

# **U.S. Department of Energy**

## **Quarterly Teleconference on Implementing**

### **Environmentally Preferable Purchasing Requirements**

**July 23, 2009 11 a.m. - 12:30 p.m. (EDT)**

#### **TOPICS**

- DOE Site, Treasury, and USDA Discussion of Designated Biobased Products
- DOE High Performance Sustainable Buildings Update
- New Contract Language for Designated Products
- Cradle-to-Cradle Concepts in Relation to Purchasing

#### **MINUTES**

**Welcome** – Don Lentzen (DOE-HQ Environmentally Preferable Purchasing Program Lead)

#### **Congratulations to DOE EStar and FEC Award Winners – Don Lentzen**

Don Lentzen briefly described the DOE EStar Awards, which were recognized as part of the Earth Day festivities, in which Secretary Chu participated, and as part of the June 19<sup>th</sup> symposium. The EStar Awards recognize environmental sustainability projects and programs that reduce environmental impacts, enhance site operations, and reduce costs. Eight initiatives were selected to receive EStar Awards:

- East Tennessee Technology Park (ETTP) – pollution prevention and waste minimization in the information technology (IT) organization
- Fernald Preserve – platinum level LEED certification of the Fernald Preserve Visitor Center
- Los Alamos National Laboratory (LANL) – using LANL's EMS to direct meaningful institutional improvements
- Pacific Northwest National Laboratory (PNNL) – incorporated sustainable design principles into policies and procedures for new construction
- Sandia National Laboratories (SNL NM) – implemented pollution prevention in demolition and deconstruction projects
- Y-12 National Security Complex - three awards for 1) greening transportation, 2) incorporating pollution prevention into manufacturing activities, 3) reuse through donation of historic railway items to Southern Appalachia Railway System

Three initiatives were selected for EStar Honorable Mentions:

- Brookhaven National Laboratory (BNL) – improved efficiency at sewage treatment plant
- Savannah River Site (SRS) – two honorable mentions for 1) new gasket removal and replacement tool and 2) new biomass steam plant

The Federal Electronics Challenge encourages facilities and agencies to purchase greener electronic products, to reduce the impact of electronic devices during use, and to manage obsolete electronics in an environmentally safe manner. Several DOE sites received FEC awards in 2009. Two sites received gold-level awards: DOE Headquarters and the National Renewable Energy Laboratory. Silver-level awards went to the following sites: Brookhaven National Laboratory, Idaho National Laboratory, Paducah Site, Portsmouth Site, and Strategic Petroleum Reserve. DOE sites that received bronze-level awards were the following: Fermi National Accelerator Laboratory, Idaho Cleanup Project, Sandia National Laboratories, SLAC National Accelerator Laboratory, and Y-12 National Security Complex,.

### **DOE Site Discussion: Success at Finding and Using 47 Biobased Products We Are Required to Give Preference to and Report on in FY2009 – All DOE Sites**

- For proposed and final USDA regulations, link to <http://www.biopreferred.gov/ProposedAndFinalRegulations.aspx>
- For USDA BioPreferred catalog, link to <http://www.biopreferred.gov/Catalog.aspx>
- For DOE tool to use with vendors to identify designated biobased products they carry, link to <http://www.hss.doe.gov/pp/drivers/epp-specs-bio-vendor-rev2.doc>
- Other potential tools:
  - Excel file tracking tool for designated biobased products (see 09-BiobasedTrackingForm-DRAFT.xls) – Don Lentzen

Don Lentzen asked everyone to please review the tracking tool and provide comments and suggestions on how it could be more useful by July 31<sup>st</sup>. For example, should the list be extended to include recycled materials as well?

- Biobased product web location where sites share brands and contact information for the products they are purchasing – Sandra Cannon (DOE EPP Technical Support)  
Link to <http://www.hss.doe.gov/pp/epp/success.html>

Sandra Cannon asked that sites send success stories for posting on the DOE EPP website. The purpose of the stories is to expand upon the U.S. Department of Agriculture (USDA) catalog. The USDA catalog provides manufacturer information. The DOE success stories offer information on performance of the products. These should be incorporated into the regular reporting cycle and submitted to Sandra Cannon and Don Lentzen via email for inclusion in the website.

These success stories are not endorsements but sharing of information on which environmentally preferable products DOE sites have experience with. If any sites

have links or additional EPP information that they would like to share, these can be added to DOE's website too.

Ron Buckhalt (USDA) suggested talking about the website further offline to explore the possibility of linking to it as a resource for other federal agencies.

Following are the designated biobased products with notes on those DOE sites are using.

\* = May overlap with recycled content requirements. Recycled content requirements have precedence.

*Italics = Reminder of other designated biobased products we hope sites, in addition to those denoted, will discuss during the teleconference*

### **CLEANERS/SOLVENTS**

- **Adhesive and mastic removers – 58%**

Joshua Gallegos (SNL-NM)

BEAN-e-doo, Franmar's (<http://www.franmar.com/index.php>)

Sandia National Laboratories in New Mexico (SNL-NM) has been using BEAN-e-doo since 2001 for floor tile removal. The product is odorless and has a higher flashpoint than a previous product. The only odor detected is from the reliquification of the original mastic.

- **Bath and spa cleaners – 74%**

Margaret King (PPPL) – (Tom McGeachen spoke as Margaret King was unable to be on the call)

128 HydroxiPro Concentrate: 100% biobased used for Glass Cleaning, General Purpose Cleaning, Restroom Sanitizing, Shower Cleaning and Mopping Floors – 100%

Clean Healthy Products (<http://www.cleaningpro.com/page.cfm>)

See attached file (epp-clean-PPPL.xls)

This product replaces window cleaner and various other surface cleaners. Prior to using this product, PPPL was recycling 163 bottles, 357 1-gallon containers, and 100+ cardboard boxes. With this product substitution, PPPL has reduced the amount of waste generated from cleaning product containers to 70 1-gallon containers and 18 cardboard boxes. Laboratory personnel seem satisfied with the cleaning ability of the new product as well.

- *Carpet and upholstery cleaners*
  - *General purpose cleaners – 54%*
  - *Spot removers – 7%*
- *Floor strippers – 78%*
- *Glass cleaners – 49%*

- **Graffiti and grease removers – 34%**

Margaret King (PPPL)

A-Ben-A0Qui graffiti remover - 92% biobased

Clean Healthy Products (<http://www.cleaningpro.com/page.cfm>)

- Hand cleaners and sanitizers

- **Hand cleaners – 64%**

Margaret King (PPPL) – (Tom McGeachen spoke)

Foaming Hand Soap – 70%

Clean Healthy Products (<http://www.cleaningpro.com/page.cfm>)

Product performs well and contains aloe, which reduces excessive dryness that may occur in winter months. In addition to Clean Healthy Products, someone also indicated that MultiFacet Inc., who supplies janitorial products to one of the sites, has also been helpful in locating EPP cleaning products.

- **Sanitizers – 73%**

Margaret King (PPPL)

Avant Instant Foaming Hand Sanitizer – 78%

Clean Healthy Products (<http://www.cleaningpro.com/page.cfm>)

Botanical Disinfectant – 100%

Clean Healthy Products (<http://www.cleaningpro.com/page.cfm>)

- *Laundry products*

- *General purpose laundry – 34%*

- *Pretreatment/spot removers – 46%*

## **CONSTRUCTION**

- *\*Carpets - 7%*

- *\*Insulating foam (plastic) for residential and commercial construction – 7%*

- *\*Panels - composite panels*

- *Acoustical composite panels – 37%*

- *Interior panels – 55%*

- *Plastic lumber composite panels – 23%*

- *Structural interior panels – 89%*

- *Structural wall panels – 94%*

- *Release fluids - concrete and asphalt – 87%*

- *Roof coating – 20%*

- *Water tank coating – 59%*

## **DISHWARE**

- *Cutlery - disposable – 48%*

- *\*Disposable containers – 72%*

## **LUBRICANTS**

- *2-cycle engine oils – 34%*

- *Firearm lubricants – 49%*
- *Greases*
  - *Food grade -42%*
  - *Multi-purpose – 72%*
  - *Rail track – 30%*
  - *Truck – 71%*
  - *Unspecified – 75%*
- **\*Hydraulic fluids – mobile and stationary equipment – 44%**  
 Tom McGeachen (PPPL)  
 Mobil EAL 224H  
[http://www.mobil.com/USAEnglish/Lubes/PDS/GLXXENINDMOMobil\\_EAL\\_224\\_H.asp#FeaturesAdvantageBenefitsTitle](http://www.mobil.com/USAEnglish/Lubes/PDS/GLXXENINDMOMobil_EAL_224_H.asp#FeaturesAdvantageBenefitsTitle)

The Princeton Plasma Physics Laboratory (PPPL) has a hydraulic entrance gate. The hydraulic fluid was shipped with the gate. They had a leak which had to be cleaned up but avoided the cost of disposing as a hazardous waste so extra cost of hydraulic fluid is beginning to pay for itself.

Joshua Gallegos (SNL-NM)  
 Mobile and stationary in vacuum pumps, Renewable Lubricants- (<http://renewablelube.com/>)

SNL-NM is using biobased hydraulic fluid in their trash trucks and fork lifts. The initial biobased hydraulic fluid used (BioSoy) caused problems with the seals but Renewable Lubricants BioTrans has no issues and lasts four times as long as the petro based hydraulic fluid.

- **Metalworking fluids—straight oils**
  - Straight oils – 66%
  - General purpose soluble, semi-synthetic, synthetic – 57%
  - High performance soluble, semi-synthetic, synthetic (**delayed preference compliance date**) – 40%

Tom McGeachen (PPPL)  
 Accu-Lube (<http://www.itwfpg.com/acculube/acculube.html>)  
 Natural Based Lubricants (<http://www.itwfpg.com/acculube/lubricants.html>)  
 Patented micro-lubrication systems (<http://www.itwfpg.com/acculube/applicators.html>)

These lubricants have been implemented at all machine shops at PPPL and relieve the Lab of the expense of disposing of rags because rags soaked in biobased lubricant can be laundered and reused.

- **Penetrating lubricant – 68%**  
Joshua Gallegos (SNL-NM)  
Renewable Lubricants (<http://renewablelube.com/>)

Fleet Services at SNL-NM replaced existing lubricants, such as WD40, with biobased lubricants, which eliminated using aerosol cans. The extra cost of the biobased penetrating lubricant is offset by the penetrating lubricant lasting longer than WD40 and not having to pay for hazardous waste disposal.

## **SEALANTS**

- *Wood and concrete sealers*
  - *Membrane concrete sealers – 11%*
  - *Penetrating liquid sealers – 79%*

## **OTHER**

- *Bed linens and towels – 12%*
- *De-icers - general purpose de-icers – 93%*
- *Diesel fuel addition – 90%*
- *Dust suppressants – 85%*
- *\*Fertilizers - 71%*
- *Films*
  - *Non-durable – 85%*
  - *\*Semi-durable (plastic bags) – 45%*

- **Fluid filled transformers**  
Susan Michaud (ORNL) – Don Lentzen filling in for Susan  
Envirotemp FR 3 Fluid (<http://www.cooperpower.com/products/dielectric/envirotempFR3/>)  
See attached file (epp-TransformerFluids-ORNL.ppt)

This is a natural ester-based fluid formulated from seeds that replaced 1200 gallons of petroleum-based oil in three Fusion Energy Division (FED) transformers. The initial cost of the biobased oil was about three times more than the petroleum oil. However, as the biobased oil has a higher flashpoint than the petroleum oil, the fluid replacement eliminated the need to upgrade the fire sprinkler system. This new FR 3 Fluid should not need to be replaced unless it becomes contaminated.

- Synthetic esterbased transformer fluids (delayed preference compliance date) – 66%
- Vegetable oil-based transformer fluids – 95%
- *Lip care products – 82%*
- *\*Sorbents – 89% (proposed 52%)*

## **USDA Biobased Products Update – Ron Buckhalt (USDA) –**

Link to [www.usda.gov/biopreferred](http://www.usda.gov/biopreferred)

Link to *Federal Register Notice* of Biobased Labeling at

<http://edocket.access.gpo.gov/2009/pdf/E9-17610.pdf>

The Federal Register will be publishing the consumer labeling rule within the next week or two. [Published July 31, 2009 (<http://edocket.access.gpo.gov/2009/pdf/E9-17610.pdf>).] The proposed label denotes a minimum of 51% of biobased content in products for use by the general consumer and the specified percent content for those products designated for preference by Federal agencies. The proposed label would identify whether the product is designated for preference by Federal agencies. USDA hopes to expedite the labeling process, but further clarification of the rule will be needed.

Under the proposed rule, manufacturers must submit information that the biobased content was verified by a third-party certifier that is ISO 9001 conformant (as opposed to “certified”). USDA will be auditing, and the Federal Trade Commission will step in if any claims are unsubstantiated.

## **US Department of Treasury Janitorial and Food Service Contracts for Biobased Products - Jean Carter (Treasury)**

The Department of Treasury has ten procurement operations offices. The office that provides contracting support to Headquarters Operations is working with the U.S. Department of Agriculture (USDA) BioPreferred Program Office to green an existing contract for food services and to include biobased requirements in its solicitation for janitorial services.

The food services contract is with Sodexo. With help from USDA, Treasury is making the food services contract greener, focusing on disposable cutlery and containers with biobased content, which makes the cutlery and containers more biodegradable.

This is the last contract year under the current janitorial services contract. New contract language has been developed with the help of USDA's templates to include biobased requirements in the solicitation (see “Contract Templates” at

[http://www.biopreferred.gov/Training\\_Tools.aspx](http://www.biopreferred.gov/Training_Tools.aspx)).

## **High Performance Sustainable Buildings Update – Ivan Graff (DOE-HQ HPSB)**

Link to <http://www1.eere.energy.gov/team/hpsb.html>

Link to [http://www1.eere.energy.gov/team/hpsb\\_technical\\_guidance.html](http://www1.eere.energy.gov/team/hpsb_technical_guidance.html)

Sites should be conducting sustainability assessments now on their building inventory. The requirement to Assess Buildings is in Executive Order 13423 and the reporting is discussed on pages 1-3 of the guidance ([http://www.wbdg.org/pdfs/hpsb\\_guidance.pdf](http://www.wbdg.org/pdfs/hpsb_guidance.pdf)).

All agencies must report their assessments in FY 2009. At DOE, we are reporting through the Facilities Information Management System (FIMS).

The Office of Environmental Management has made progress using a proprietary tool from LMI (see

[http://www.em.doe.gov/EM20Pages/PDFs/EM\\_AssessmentTool\\_June11webinar\\_28M.pdf](http://www.em.doe.gov/EM20Pages/PDFs/EM_AssessmentTool_June11webinar_28M.pdf)). The Sustainable Building Assessment and Compliance Tool (SBAT) is available online to assist sites in assessing buildings. The FEMP Existing Building Assessment Tool ([http://www1.eere.energy.gov/femp/docs/doe\\_hpsb\\_eb.xls](http://www1.eere.energy.gov/femp/docs/doe_hpsb_eb.xls)) helps determine if an existing building or real property trailer meets all of the guiding principles.

The Federal Energy Management Program (FEMP) will be preparing a webinar for using the tool. FEMP also has limited funding for technical assistance.

Jim Wise (Richland Operations Office) asked about the applicability of the HPSB requirements and tools to trailers or mobile buildings. Ivan Graff responded that where trailers are deemed real property, sites should be able to use existing building tools to evaluate trailers.

**DOE Contract Language for EPP and Acquisition Letter** – Richard Langston (DOE) For language for Architecture Engineer, Construction, Janitorial Services, Computers, and Service contracts link to

<http://www.management.energy.gov/documents/Flash2009-49Attachment.pdf>

Green purchasing clauses in contracts are typically in Section H, which is not normally read. To improve visibility, “H” clauses were developed to be placed in the scope of work section, which is always read. The above link provides the template language for architect and engineer contracts, construction contracts, janitorial service contracts, personal computer contracts, and general service contracts.

For awards using ARRA (Stimulus) funds, DOE has developed a green acquisition letter (<http://management.energy.gov/documents/AL2009-08.pdf>), which summarizes requirements for contractors within DOE Orders 430.2B and 450.1A to give preference to the designated biobased and recycled content products. Compliance with the acquisition letter to establish “green” processes and supply chains will be managed through the EMS as required by DOE Order 450.1a.

Tom Ferns (Richland Operations Office) asked whether it was his or the contracting officer’s responsibility to ensure these clauses are included. Richard said both are responsible, and he will share these template clauses with the RL contracting officer.



**Cradle to Cradle Concepts in Relation to Purchasing** – Ralph Wrons (Sandia National Labs NM)

Link to <http://www.mbdc.com/c2c/index.php>

“Cradle to Cradle” or C2C is a concept that just as nutrients cycle in natural systems, human made materials can also be considered nutrients that cycle in healthy, safe industrial metabolisms. In this way, all materials used in industrial or commercial processes can be categorized as either technical or biological nutrients. The challenge of C2C is to redesign the way products are made.

A C2C approach would limit technical nutrients to non-toxic, non-harmful synthetic materials that can be used in continuous cycles without losing their integrity or quality and do not negatively impact the environment. The goal is for these materials to be used over and over again instead of being "downcycled" into lesser products and eventually becoming waste.

Biological nutrients according to C2C are organic materials that after use can be disposed of safely in the environment and would decompose providing nutrients in the biogeochemical cycle without negatively affecting the environment.

Sandia National Laboratories New Mexico has the goal of zero waste to landfill by 2025. This is aligned with Albuquerque's goal of zero waste to landfill by 2030. SNL believes that 75-85% of this goal can be met through recycling and reuse with the remaining to be met through EPP.

McDonough Braungart Design Chemistry (MBDC) has a C2C certification program. It is similar to other certification programs with the exception that it also looks at chemicals, water use, and energy use in products. It is important to realize that C2C certification does not mean that a product embraces the C2C concept. C2C certification tracks the improvement of products toward the C2C goal.

Hundreds of products have been evaluated to date. Of interest for DOE sites is Shaw carpet and Steelcase chairs seem to be moving in the direction of C2C. [Side note from DOE-HQ: In the name of embracing C2C, Shaw carpet has removed biobased content from its carpet backing and has been reticent to verify the recycled content.]

If you incorporate C2C into contracts, this does not lock you into a single product. A complete list of products can be found at <http://www.mbdc.com/c2c/list.php?order=type>. C2C does not align with the designated product specifications required of Federal agencies but it does not preclude them.

Tom McGeachen (PPPL) is moving away from petroleum by, for instance, specifying Steelcase C2C office furniture. PPPL finds the price to be comparable to other office furniture prices. Herman Miller also has several pieces of office furniture C2C certified.

Ralph Wrons notes Interface is planning to sell carpet service instead of carpets as a product. Caterpillar is taking back all equipment to refurbish.

### **Concluding Comment**

Don Lentzen said he had recently toured the solar panel manufacturing operation with Prison Industries (UNICOR). The panels are a potential source for DOE site systems. UNICOR can help with design and finances. More information can be found at <http://www.unicor.gov/information/publications/pdfs/electronics/CATME1000.pdf>.

### **Next teleconference**

- Date – October 22, 2009
- Potential topics for the next teleconference. Please share your ideas. Some suggested so far are
  - Price comparisons
  - Recycled content signs, retread tires, re-refined oil
  - Energy/water efficient products
  - Construction Materials: Insulation, paint, roofing sealant, water free urinals
  - Other?

## **RESOURCE MATERIALS AND UPDATED EPP INFORMATION**

### **NEWLY DESIGNATED RECYCLED PRODUCT AND NEW DEFINITION**

**Begin Purchasing and Collecting Purchasing Data by September 15, 2008**

- Fertilizer
- Compost (new definition)

Web Info: <http://www.epa.gov/epaoswer/non-hw/procure/products.htm>

### **NEWLY DESIGNATED BIOBASED PRODUCTS**

**Begin Purchasing and Collecting Purchasing Data by May 14, 2009 except where denoted**

#### **CLEANERS/SOLVENTS**

- Adhesive and mastic removers – 58%
- Bath and spa cleaners – 74%
- Carpet and upholstery cleaners
  - General purpose cleaners – 54%
  - Spot removers – 7%
- Floor strippers – 78%
- Glass cleaners – 49%
- Graffiti and grease removers – 34%
- Hand cleaners and sanitizers
  - Hand cleaners – 64%
  - Sanitizers – 73%
- Laundry products

- General purpose laundry – 34%
- Pretreatment/spot removers – 46%

## **CONSTRUCTION**

- \*Carpets - 7%
- \*Insulating foam (plastic) for residential and commercial construction – 7%
- \*Panels - composite panels
  - Acoustical composite panels – 37%
  - Interior panels – 55%
  - Plastic lumber composite panels – 23%
  - Structural interior panels – 89%
  - Structural wall panels – 94%
- Release fluids - concrete and asphalt – 87%

## **DISHWARE**

- Cutlery - disposable – 48%
- \*Disposable containers – 72%

## **LUBRICANTS**

- 2-cycle engine oils – 34%
- Firearm lubricants – 49%
- Greases
  - Food grade -42%
  - Multi-purpose – 72%
  - Rail track – 30%
  - Truck – 71%
  - Unspecified – 75%
- Metalworking fluids—straight oils
  - Straight oils – 66%
  - General purpose soluble, semi-synthetic, synthetic – 57%
  - High performance soluble, semi-synthetic, synthetic (**delayed preference compliance date**) – 40%

## **SEALANTS**

- Wood and concrete sealers
  - Membrane concrete sealers – 11%
  - Penetrating liquid sealers – 79%

## **OTHER**

- De-icers - general purpose de-icers – 93%
- Dust suppressants – 85%
- \*Fertilizers - 71%
- Films
  - Non-durable – 85%
  - \*Semi-durable (plastic bags) – 45%
- Fluid filled transformers
  - Synthetic esterbased transformer fluids (**delayed preference compliance date**) – 66%

- Vegetable oil-based transformer fluids – 95%
- \*Hydraulic fluids - stationary equipment – 44%
- Lip care products – 82%
- \*Sorbents – 89% (proposed 52%)

**Begin Purchasing and Collecting Purchasing Data by March 16, 2007 except where denoted**

- Lubricants, penetrating – 68% biobased content by weight
- Diesel fuel additives – 90%
- Urethane roof coating/sealant – 20%
- Hydraulic fluids for mobile equipment (tractors, etc.) – 44%
- Bedding, bed linens, towels (**November 20, 2007 preference compliance date**) – 12%
- Water tank coating/sealant (**November 20, 2007 preference compliance date**) – 59%

\* May overlap with recycled content requirements. Recycled content requirements have precedence.

Regulations: <http://www.biopreferred.gov/ProposedAndFinalRegulations.aspx>

**SOURCES OF INFORMATION**

**DOE's "Environmentally Preferable Products Program" website for access to the reporting site, annual report, teleconference agenda and minutes, and sources of helpful information**

U.S. Department of Energy's RCRA 6002/Executive Order 13423 home page  
<http://www.hss.doe.gov/pp/epp/>

**Environmentally Preferable Purchasing Executive Orders, Regulations, Guidelines**

Office of the Federal Environmental Executive  
[www.ofee.gov](http://www.ofee.gov)

**Buying Green**

FedCenter  
<http://www.fedcenter.gov/programs/buygreen/>

**GENERAL PRODUCT INFORMATION**

**Environmentally Preferable Products**

U.S. Environmental Protection Agency  
<http://yosemite1.epa.gov/oppt/epstand2.nsf>

**Environmentally Preferable Products**

U.S. Department of Energy  
<http://www.hss.doe.gov/pp/epp/>

**Alternative Fuels and Vehicles**

U.S. Department of Energy

<http://www.eere.energy.gov/vehiclesandfuels/epact/federal/>

### **Biobased Products**

U.S. Department of Agriculture

<http://www.biopreferred.gov/?SMSESSION=NO>

### **Construction**

Whole Building Design Guide -- Technical Guidance for Implementing the Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings Memorandum of Understanding

<http://www.wbdg.org/sustainablemou>

The Federal Green Construction Guide for Specifiers with more than 60 model green construction spec sections

<http://fedgreenspecs.wbdg.org>

### **Energy/Water Efficient Products**

Federal Energy Management Program

<http://www.eere.energy.gov/femp/procurement/>

### **Recycled Products and Suppliers**

U.S. Environmental Protection Agency Comprehensive Procurement Guidelines

<http://www.epa.gov/epaoswer/non-hw/procure/index.htm>

### **Materials Exchange Products**

(especially chemicals, equipment, and hazardous materials) at other DOE facilities

Log on with user name (erhquser) and password (erhqdoe)

DOE Complex Wide Materials Exchange

<http://wastenot.er.doe.gov/me/login.aspx>

### **Substitutes for Ozone-Depleting Products**

U.S. Environmental Protection Agency

<http://www.epa.gov/ozone/snap/lists/index.html>

## **SPECIFIC PRODUCT CATEGORIES**

### **Carpet**

#### **Contract Language and Standards/Guidelines**

U.S. Environmental Protection Agency

Select "carpet" at <http://yosemite.epa.gov/oppt/eppstand2.nsf/Pages/Search.html?Open>

#### **California Carpet Standard**

<http://www.documents.dgs.ca.gov/green/epp/standards.pdf>

## **Recycled Content Specifications and Suppliers**

U.S. Environmental Protection Agency

<http://www.epa.gov/epaoswer/non-hw/procure/products/carpet.htm>

## **Suppliers Meeting California Carpet Standard**

<http://www.green.ca.gov/EPP/carpets.htm>

## **Cement/Concrete**

### **Recycled Content Specifications and Suppliers**

U.S. Environmental Protection Agency

<http://www.epa.gov/epaoswer/non-hw/procure/products/cement.htm>

## **Cleaning Products**

### **Contract Language and Standards/Guidelines**

U.S. Environmental Protection Agency

Select “cleaning supplies” at

<http://yosemite.epa.gov/oppt/epstand2.nsf/Pages/Search.html?Open>

### **Suppliers**

EcoLogo CCD 104 Hand Cleaners – Industrial

[http://www.ecologo.org/en/seeourcriteria/details.asp?ccd\\_id=329](http://www.ecologo.org/en/seeourcriteria/details.asp?ccd_id=329)

EcoLogo CCD 110 Cleaning and Degreasing Compounds

[http://www.ecologo.org/en/seeourcriteria/details.asp?ccd\\_id=335](http://www.ecologo.org/en/seeourcriteria/details.asp?ccd_id=335)

EcoLogo CCD 115 Odor Control Additives

[http://www.ecologo.org/en/seeourcriteria/details.asp?ccd\\_id=340](http://www.ecologo.org/en/seeourcriteria/details.asp?ccd_id=340)

EcoLogo CCD-146 Hard Surface Cleaners

[http://www.ecologo.org/en/seeourcriteria/details.asp?ccd\\_id=371](http://www.ecologo.org/en/seeourcriteria/details.asp?ccd_id=371)

EcoLogo CCD-147 Floor Care Products

[http://www.ecologo.org/en/seeourcriteria/details.asp?ccd\\_id=372](http://www.ecologo.org/en/seeourcriteria/details.asp?ccd_id=372)

EcoLogo CCD 148 Carpet and Upholstery Cleaners

[http://www.ecologo.org/en/seeourcriteria/details.asp?ccd\\_id=373](http://www.ecologo.org/en/seeourcriteria/details.asp?ccd_id=373)

EcoLogo CCD 166 Disinfectants and Disinfectant Cleaners

[http://www.ecologo.org/en/seeourcriteria/details.asp?ccd\\_id=391](http://www.ecologo.org/en/seeourcriteria/details.asp?ccd_id=391)

Green Seal GS-37 Industrial and Institutional Cleaners

<http://www.greenseal.org/findaproduct/index.cfm#cleaners>

## **Construction Materials and Products**

### **Contract Language**

U.S. Department of Energy

<http://www.hss.doe.gov/pp/epp/epspecs.html> , see “Construction Services”

## **Paint**

### **Recycled Content Specifications and Suppliers**

U.S. Environmental Protection Agency

<http://www.epa.gov/epaoswer/non-hw/procure/products/paint.htm>

### **Suppliers**

EcoLogo CCD-47 Surface Coatings (Paints, Stains, and Varnishes)

[http://www.ecologo.org/en/seeourcriteria/details.asp?ccd\\_id=272](http://www.ecologo.org/en/seeourcriteria/details.asp?ccd_id=272)

EcoLogo CCD-48 Surface Coatings (Recycled)

[http://www.ecologo.org/en/seeourcriteria/details.asp?ccd\\_id=273](http://www.ecologo.org/en/seeourcriteria/details.asp?ccd_id=273)

Green Seal GS-43 Recycled Content Latex Paint

[http://www.greenseal.org/newsroom/GS-43\\_Recycled\\_Content\\_Latex\\_Paint.pdf](http://www.greenseal.org/newsroom/GS-43_Recycled_Content_Latex_Paint.pdf)

## **Toner Cartridges**

### **Recycled Content Specifications and Suppliers**

EcoLogo CCD-039 Printing Cartridges Remanufactured

[http://www.ecologo.org/en/seeourcriteria/details.asp?ccd\\_id=264](http://www.ecologo.org/en/seeourcriteria/details.asp?ccd_id=264)

U.S. Environmental Protection Agency

<http://www.epa.gov/epaoswer/non-hw/procure/products/toner.htm>

## **DOWNLOAD AND RUN BEES 4.0 SOFTWARE**

BEES (Building for Environmental and Economic Sustainability) software helps designers, builders, and product manufacturers identify the environmental and economic performance of construction materials. Developed by NIST (National Institute of Standards and Technology) Green Buildings Program with support from the U.S. Environmental Protection Agency Environmentally Preferable Purchasing Program and the HUD Partnership for Advancing Technology in Housing (PATH) the tool is based on consensus standards and designed to be practical, flexible, and transparent.

**Register for software at <http://www.bfrl.nist.gov/oae/software/bees/registration.html> (no cost involved):**

- Fill out registration form
- Click submit

### **To install BEES 4.0:**

- Download bees30dzip.exe, a 14.6 MB self-extracting file. (If prompted during the download, choose to save the file).

- From Windows Explorer, double click on bees30dzip.exe to start the self- extraction process.
- When prompted, choose a folder to unzip the file to and click Unzip.
- Using Windows Explorer, go to the folder you specified in Step 3, double click on Setup.exe and follow the directions on the screen. You will need to choose a folder in which to install BEES 3.0d. This folder must be different from the one you specified in Step 3.

**To run BEES 4.0:**

- Select Start->Programs->BEES->BEES 4.0

**OR**

- Go to “My Computer” or wherever you can see all folders and files on your computer. Do not try to open the BEES exe file from a software application, such as Word.
- Go to where you stored the BEES files (probably in a folder labeled “BEES”)
- Open the BEES30d.exe file
- Go to “Analysis” at top of window
- Go to “Define Parameters”