rigorous and scientifically relevant criteria that reflect the entire lifecycle of the product, and awards the EcoLogo to those that are verified by an independent third party as complying with the criteria.

The EcoLogo Program is one of two such programs in North America that has been successfully audited by the Global EcoLabeling Network (GEN) as meeting ISO 14024 standards for eco-labeling.
Eco Logo

Scope

Founded in 1988 by the Government of Canada but now recognized worldwide, EcoLogo is North America’s largest, most respected environmental standard and certification mark. EcoLogo provides customers – public, corporate and consumer – with assurance that the products and services bearing the logo meet stringent standards of environmental leadership.

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Eco Logo
Product Categories Covered

Professional Purchasers: Search Green Products and Services

The EcoLogo Program site is one tool you can use to help make greener purchasing decisions. Browse for trusted green products and services.

Filter by Category:

- Select One
- Automotive Related Products & Services
- Building & Construction Products
- Cleaning & Janitorial Products
- Consumer Products
- Containers, Packaging, Bags & Sacks
- Electricity Products
- Events
- Fuels, Lubricants & Related Products
- Marine Products
- Office Furniture, Equipment & Business Products
- Printing Products & Services
- Pulp & Paper Products
- Services
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e-Stewards

- Friendly Earth Achieves e-Stewards Certification
- Electronics Recycler Convicted for Illegal Exports to Developing Countries
- Best Buy: Sustainability amidst turmoil
- Basel Action Network Applauds Best Buy’s Decision to Use Electronics Recyclers Certified to Both e-Stewards and 122 Standards

Donate to e-Stewards: Donate

Find an e-Stewards® Recycler

The Story of Electronics

Signup for the e-Stewards® newsletter!
The e-Stewards Initiative is a project of the Basel Action Network (BAN), which is a 501(c)3 non-profit, charitable organization of the United States, based in Seattle, Washington. It is against the backdrop of the growing e-waste crisis that the e-Stewards Initiative was born.

The e-Stewards Standard for Responsible Recycling and Reuse of Electronic Equipment® is an industry-specific environmental management system standard designed as the basis for the e-Stewards Certification. It was developed with detailed input from experts in the recycling and asset recovery industries, the environmental community, occupational health and safety professionals, and the certification and accreditation industries.
While there are other guidelines written for the recycling industry, the e-Stewards Standard is the only e-waste standard that:

- Is “All-In-One” – encompasses a certified ISO 14001 environmental management system and R2 (Responsible Recycling) Practices.
- Prohibits all toxic waste from being disposed of in solid waste landfills and incinerators
- Requires full compliance with existing international hazardous waste treaties for exports and imports of electronics, and specifically prohibits the export of hazardous waste from developed to developing countries
- Prohibits the use of prison labor in the recycling of toxic electronics, which often have sensitive data embedded
- Requires extensive baseline protections for and monitoring of recycling workers in every country, including developed nations where toxic exposures are routinely taking place
- Is written for international use
FSC certification ensures that products come from responsibly managed forests that provide environmental, social and economic benefits.

The FSC system includes two different types of certificates: Forest Management and Chain of Custody. Forest Management certification is awarded to forest managers or owners whose management practices meet the requirements of the FSC US Forest Management Standard.

Chain-of-Custody certification applies to manufacturers, processors and traders of FSC-certified forest products. It ensures the validity of claims associated with all FSC-certified material and products throughout the production chain.

To achieve its mission and vision, FSC has developed a set of 10 principles and 57 Criteria that apply to FSC-certified forests around the world.
Sustainable Purchasing 101/102

Forest Stewardship Council (FSC) Sample Specification Language
Fair Trade USA is a 501 (c) (3) nonprofit organization and the leading third-party certifier of Fair Trade products in the United States. Fair Trade USA uses a market-based approach that gives farmers fair prices, workers safe conditions, and entire communities resources for fair, healthy and sustainable lives. Fair Trade USA also provides farmers in developing nations the tools to thrive as international business people, instead of creating dependency on aid.
Sustainable Purchasing 101/102

Fair Trade
Product Categories Covered

- Apparel & Linens
- Beans & Grains
- Body Care
- Cocoa
- Coffee
- Flowers & Plants
- Fruits & Vegetables
- Herbs & Spices
- Honey
- Multi-Ingredient Foods
- Nuts & Oilseeds
- Spirits
- Sports balls
- Sugar
- Tea
- Wine
Sustainable Purchasing 101/102

Single Attribute Certifications

Energy Star

Compostable

FEMP

Greenguard

WaterSense

Chlorine Free

BioPreferred

Green-e
Sustainable Purchasing 101/102

Energy Star

ENERGY STAR Qualified Products

Save energy and fight climate change with ENERGY STAR qualified products. They use less energy, save money, and help protect the environment.

Features

- ENERGY STAR Products 20th Anniversary Retrospective
- Learn about Tax Credits
- Make A Change
- Heating & Cooling Efficiently
- Heating Seasonal Footprint

For 20 years, ENERGY STAR products have helped Americans save energy, save money, and reduce their carbon footprints. Explore this compelling retrospective on the powerful public-private partnership that built a globally recognized consumer brand and transformed the markets for energy-efficient products. Download the Retrospective (1.1MB) or order a hard copy.

Where Does My Money Go?

The annual energy bill for a typical single family home is approximately $2,500.

Tip of the Day

March 25, 2013

Use the bathroom fan after a shower to reduce humidity and help your office last longer.

BuyGreen

Maryland Green Purchasing Committee
Energy Star
Scope

ENERGY STAR is a trusted, government-backed program for energy efficiency.
The ENERGY STAR label was established to:
Reduce greenhouse gas emissions and other pollutants caused by the inefficient use of energy; and
Make it easy for consumers to identify and purchase energy-efficient products that offer savings on energy bills without sacrificing performance, features, and comfort.
Products are independently certified and earn the ENERGY STAR label by meeting the energy efficiency requirements set forth in ENERGY STAR product specifications.
# Energy Star

## Product Categories Covered

<table>
<thead>
<tr>
<th>All Products</th>
<th>For Your Home</th>
<th>Business &amp; Government</th>
<th>Products in Development</th>
<th>Can't Find a Product?</th>
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<tbody>
<tr>
<td><strong>Building Products</strong></td>
<td>Seal and Insulate</td>
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<tr>
<td></td>
<td>Roof Products</td>
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<td></td>
<td>Windows, Doors and Skylights</td>
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<td><strong>Commercial Appliances</strong></td>
<td>Commercial Clothes Washers</td>
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<td></td>
<td>Vending Machines</td>
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<tr>
<td></td>
<td>Water Coolers</td>
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<tr>
<td><strong>Commercial Food Service Equipment</strong></td>
<td>Commercial Kitchen Package</td>
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<td>Commercial Dishwashers</td>
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<td>Commercial Fryers</td>
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<td>Commercial Griddles</td>
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<td>Commercial Hot Food Holding Cabinets</td>
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<td>Commercial Ice Machines</td>
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<td>Commercial Ovens</td>
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<tr>
<td></td>
<td>Commercial Refrigerators &amp; Freezers</td>
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<tr>
<td></td>
<td>Commercial Steam Cookers</td>
<td></td>
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<tr>
<td><strong>Computers</strong></td>
<td>Computers</td>
<td></td>
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<tr>
<td></td>
<td>Displays</td>
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<tr>
<td></td>
<td>Enterprise Servers</td>
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<td></td>
<td>Imaging Equipment</td>
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<tr>
<td></td>
<td>Uninterruptible Power Supplies</td>
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<tr>
<td><strong>Electronics</strong></td>
<td>Audio/Video</td>
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<td></td>
<td>Cordless Phones</td>
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<td></td>
<td>Set-top Boxes &amp; Cable Boxes</td>
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<td>Televisions</td>
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<tr>
<td><strong>Battery Chargers</strong></td>
<td>Handheld Vacuums with Qualified Chargers</td>
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<td>Personal Care Products with Qualified Chargers</td>
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<td>Power Tools with Qualified Chargers</td>
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<td>Yard Care Tools with Qualified Chargers</td>
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<td><strong>Heating &amp; Cooling</strong></td>
<td>Air Conditioning, Central</td>
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<td></td>
<td>Boilers</td>
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<td>Fans, Ventilating</td>
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<td>Heat pumps, Geothermal</td>
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<td>Light Commercial Heating &amp; Cooling</td>
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<td><strong>Lighting</strong></td>
<td>Commercial LED Lighting</td>
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<td>Light bulbs</td>
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<td>Light Fixtures</td>
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<td><strong>Water Heaters</strong></td>
<td>Water Heater, Gas Condensing</td>
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<td>Water Heater, Heat Pump</td>
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<td>Water Heater, High Efficiency Gas Storage</td>
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<td>Water Heater, Solar</td>
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<td></td>
<td>Water Heater, Whole Home Gas Tankless</td>
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</tbody>
</table>
ENERGY EFFICIENCY IN ENERGY-CONSUMING PRODUCTS (DEC 2007)

(a) Definition. As used in this clause—“Energy-efficient product” means a product that—
   (1) Meets Department of Energy and Environmental Protection Agency criteria for use of the Energy Star® trademark label; or
   (2) Is in the upper 25 percent of efficiency for all similar products as designated by the Department of Energy’s Federal Energy Management Program.

(b) The Contractor shall ensure that energy-consuming products are energy efficient products (i.e., ENERGY STAR products or FEMP designated products) at the time of contract award, for products that are—
   (1) Delivered;
   (2) Acquired by the Contractor for use in performing services at a Government facility;
   (3) Furnished by the Contractor for use by the Government; or
   (4) Specified in the design of a building or work, or incorporated during its construction, renovation, or maintenance.

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(d) Information about these products is available for—
   (1) ENERGY STAR at http://www.energystar.gov/products; and
   (2) FEMP at www.femp.energy.gov/technologies/eep_purchasingspecs.html.
Energy Star Case Study

Chicago, IL public housing authority cut its annual electricity bill $500,000 by purchasing 10,000 ENERGY STAR-rated refrigerators.

The US Air Force has approximately 525,000 computers in us. It undertook a power management implementation and reporting program beginning in 2009, completed in 2010, to ensure 95% of all computers and monitors are ENERGY STAR qualified, with anticipating savings of $15 million annually.
Energy-Efficient Product Procurement

Federal agencies are required to procure energy-efficient products. FEMP helps Federal purchasers comply with these requirements by identifying energy- and water-efficient products that meet Federal acquisition requirements, save taxpayer dollars, and reduce environmental impacts.

Learn about:
- Federal requirements
- Energy requirements and product categories
- Product designation process for certified product categories
- Products with low standby power
- Energy and cost savings benefits
- Model specifications necessary to include in contracts
- Product procurement policies and procedures
- Publications, training, and other resources

Read the energy-efficient product procurement overview.

Benefits

For many product types, the Federal Government is the largest purchaser in the world. Federal energy-efficient product procurement can therefore impact the worldwide market. By setting a clear standard for energy performance, Federal procurement requirements can shift the market toward greater production of energy-efficient products. That, in turn, improves availability and reduces cost for all consumers.

Find out about the benefits of buying energy-efficient products.

Learn about selling energy-efficient products to the Federal Government.

Sign up for e-mail updates about energy-efficient product procurement.
Federal Energy Management Program (FEMP)
Scope

Federal agencies are required to procure energy-efficient products. FEMP helps Federal purchasers comply with these requirements by identifying energy- and water-efficient products that meet Federal acquisition requirements, save taxpayer dollars, and reduce environmental impacts. Specifically, each product categories identified are either covered by FEMP-designated or ENERGY STAR®. Some office equipment and electronics are also covered by EPEAT or low standby power requirements.
### Federal Energy Management Program (FEMP)

#### Product Categories Covered

<table>
<thead>
<tr>
<th>Heating &amp; Cooling (Space &amp; Water)</th>
<th>Lighting</th>
<th>IT &amp; Electronics</th>
<th>Food Service</th>
<th>Appliances</th>
<th>Other</th>
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<tr>
<td><strong>Commercial Space Heating and Cooling</strong></td>
<td><img src="image1" alt="Lighting Components" /></td>
<td><img src="image2" alt="Information Technology" /></td>
<td><img src="image3" alt="Electronics" /></td>
<td><img src="image4" alt="Appliances" /></td>
<td><img src="image5" alt="Other" /></td>
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<tr>
<td>Boilers</td>
<td>Fluorescent Ballasts</td>
<td>Computers</td>
<td>Audio/Video</td>
<td>Clothes Washers (Commercial)</td>
<td></td>
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<tr>
<td>Light Commercial Heating and Cooling</td>
<td>Fluorescent Tube Lamps</td>
<td>Displays and Monitors</td>
<td>Battery Chargers</td>
<td>Clothes Washers (Residential)</td>
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<tr>
<td>Chillers:</td>
<td>Light Bulbs:</td>
<td>Enterprise Servers</td>
<td>Cordless Phones</td>
<td>Dishwashers (Residential)</td>
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<tr>
<td>Air-Cooled Electric</td>
<td>Compact Fluorescent (CFLs)</td>
<td>Imaging Equipment</td>
<td>Set-Top and Cable Boxes</td>
<td>Freezers (Residential)</td>
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<tr>
<td>Water-Cooled Electric</td>
<td>Light Emitting Diodes (LEDs)</td>
<td>Uninterruptible Power Supplies</td>
<td>Televisions (TVs)</td>
<td>Refrigerators (Residential)</td>
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<tr>
<td>Ground-Source Heat Pumps</td>
<td>Decorative Light Strings</td>
<td>Electronics</td>
<td></td>
<td>Room Air Cleaners and Purifiers</td>
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<tr>
<td><strong>Commercial Water Heating</strong></td>
<td>Lighting Systems</td>
<td></td>
<td></td>
<td>Room Dehumidifiers</td>
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<tr>
<td>Gas Water Heaters</td>
<td>Light fixtures:</td>
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<td></td>
<td>Commercial</td>
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<td>Residential</td>
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<td>Exterior</td>
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<td></td>
<td>Fluorescent Luminaires</td>
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Sustainable Purchasing 101/102

WaterSense

Water-Saving Products
WaterSense makes it easy to find and select water-efficient products that can help your wallet and the environment. Just look for products bearing the WaterSense Label at your local retailer.

WaterSense labeled products are backed by independent third-party testing and certification, and meet EPA’s specifications for water efficiency and performance. When you use these water-saving products in your home or business, you can expect exceptional performance, savings on your water bills, and assurance that you are saving water for future generations.

Water Efficiency Is Just a Click Away!
- Toilets
- Bathroom sink faucets
- Urinals
- New Homes
- Showers
- Weather-based irrigation controllers
- Why isn’t my product listed?

Check out what new water-efficient products are In the Pipeline for WaterSense!
- Find a WaterSense labeled product.
- Find water-saving rebate programs offered by WaterSense partners.
- Find out how much water, energy, and money water-efficient products can save you.

BuyGreen
Maryland Green Purchasing Committee
WaterSense helps people save water with a product label and tips for saving water around the house. Products carrying the WaterSense label perform well, help save money, and encourage innovation in manufacturing.

WaterSense partners with manufacturers, retailers and distributors, and utilities to bring WaterSense labeled products to the marketplace and make it easy to purchase high-performing, water-efficient products. WaterSense also partners with irrigation professionals and irrigation certification programs to promote water-efficient landscape irrigation practices.

Since the program's inception in 2006, WaterSense has helped consumers save a cumulative 287 billion gallons of water and over $4.7 billion in water and energy bills.
WaterSense
Product Categories Covered

Water Efficiency Is Just a Click Away!

- Toilets
- Bathroom sink faucets
- Urinals
- New homes
- Showerheads
- Weather-based irrigation controllers
1.0 Scope and Objective
This specification establishes the criteria for high-efficiency lavatory faucets and faucet accessories under the U.S. Environmental Protection Agency's (EPA's) WaterSense® program. It is applicable to lavatory faucets, lavatory faucet accessories specifically designed to control the flow of water, and any other lavatory faucet technologies that meet these performance specifications. The specification is designed to ensure both sustainable, efficient water use and a high level of user satisfaction with lavatory faucet and lavatory faucet accessory performance.

2.0 Water Efficiency and Performance Criteria

2.1 Lavatory faucets and lavatory faucet accessories must conform to applicable requirements in ASME A112.18.1/CSA B125.1 and NSF/ANSI Standard 61, Section 9.2

2.2 The flow rate of the lavatory faucet or the lavatory faucet accessory shall be tested in accordance with the procedures in ASME A112.18.1/CSA B125.1 and shall meet the following criteria:

- The maximum flow rate shall not exceed 1.5 gallons per minute (gpm) (5.7 liters per minute [L/min]) at a pressure of 60 pounds per square inch (psi) at the inlet, when water is flowing; and
- The minimum flow rate shall not be less than 0.8 gpm (3.0 L/min) at a pressure of 20 psi at the inlet, when water is flowing. A lavatory faucet is also considered to meet this flow rate requirement if equipped with a lavatory faucet accessory that meets this requirement.

2.3 The flow rate, tested in accordance with the procedures in ASME A112.18.1/CSA B125.1, shall meet the testing verification protocol as described in 10 CFR 430 Subpart F, Appendix B.
Sustainable Purchasing 101/102

BioPreferred

BioPreferred® program was created by the Farm Security and Rural Investment Act of 2002 (2002 Farm Bill), and expanded by the Food, Conservation, and Energy Act of 2008 (2008 Farm Bill). The purpose is to increase the purchase and use of biobased products. The United States Department of Agriculture manages the program.

BioPreferred includes:
- a preferred procurement program for Federal agencies and their contractors,
- a voluntary labeling program for the broad scale consumer marketing of biobased products.

Under the procurement program, BioPreferred designates categories of biobased products that are required for purchase by Federal agencies and their contractors. As a part of this process, the minimum biobased content is specified. Going forward, biobased intermediate ingredients and feedstocks will be included in the designation process.

Under the voluntary labeling program, biobased products that meet the BioPreferred program requirements carry a distinctive label for easier identification by the consumer.
BioPreferred

Scope

The BioPreferred® program was created by the Farm Security and Rural Investment Act of 2002 (2002 Farm Bill), and expanded by the Food, Conservation, and Energy Act of 2008 (2008 Farm Bill). The purpose is to increase the purchase and use of biobased products. The United States Department of Agriculture manages the program.

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Sustainable Purchasing 101/102

BioPreferred
Product Categories Covered

BioPreferred Program Product Categories
January 2013

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<thead>
<tr>
<th>Janitorial</th>
<th>Minimum BioPreferred Content</th>
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<tbody>
<tr>
<td>Adhesive and Mastic Removers</td>
<td>58%</td>
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<tr>
<td>Air Fresheners and Deodorizers</td>
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<td>Bathroom and Spa Cleaners</td>
<td>74%</td>
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<td>Carpet and Upholstery Cleaners:</td>
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<td>General Purpose</td>
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<td>Spot Removers</td>
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<td>Dishwashing Products</td>
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<td>Electronic Components Cleaners</td>
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<td>Floor Cleaners and Protectors</td>
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<td>Floor Strippers</td>
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<td>Furniture Cleaners and Protectors</td>
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<td>General Purpose Household Cleaners</td>
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<td>Glass Cleaners</td>
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<td>Industrial Cleaners</td>
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<td>Ink Removers and Cleaners</td>
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<td>Laundry Products:</td>
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<td>General Purpose</td>
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<td>Pretreatment/Spot Removers</td>
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<td>Leather, Vinyl, and Rubber Care Products*:</td>
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<td>Multipurpose Cleaners</td>
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<td>Oven &amp; Grill Cleaners</td>
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<td>Specialty Precision Cleaners and Solvents*:</td>
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<td>Bioremediation Materials</td>
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<tr>
<td>Compost Activators and Accelerators</td>
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<td>Concrete and Asphalt Cleaners</td>
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</tr>
<tr>
<td>Dehatchers*</td>
<td>87%</td>
</tr>
<tr>
<td>Dust Suppressants</td>
<td>85%</td>
</tr>
<tr>
<td>Erosion Control Materials</td>
<td>77%</td>
</tr>
<tr>
<td>Fertilizers</td>
<td>71%</td>
</tr>
<tr>
<td>General Purpose De-Icers</td>
<td>93%</td>
</tr>
<tr>
<td>Mulch and Compost Materials</td>
<td>95%</td>
</tr>
<tr>
<td>Sorbents</td>
<td>89%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Miscellaneous</th>
<th>Minimum BioPreferred Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bedding, Bed Linens, and Towels</td>
<td>12%</td>
</tr>
<tr>
<td>Candles and Wax Melts</td>
<td>88%</td>
</tr>
<tr>
<td>Thermal Shipping Containers:</td>
<td></td>
</tr>
<tr>
<td>Durable</td>
<td>21%</td>
</tr>
<tr>
<td>Non-Durable</td>
<td>82%</td>
</tr>
<tr>
<td>Films:</td>
<td></td>
</tr>
<tr>
<td>Non-Durable</td>
<td>85%</td>
</tr>
<tr>
<td>Semi-Durable</td>
<td>45%</td>
</tr>
<tr>
<td>Packing and Insulating Materials</td>
<td>74%</td>
</tr>
<tr>
<td>Water Clarifying Agents*</td>
<td>92%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Food Service</th>
<th>Minimum BioPreferred Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposable Containers</td>
<td>72%</td>
</tr>
<tr>
<td>Disposable Cutlery</td>
<td>48%</td>
</tr>
<tr>
<td>Disposable Tableware</td>
<td>72%</td>
</tr>
<tr>
<td>Food Cleaners</td>
<td>53%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Industrial Lubricants and Fluids</th>
<th>Minimum BioPreferred Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Cycle Engine Oils</td>
<td>34%</td>
</tr>
<tr>
<td>Asphalt and Tar Removers</td>
<td>60%</td>
</tr>
<tr>
<td>Asphalt Restorers</td>
<td>68%</td>
</tr>
<tr>
<td>Chain and Cable Lubricants</td>
<td>77%</td>
</tr>
<tr>
<td>Concrete and Asphalt Release Fluids</td>
<td>87%</td>
</tr>
<tr>
<td>Corrosion Preventatives</td>
<td>53%</td>
</tr>
<tr>
<td>Diesel Fuel Additives</td>
<td>90%</td>
</tr>
<tr>
<td>Expanded Polystyrene (EPS)</td>
<td>90%</td>
</tr>
<tr>
<td>Foam Recycling Products</td>
<td>90%</td>
</tr>
<tr>
<td>Firearm Lubricants</td>
<td>49%</td>
</tr>
<tr>
<td>Fluid-Filled Transformers:</td>
<td></td>
</tr>
<tr>
<td>Synthetic Ester-Based</td>
<td>66%</td>
</tr>
<tr>
<td>Vegetable Oil-Based</td>
<td>95%</td>
</tr>
<tr>
<td>Forming Lubricants</td>
<td>68%</td>
</tr>
<tr>
<td>Fuel Conditioners*</td>
<td>64%</td>
</tr>
<tr>
<td>Gear Lubricants</td>
<td>58%</td>
</tr>
<tr>
<td>Greases:</td>
<td></td>
</tr>
<tr>
<td>Food Grade</td>
<td>42%</td>
</tr>
<tr>
<td>Multipurpose</td>
<td>72%</td>
</tr>
<tr>
<td>Other</td>
<td>75%</td>
</tr>
<tr>
<td>Rail Track</td>
<td>30%</td>
</tr>
<tr>
<td>Truck</td>
<td>71%</td>
</tr>
<tr>
<td>Heat Transfer Fluids</td>
<td>89%</td>
</tr>
<tr>
<td>Hydraulic Fluids:</td>
<td></td>
</tr>
<tr>
<td>Mobile Equipment</td>
<td>44%</td>
</tr>
<tr>
<td>Stationary Equipment</td>
<td>44%</td>
</tr>
</tbody>
</table>

Inks:
- Specialty Inks: 68%
- Sheeted – Color: 67%
- Sheeted – Black: 49%
- Printer Toner - <25 pages per minute (ppm): 34%
- Printer Toner - >25 ppm: 20%
- News: 32%

Metalworking Fluids:
- General Purpose Soluble, Semi-Synthetic, and Synthetic Oils: 57%
- High Performance Soluble, Semi-Synthetic, and Synthetic Oils: 40%
- Straight Oils: 66%
- Multipurpose Lubricants: 88%
- Parts Wash Solution: 65%
- Penetrating Lubricants: 66%
- Pneumatic Equipment Lubricants: 67%
- Slide Way Lubricants: 74%
- Turbine Drip Oils: 87%
**Affirmative Procurement of Biobased Products Under Service and Construction Contracts**

(a) In the performance of this contract, the Contractor shall make maximum use of biobased products that are USDA-designated items, unless the product cannot be acquired -

(1) Competitively within a time frame providing for compliance with the contract performance schedule;

(2) Meeting contract performance requirements; or

(3) At a reasonable price.

(b) Information about this requirement and these products is available at www.biopreferred.gov.
Compostable

Welcome to BPI® World

The Biodegradable Products Institute (BPI) is a not-for-profit association of key individuals and groups from government, industry and academia.

Through our innovative **compostable label** program, we educate manufacturers, legislators and consumers about the importance of **scientifically based standards** for compostable materials which biodegrade in large composting facilities.

We also promote the use and recovery of compostable materials through municipal composting. And we provide information and resources such as how to **find a composter**.

Click on the link for a complete list of BPI members and BPI-approved products.
The Biodegradable Products Institute (BPI) is a not-for-profit association of key individuals and groups from government, industry and academia.

The Institute has created the Compostable Logo, which is designed to identify products that have been scientifically proven to biodegrade, leaving no persistent synthetic residues. The Compostable logo builds credibility and recognition for products that meet the ASTM D6400 and/or D6868 standards so consumers, composters, regulators and others can be assured that the product will biodegrade as expected.

The logo is designed to be easily recognizable and able to be placed on the actual product as well as packaging materials and sales literature.
Compostable Product Categories Covered

Find Certified Compostable Products

This directory lists products that have been tested and certified to be biodegradable in a managed composting facility. To be listed on this site, a company must submit its products for testing at a certified laboratory.

Certified Compostable Bags
Certified Compostable Resins
Certified Compostable Foodservice Items
Certified Compostable Packaging Materials
Sustainable Purchasing 101/102

Greenguard

The GREENGUARD Certification Program

What is GREENGUARD Certification?

Simply put, GREENGUARD Certification ensures that a product has met some of the world’s most rigorous and comprehensive standards for low emissions of volatile organic compounds (VOCs) into indoor air.

GREENGUARD Certification Helps Identify Healthier Products

As the demand for healthier, more sustainable products continues to expand, consumers and building industry professionals increasingly demand substantiation of product sustainability claims and rely on trustworthy third-party certifiers to guide purchasing and specification decisions. GREENGUARD Certification provides the market with solutions and resources to identify products with lower chemical emissions, and provides manufacturers with credible tools to legitimize and promote their sustainability efforts.

Indoor air quality (IAQ) is closely tied to health, and is therefore recognized as an important concern in homes, schools, healthcare environments and commercial spaces. Volatile organic compound (VOC) emissions from building materials and furnishings is a major source of indoor air pollution. GREENGUARD Certification has been widely adopted as a trusted standard for low-emitting products. In fact, more than 400 green building codes, standards, guidelines, procurement policies and rating systems give credit for GREENGUARD Certified products.

Certification Types

**GREENGUARD Indoor Air Quality Certified®**

A product certification program for low-emitting building materials, furniture, furnishings, finishes, cleaning products, electronics and consumer products. GREENGUARD Indoor Air Quality Certified products meet stringent certification requirements and must undergo both annual re-certification and quarterly quality monitoring to ensure ongoing compliance. Certified products are showcased in the free GREENGUARD Product Guide.

**GREENGUARD Children & Schools Certified®**

A product certification program for low-emitting building materials, furniture, finishes, cleaning products, electronics and consumer products used in environments where children and other sensitive populations spend extended periods of time. All GREENGUARD Children & Schools Certified products meet the stringent GREENGUARD Children & Schools Certification requirements, including limits outlined in California’s Department of Public Health Services Standard Practice for Specification Section 01330, and undergo both annual re-certification and quarterly quality monitoring to ensure ongoing compliance. Certified products are displayed in the free GREENGUARD Product Guide.
The Biodegradable Products Institute (BPI) is a not-for-profit association of key individuals and groups from government, industry and academia.

The Institute has created the Compostable Logo, which is designed to identify products that have been scientifically proven to biodegrade, leaving no persistent synthetic residues. The Compostable logo builds credibility and recognition for products that meet the ASTM D6400 and/or D6868 standards so consumers, composters, regulators and others can be assured that the product will biodegrade as expected.

The logo is designed to be easily recognizable and able to be placed on the actual product as well as packaging materials and sales literature.
## Greenguard

### Product Categories Covered

<table>
<thead>
<tr>
<th>Product Category</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesives/ Sealants</td>
<td>Floor Finish</td>
<td>Panels</td>
<td></td>
</tr>
<tr>
<td>Air Filters</td>
<td>Flooring</td>
<td>Plastic Fabrication</td>
<td></td>
</tr>
<tr>
<td>Bathroom Products</td>
<td>Furniture</td>
<td>Signage</td>
<td></td>
</tr>
<tr>
<td>Building Construction Materials</td>
<td>Gymnasium Equipment</td>
<td>Storage Solutions</td>
<td></td>
</tr>
<tr>
<td>Cabinetry</td>
<td>Insulation</td>
<td>Surfacing Materials</td>
<td></td>
</tr>
<tr>
<td>Ceiling Systems</td>
<td>Lighting</td>
<td>Textiles</td>
<td></td>
</tr>
<tr>
<td>Cleaning Products/ Systems</td>
<td>Mattresses &amp; Bedding</td>
<td>Visual Display Products</td>
<td></td>
</tr>
<tr>
<td>Countertops</td>
<td>Medical Devices</td>
<td>Wall Finish</td>
<td></td>
</tr>
<tr>
<td>Doors</td>
<td>Paints and Coatings</td>
<td>Window Treatments</td>
<td></td>
</tr>
<tr>
<td>Electronics</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Chlorine Free Products Association

About Us

The Chlorine Free Products Association (CFPA) is an independent not-for-profit accreditation & standard setting organization, incorporated in the state of Illinois. The primary purpose of the association is to promote Total Chlorine Free policies, programs, and technologies throughout the world. Our mission is to provide market awareness by providing facts, drawing direct comparisons, and highlight process advantages for Totally Chlorine Free (TCP) and Processed Chlorine Free (PCF) products.

CFPA Goals and Purpose

- Serve as a balanced, authoritative national, continental, and international leadership group.
- Enhance market visibility and awareness of the Chlorine Free approach, including products, systems and benefits.
- Stimulate research and development programs at federal agencies.
- Assist in developing Chlorine Free products appropriate for demonstration and consumer marketplace.
- Initiate and promote the development of Chlorine Free demonstration programs for commercial, academic, community, government, trade shows and conferences.
- Develop a strategy to incorporate specifications into purchasing requirements.
- Assist in setting government Chlorine Free priorities.
- Stimulate the creation and adoption of national, continental and international specifications, standards and certification.
- Develop a program to conduct economic analysis of the benefits of Chlorine Free products and technologies.
- Collaborate with national, continental and international organization and associations.
- Publish information and stimulate education on Chlorine Free products and technologies.

CFPA Programs & Activities

Benefits Program
Demonstration Program
Educational Program
Government Collaboration
International Program
Market Development Program
Research & Development Program
Standards & Codes
The Chlorine Free Products Association (CFPA) is an independent not-for-profit accreditation & standard setting organization, incorporated in the state of Illinois. The primary purpose of the association is to promote Total Chlorine Free policies, programs, and technologies throughout the world.

The CFPA’s mission is to provide market awareness by providing facts, drawing direct comparisons, and highlight process advantages for Totally Chlorine Free (TCF) and Processed Chlorine Free (PCF) products.
Green-e

The nation's leading certification program for renewable energy

Verified, certified greenhouse gas emission reductions

The symbol of renewable energy excellence

Buy Green-e Certified

Program Updates

Green-e Energy National Standard Update
December 18, 2012. Green-e Energy is pleased to announce that it updated its main governing document, the Green-e Energy National Standard. This update includes three changes and additions: new rules for working with California’s AB32 Cap-and-Trade program, Canadian generators and Ecoligo, and New Jersey in the Regional Greenhouse Gas Initiative. See the changes in the Green-e Energy Program Update.
Green-e is the nation's leading independent certification and verification program for renewable energy and greenhouse gas emission reductions in the retail market.

It has two certification and one verification programs:

**Green-e Climate** is a voluntary certification program launched in 2008 that sets consumer-protection and environmental-integrity standards for greenhouse gas (GHG) emission reductions sold in the voluntary market.

**Green-e Energy** is the nation's leading independent certification and verification program for renewable energy.

**Green-e Marketplace** is a program that allows companies to display the logo when they have purchased a qualifying amount of renewable energy and passed our verification standards.

The program is administered by the Center for Resource Solutions (CRS).
## Organizations Using Renewable Energy

We welcome the opportunity to work with organizations to maximize the impact of their renewable energy commitment through Green-e Marketplace. Want to reduce your footprint? Please buy renewable energy and support the following organizations that purchase or generate a qualifying amount of certified renewable energy. The EPA’s Green Power Partnership is another good resource where you can learn more about organizations committed to using renewable energy.

<table>
<thead>
<tr>
<th>Organization</th>
<th>Commitment Level</th>
<th>Member since</th>
<th>Category</th>
<th>Renewable Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amercraft</td>
<td>100%</td>
<td>2007</td>
<td>Home &amp; Office</td>
<td>Utility Green Power</td>
</tr>
<tr>
<td>Utopia</td>
<td>20%</td>
<td>2011</td>
<td>Printing &amp; Packaging</td>
<td>Renewable Energy Certificate</td>
</tr>
<tr>
<td>Aromafloria</td>
<td>100%</td>
<td>2007</td>
<td>Health &amp; Beauty</td>
<td>Utility Green Power</td>
</tr>
<tr>
<td>Aveda</td>
<td>100%</td>
<td>2007</td>
<td>Health &amp; Beauty</td>
<td>Utility Green Power</td>
</tr>
</tbody>
</table>
The U.S. EPA’s Design for the Environment program helps consumers, businesses, and institutional buyers identify cleaning and other products that perform well, are cost-effective, and are safer for the environment.

Look for products with the DfE label and protect your family’s health and the planet.

Find Products with the DfE Label

- All-Purpose Cleaners
- Window Cleaners
- Tub/Tile Cleaners
- Laundry Detergents
- more...

Find products más seguros en español

Frequently Asked Questions

- Where can I find a list of products with the DfE label?
- How do I apply to get the DfE label on my products?

What’s New with DfE?

- September 19, 2012 – Through its DfE program, EPA has posted a list of Safer Chemical Ingredients for use in DfE-labeled products. Read more about the list and accompanying changes to the DfE Standard (PDF). Please send questions to Bridget Williams (Williams.Bridget@epa.gov)
- July 31, 2012 – Through its DfE program, EPA has released for comment the draft report “Bisphenol A...
EPA’s Design for the Environment (DfE) works in partnership with industry, environmental groups, and academia to reduce risk to people and the environment by finding ways to prevent pollution. For more than 15 years, through partnership projects, DfE has evaluated human health and environmental concerns associated with traditional and alternative chemicals and processes in a range of industries.

The Design for the Environment (DfE) label enables consumers to quickly identify and choose products for which the DfE scientific review team has screened each ingredient for potential human health and environmental effects and established that—based on currently available information, EPA predictive models, and expert judgment—the product contains only those ingredients that pose the least concern among chemicals in their class.
Design for the Environment (DfE)

Product Categories Covered

- Air Conditioner Coil Cleaners
- Aircraft Cleaning Products
- All-Purpose Cleaners
- Athletic Field Paints
- Automatic Dishwasher Detergents
- Biological-Based Products: Bilge Maintainers
- Biological-Based Products: Bioremediators
- Biological-Based Products: Drain Maintainers
- Biological-Based Products: Grease Trap/Lift Station Maintainers
- Biological-Based Products: Septic System Treatments
- Biological-Based Products: Wastewater Inoculants
- Brick and Masonry Cleaners
- Car Care Products
- Carpet Cleaners
- Degreasers
- Deicers
- Descalers
- Dish Soaps
- Fire-Fighting Products
- Floor Care Products: Floor Cleaners
- Floor Care Products: Floor Finishes
- Floor Care Products: Floor Strippers
- Hand Soaps
- Kitchen/Countertop Cleaners
- Laundry Products: Fabric Softeners
- Laundry Products: Laundry Detergents
- Laundry Products: Pre-Treaters
- Leather Cleaners
- Marine/RV Cleaners
- Medical Instrument Cleaners
- Metal Cleaner/Polishes
- Odor Removers
- Oven/Grill/Barbeque Cleaners
- Parts Washers
- Soluble Films
- Stainless Steel Cleaners
- Tire Additives
- Toilet Bowl Cleaners
- Tub/Tile Cleaners
- Upholstery Cleaners
- Window/Glass Cleaners
- Wood Cleaners
- Other Industrial/Institutional Products
Sustainable Purchasing 101/102

Reference Standards

EPA Comprehensive Procurement Guidelines (CPF)

EPA National Emission Standards for Hazardous Air Pollutants (NESHAP)

EPA Significant New Alternatives Policy (SNAP)
Comprehensive Procurement Guidelines

The Comprehensive Procurement Guideline (CPG) program is part of EPA's continuing effort to promote the use of materials recovered from solid waste. Buying recycled-content products ensures that the materials collected in recycling programs will be used again in the manufacture of new products.

CPG Resources:
- About CPG/RMAN - describes the CPG program at a high level, and includes a Glossary and Frequent Questions about the program.
- Background - provides regulatory information about the CPG / RMAN process, including the first 5 CPG/RMAN Updates.
- Products - details the 8 CPG product categories, including all the specific products available, and provides 8 overview Product Resource Guides and a mechanism to suggest a product.
- Product Supplier Directory - is an online, searchable database of available suppliers of products in the 8 CPG categories.

The CPG program is authorized by Congress under Section 6002 (PDF) (6 pp, 31 K, about PDF) of the Resource Conservation and Recovery Act (RCRA) and Executive Order 13423 (PDF) (7 pp, 103 K, about PDF). EPA is required to designate products that are or can be made with recovered materials, and to recommend practices for buying these products. Once a product is designated, procuring agencies are required to purchase it with the highest recovered material content level practicable.


EPA also issues guidance on buying recycled-content products in Recovered Materials Advisory Notices (RMANs). The RMANs recommend recycled-content ranges for CPG products based on current information on commercially available recycled-content products. RMAN levels are updated as marketplace conditions change.
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EPA Comprehensive Procurement Guidelines (CPG)
Product Categories Covered

Product Resource Guides

EPA’s Comprehensive Procurement Guideline (CPG) program helps agencies "close the loop" by buying recycled products. EPA published a series of product resource guides summarizing information on the CPG program; EPA's recovered materials content recommendations; case studies from around the country; and key resources, associations, and Web sites.

There are 8 product resource guides in all, one for each CPG product category.

- 2007 Buy-Recycled Series: Construction Products (PDF) (9 pp, 360K)
- 2007 Buy-Recycled Series: Landscaping Products (PDF) (7 pp, 404K)
- 2007 Buy-Recycled Series: Nonpaper Office Products (PDF) (6 pp, 316K)
- 2007 Buy-Recycled Series: Park and Recreation Products (PDF) (6 pp, 342K)
- 2007 Buy-Recycled Series: Transportation Products (PDF) (8 pp, 335K)
- 2007 Buy-Recycled Series: Vehicular Products (PDF) (8 pp, 455K)
- 2007 Buy-Recycled Series: Miscellaneous Products (PDF) (7 pp, 409K)
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EPA National Emission Standards for Hazardous Air Pollutants (NESHAP)

National Emission Standards for Hazardous Air Pollutants (NESHAPs) are stationary source standards for hazardous air pollutants. Hazardous air pollutants (HAPs) are those pollutants that are known or suspected to cause cancer or other serious health effects, such as reproductive effects or birth defects, or adverse environmental effects.

EPA develops national priorities that focus on significant environmental risks and noncompliance patterns. For Fiscal Years 2005 to 2007, the Clean Air Act Toxicology national priorities strategy focuses on categories of sources that emit HAPs.

NESHAPs are found in 40 CFR Parts 61 and 62. Part 61 NESHAP regulate only 7 hazardous air pollutants:

- Asbestos
- Beryllium
- Mercury
- Vinyl Chloride
- Benzo(a)pyrene
- Arsenic
- Radionuclides

The 1990 Clean Air Act Amendments significantly expanded EPA’s authority to regulate hazardous air pollutants. Section 112 of the Clean Air Act lists 187 hazardous air pollutants to be regulated by source category.

The NESHAPs were promulgated after the 1990 Clean Air Act Amendments are found in 40 CFR Part 62. These standards require application of technology-based emission standards referred to as Maximum Achievable Control Technology (MACT). Consequently, these post-1990 NESHAPs are also referred to as MACT standards. The NESHAPs are delegated to the states but both EPA and the states implement and enforce these standards.

Compliance Monitoring Program

EPA conducts inspections of facilities subject to the regulations to determine compliance. EPA inspections include:

- Reviewing reports and records
- Interviewing facility personnel knowledgeable of the facility
- Inspecting the processes that have emission points subject to the standard sampling wastewater discharges, if applicable
- Inspecting emission and work practice standards
- Reviewing leak detection and repair methods

See The Implementation Tool Miscellaneous Organic Chemical Manufacturing NESHAP and The Inspection Tool for the Miscellaneous Organic Chemical Manufacturing NESHAP for inspection protocols which have been developed for the Miscellaneous Organic Chemical Manufacturing NESHAP and the Miscellaneous Coating Manufacturing NESHAP, respectively.
National Emission Standards for Hazardous Air Pollutants (NESHAPs) are stationary source standards for hazardous air pollutants. Hazardous air pollutants (HAPs) are those pollutants that are known or suspected to cause cancer or other serious health effects, such as reproductive effects or birth defects, or adverse environmental effects.

NESHAPs are found in 40 CFR Part 61 and 40 CFR Part 63. Part 61 NESHAPs regulate only 7 hazardous air pollutants: Asbestos, Beryllium, Mercury, Vinyl chloride, Benzene, Arsenic, and Radon/radionuclides.

Part 63 NESHAPs lists 187 hazardous air pollutants to be regulated by source category.
Sustainable Purchasing 101/102

EPA Significant New Alternatives Policy (SNAP)

Significant New Alternatives Policy (SNAP) Program

The Significant New Alternatives Policy (SNAP) Program is EPA’s program to evaluate and regulate substitutes for the ozone-depleting chemicals that are being phased out under the stratospheric ozone protection provisions of the Clean Air Act (CAA).

In Section 612(a) of the Clean Air Act, the Agency is authorized to identify and publish lists of acceptable and unacceptable substitutes for class 1 or class 2 ozone-depleting substances.

The Administrator has determined a large number of alternatives exist that reduce overall risk to human health and the environment. The purpose of the program is to allow a safe, smooth transition away from ozone-depleting compounds by identifying substitutes that offer lower overall risks to human health and the environment.

The SNAP program has reviewed substitutes for the following industrial sectors:

- Refrigeration & Air Conditioning
- Foam Blowing Agents
- Cleaning Solvents
- Fire Suppression and Explosion Protection
- Adhesives
- Coatings & Inks
- Lubricants
- Pesticides
- Personal Care
- Paints & Coatings

EPA Home | Ozone Layer Protection | Alternatives / SNAP

BuyGreen
Maryland Green Purchasing Committee

Last updated on Thursday, January 16, 2013
The Significant New Alternatives Policy (SNAP) Program is EPA's program to evaluate and regulate substitutes for the ozone-depleting chemicals that are being phased out under the stratospheric ozone protection provisions of the Clean Air Act (CAA).

The SNAP program has reviewed substitutes for the following industrial sectors:

- Refrigeration & Air Conditioning
- Foam Blowing Agents
- Cleaning Solvents
- Fire Suppression and Explosion Protection
- Aerosols
- Sterilants
- Tobacco Expansion
- Adhesives, Coatings & Inks
Questions?

Anne Jackson, DGS
anne.jackson@dgs.state.md.us

Mike Haifley, MDOT
mhaifley@mdot.state.md.us