



**Department of Energy**  
Washington, DC 20585

March 15, 2006

Mr. Edwin Pinero  
Federal Environmental Executive  
Office of the Federal Environmental Executive  
Washington, DC 20460

Dear Mr. Pinero:

The Department of Energy (DOE) is pleased to transmit the enclosed report in fulfillment of the annual reporting requirements under Executive Order 13101, *Greening the Government through Waste Prevention, Recycling, and Federal Acquisition*. The report was prepared in accordance with the instruction provided in your letter October 13, 2005, to Agency Environmental Executives and Agency Senior Procurement Executives, regarding Implementation of the Resource Conservation and Recovery Act Section 6002.

DOE's report contains the specific purchasing data that you requested on the eight (8) indicator items identified as Environmental Protection Agency-designated products with recovered content. Additionally, the report provides information on DOE's performance on solid waste recycling, environmentally preferable purchasing, and affirmative procurement training and auditing.

I have also sent a copy of this report to Mr. Robert Burton of the Office of Management and Budget under a separate cover. If you or your staff have questions or need more information, please contact Don Lentzen of my staff at (202) 586-7428 or Richard Langston of the Office of Procurement and Assistance Management at (202) 287-1339.

Sincerely,

A handwritten signature in black ink, appearing to read "C. Russell H. Shearer".

C. Russell H. Shearer  
Acting Assistant Secretary  
Environment, Safety and Health

Enclosure

cc: D. Arnold, Office of the Federal Environmental Executive  
M. Fischetti, DOE (MA-61)



**Department of Energy**  
Washington, DC 20585

March 15, 2006

Mr. Robert A. Burton  
Associate Administrator  
Office of Federal Procurement Policy  
Office of Management and Budget  
Washington, DC 20503

Dear Mr. Burton:

The Department of Energy (DOE) is pleased to transmit the enclosed report in fulfillment of the annual reporting requirements under Executive Order 13101, *Greening the Government through Waste Prevention, Recycling, and Federal Acquisition*. The report was prepared in accordance with the instruction provided in your letter October 13, 2005, to Agency Environmental Executives and Agency Senior Procurement Executives, regarding Implementation of the Resource Conservation and Recovery Act Section 6002.

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cc: C. Vallina, Office of Management and Budget  
M. Fischetti, DOE (MA-61)

**U.S. DEPARTMENT OF ENERGY  
AFFIRMATIVE PROCUREMENT  
AND RECYCLING  
FISCAL YEAR 2005 REPORT**



*pursuant to:*

**Resource Conservation and Recovery Act  
§6002 “Federal Procurement”  
and**

**Executive Order 13101 “Greening the Government through  
Waste Prevention, Recycling, and Federal Acquisition”**

**March 2006**

## **FORWARD**

This report has been prepared in response to the October 13, 2005, letter from the Office of Management and Budget (OMB) and the Office of the Federal Environmental Executive (OFEE) to Federal Agency Environmental Executives and Agency Senior Procurement Officials. This letter transmitted a survey for reporting on agency purchases of recycled content products pursuant to Resource Conservation and Recovery Act, Section 6002 and Executive Order 13101, *Greening the Government through Waste Prevention, Recycling, and Federal Acquisition*.

Responsive to the OMB/OFEE letter, this report contains the following:

- An Executive Summary;
- A table summarizing the Department of Energy's (DOE) Fiscal Year 2005 purchases of Environmental Protection Agency-designated recovered content products (i.e., products containing recycled materials); and
- A completed survey on DOE purchases in Fiscal Year 2005, and supplemental information on environmentally preferable purchasing and solid waste recycling.

## EXECUTIVE SUMMARY

- This report summarizes the Department of Energy (DOE) Fiscal Year (FY) 2005 purchases of Environmental Protection Agency (EPA)-designated products that were obtained from non-Federal sources. DOE purchases from Federal sources of supply, such as the General Services Administration, Government Printing Office, and the Defense Logistics Agency are reported separately by those agencies.
- Table 1 summarizes DOE purchases of EPA-designated products with recovered content (i.e., containing recycled materials) for FY 2005. The purchase data are summarized in two ways:
  - Purchases of EPA-designated items containing recycled materials are compared to total purchases of these items. This yields percentages that reflect the overall effect of DOE purchasing on the “recovered content” marketplace.
  - A comparison of purchase data adjusted for allowable exceptions authorized by Federal Acquisition Regulation 23.405(c), where EPA-designated recovered content items could not be purchased due to cost, performance, or availability considerations. This yields percentages that reflect the overall performance of the Department’s Affirmative Procurement Program (also referred to as Environmentally Preferable Purchasing).
- In FY 2005, 66% of all DOE purchases in EPA-designated product categories contained recycled material. When adjusted for virgin-content products purchased due to product availability, cost viability, and product performance considerations, 90% of all DOE purchases of EPA-designated products qualified as environmentally preferable purchases (see Table 1).
- The Department’s purchasing power continues to play an important role in DOE’s commitment to environmental sustainability and waste prevention. In FY 2005, DOE purchases of products containing recycled material exceeded \$32 million. Over the same period, the Department also recycled 32% of the solid wastes (non-radioactive/non-hazardous) generated by its production, analytical, and research and development activities across the country.

**Table 1 – FY 2005 DOE Purchases of EPA-Designated Products**

<b>Product Category</b>	<b>Total Purchases</b>	<b>\$ with Recovered Content</b>	<b>% with Recovered Content</b>	<b>Adjusted Total*</b>	<b>Adjusted Performance**</b>
<b>Construction</b>	<b>\$9,180,068</b>	<b>\$6,909,565</b>	<b>75.3%</b>	<b>\$9,005,129</b>	<b>98.1%</b>
Building Insulation Products	\$770,576	\$740,156	96.1%	\$751,811	97.6%
Carpet	\$598,137	\$494,564	82.7%	\$584,096	97.7%
Carpet Cushion	\$160	\$160	100.0%	\$160	100.0%
Cement and Concrete	\$5,321,392	\$4,393,917	82.6%	\$5,228,253	98.2%
Consolidated and Reprocessed Latex Paint	\$538,607	\$53,181	9.9%	\$515,062	95.6%
Floor Tiles	\$326,813	\$283,026	86.6%	\$305,422	93.5%
Flowable Fill	\$16,228	\$16,228	100.0%	\$16,228	100.0%
Laminated Paperboard	\$5,422	\$3,969	73.2%	\$5,422	100.0%
Modular Threshold Ramps	\$9,133	\$2,319	25.4%	\$9,133	100.0%
Nonpressure Pipe	\$1,025,704	\$603,947	58.9%	\$1,025,704	100.0%
Patio Blocks	\$5,321	\$96	1.8%	\$5,321	100.0%
Railroad Grade Crossing Surfaces	\$0	\$0	NA	\$0	NA
Roofing Materials	\$482,914	\$264,516	54.8%	\$478,914	99.2%
Shower and Restroom Dividers/Partitions	\$50,793	\$27,225	53.6%	\$50,793	100.0%
Structural Fiberboard	\$28,868	\$26,259	91.0%	\$28,811	99.8%
<b>Landscaping</b>	<b>\$830,876</b>	<b>\$815,302</b>	<b>98.1%</b>	<b>\$829,812</b>	<b>99.9%</b>
Compost	\$960	\$960	100.0%	\$960	100.0%
Garden and soaker hoses	\$22,298	\$17,438	78.2%	\$21,446	96.2%
Hydraulic Mulch	\$757,007	\$756,737	100.0%	\$757,007	100.0%
Landscaping Timbers	\$15,834	\$15,834	100.0%	\$15,834	100.0%
Lawn and Garden Edging	\$34,776	\$24,333	70.0%	\$34,564	99.4%
<b>Non-Paper Office</b>	<b>\$19,563,431</b>	<b>\$11,348,457</b>	<b>58.0%</b>	<b>\$17,201,494</b>	<b>87.9%</b>
Binders	\$1,072,091	\$608,833	56.8%	\$867,503	80.9%
Office Furniture	\$7,500,624	\$6,690,095	89.2%	\$7,066,957	94.2%
Office Recycling Containers	\$51,304	\$46,481	90.6%	\$51,045	99.5%
Office Waste Receptacles	\$56,860	\$41,643	73.2%	\$48,284	84.9%
Plastic Clip Portfolios	\$9,044	\$4,040	44.7%	\$4,040	44.7%
Plastic Clipboards	\$3,539	\$866	24.5%	\$2,884	81.5%
Plastic Desktop Accessories	\$262,045	\$98,705	37.7%	\$209,204	79.8%
Plastic Envelopes	\$33,426	\$21,865	65.4%	\$24,956	74.7%
Plastic File Folders	\$39,023	\$24,351	62.4%	\$25,963	66.5%
Plastic Presentation Folders	\$19,146	\$12,764	66.7%	\$15,982	83.5%

<b>Product Category</b>	<b>Total Purchases</b>	<b>\$ with Recovered Content</b>	<b>% with Recovered Content</b>	<b>Adjusted Total*</b>	<b>Adjusted Performance**</b>
Plastic Trash Bags	\$1,106,444	\$763,217	69.0%	\$890,520	80.5%
Printer Ribbons	\$25,928	\$14,247	54.9%	\$25,003	96.4%
Solid Plastic Binders	\$18,886	\$11,367	60.2%	\$12,338	65.3%
Toner Cartridges	\$9,365,071	\$3,009,982	32.1%	\$7,956,814	85.0%
<b>Paper and Paper Products</b>	<b>\$12,475,902</b>	<b>\$9,743,632</b>	<b>78.1%</b>	<b>\$11,276,204</b>	<b>90.4%</b>
Bristols	\$986,905	\$717,296	72.7%	\$790,288	80.1%
Coated Printing Papers	\$839,935	\$505,864	60.2%	\$627,309	74.7%
Commercial/Industrial Sanitary Tissue	\$2,599,199	\$2,134,453	82.1%	\$2,335,213	89.8%
Miscellaneous Paper Products (Tray Liners)	\$428,525	\$215,915	50.4%	\$428,479	100.0%
Newsprint	\$741,986	\$735,084	99.1%	\$741,878	100.0%
Paperboard and Packaging Products	\$361,276	\$316,781	87.7%	\$345,294	95.6%
Uncoated Printing and Writing Papers	\$6,518,077	\$5,118,238	78.5%	\$6,007,743	92.2%
<b>Park and Recreation</b>	<b>\$103,162</b>	<b>\$32,000</b>	<b>31.0%</b>	<b>\$54,851</b>	<b>53.2%</b>
Park Benches and Picnic Tables Containing Recovered Aluminum, Steel, Concrete, or Plastic	\$28,231	\$18,031	63.9%	\$20,195	71.5%
Plastic Fencing	\$74,137	\$13,174	17.8%	\$33,862	45.7%
Playground Equipment Containing Recovered Plastic, Steel, or Aluminum	\$0	\$0	NA	\$0	NA
Playground Surfaces	\$0	\$0	NA	\$0	NA
Running Track	\$793	\$793	100.0%	\$793	100.0%
<b>Transportation</b>	<b>\$226,980</b>	<b>\$195,571</b>	<b>86.2%</b>	<b>\$200,171</b>	<b>88.2%</b>
Channelizers	\$0	\$0	NA	\$0	NA
Delineators	\$177,674	\$177,674	100.0%	\$177,674	100.0%
Flexible Delineators	\$3,989	\$3,152	79.0%	\$3,632	91.1%
Parking Stops	\$3,323	\$3,073	92.5%	\$3,073	92.5%
Traffic Barriers	\$28,566	\$1,896	6.6%	\$3,976	13.9%
Traffic Cones	\$13,429	\$9,777	72.8%	\$11,817	88.0%

<b>Product Category</b>	<b>Total Purchases</b>	<b>\$ with Recovered Content</b>	<b>% with Recovered Content</b>	<b>Adjusted Total*</b>	<b>Adjusted Performance**</b>
<b>Vehicular</b>	<b>\$2,807,225</b>	<b>\$358,094</b>	<b>12.8%</b>	<b>\$2,283,223</b>	<b>81.3%</b>
Re-refined Lubricating Oil	\$359,507	\$138,767	38.6%	\$236,840	65.9%
Rebuilt Vehicular Parts	\$1,097,508	\$101,529	9.3%	\$1,095,784	99.8%
Reclaimed Engine Coolants	\$48,875	\$21,564	44.1%	\$42,489	86.9%
Retread Tires	\$1,301,336	\$96,233	7.4%	\$908,112	69.8%
<b>Miscellaneous</b>	<b>\$3,746,362</b>	<b>\$2,739,425</b>	<b>73.1%</b>	<b>\$3,322,903</b>	<b>88.7%</b>
Awards and Plaques	\$77,574	\$55,274	71.3%	\$74,341	95.8%
Bike Racks	\$1,780	\$1,780	100.0%	\$1,780	100.0%
Blasting Grit	\$6,100	\$6,100	100.0%	\$6,100	100.0%
Industrial Drums	\$2,027,119	\$1,720,180	84.9%	\$2,001,840	98.8%
Manual-Grade Strapping	\$97,185	\$25,973	26.7%	\$40,043	41.2%
Mats	\$149,709	\$88,115	58.9%	\$120,462	80.5%
Pallets	\$233,788	\$22,106	9.5%	\$125,245	53.6%
Signages	\$500,335	\$279,579	55.9%	\$373,089	74.6%
Sorbents	\$652,772	\$540,319	82.8%	\$580,003	88.9%
<b>TOTALS:</b>	<b>\$48,934,006</b>	<b>\$32,142,046</b>	<b>65.7%</b>	<b>\$44,173,787</b>	<b>90.3%</b>

\* Adjusted total equals recovered content purchases plus justified exemptions (i.e., product availability, cost, and performance)

\*\* Adjusted performance equals adjusted total divided by total purchases.



Date Prepared: March 2006

**RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) §6002  
&  
EXECUTIVE ORDER 13101, *GREENING THE GOVERNMENT THROUGH  
WASTE PREVENTION, RECYCLING, AND FEDERAL ACQUISITION***

**Agency Report for Fiscal Year:** 2005

**Agency or Department:** United States Department of Energy

**Agency Contacts:** Donald Lentzen EH-43/ Richard Langston ME-61

**Contact Telephone Number:** (202) 586-7428/(202) 287-1339

**Contact E-Mail Address:** [donald.lentzen@eh.doe.gov](mailto:donald.lentzen@eh.doe.gov)/[richard.langston@hq.doe.gov](mailto:richard.langston@hq.doe.gov)

**1. Federal Procurement Data System (FPDS) Data**

Due to problems with the Federal Procurement Data System (FPDS), the Office of the Federal Environmental Executive directed Federal agencies not to complete this section. FPDS data will be compiled by GSA for Federal agencies and reported separately.

**2. Indicator Items for EPA-Designated Recycled Content Products**

**The General Services Administration and the Defense Logistics Agency will provide data for agency purchases directly from them. Please provide amounts for your agency's purchases from other sources, including GSA schedule contractors and your service contractors, including construction contractors, fleet maintenance contractors, and facilities maintenance contractors.**

The numbers in this report are the totals for DOE federal purchases plus purchases by management contractors who operate DOE sites.

**a) Paper: Commercial Sanitary Tissue Products**

- i) Does your Agency purchase this item (directly or through contracts)?  
**Yes X No \_\_\_** If no, skip to next section.
- ii) Total dollar amount<sup>1</sup> of these products purchased<sup>2</sup> by your Agency from sources *other than GSA* in FY 2005 **\$2,599,199**.
- iii) Dollar amount of these products containing recovered materials<sup>3</sup> purchased by your Agency from sources *other than GSA* in FY 2005

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<sup>1</sup> "Total amount" equals the amount of product without recovered materials plus the amount of product with recovered materials.

<sup>2</sup> Within section 2, the term *purchased* includes both direct government purchases, as well as procurement of products through government contracts.

<sup>3</sup> The products designated by EPA are commonly referred to as "CPG-items" or "recycled content products." RCRA refers to them as "products containing recovered materials," which is the term used in this reporting document unless a more specific term, such as re-refined oil or retread tires, is used.

**\$2,134,453.** Almost 90% of the purchases in this category qualified as containing the required recycled content or were justified exemptions.

- iv) If this product is purchased using an Agency specification, does that specification require the use of recovered materials?  
**Yes  No  Not Applicable**
- v) Were there any technical impediments to increasing the purchase of this item by your Agency in FY 2005? **Yes  No**  If yes, please describe the impediment(s). Select DOE site statements on impediments are provided below:

Commercial Sanitary Tissue Products
Industrial wipes for cleaning optics and machine parts must be lint-free, anti-static, and non-abrasive. Recycled content wipes meeting those criteria are not yet available.

**b) Non-Paper Office Products: Toner Cartridges**

- i) Does your Agency purchase this item (directly or through contracts)?  
**Yes  No**  If no, skip to next section.
- ii) Total dollar amount of these products purchased by your Agency from sources *other than GSA or DLA* in FY 2005 **\$9,365,071.**
- iii) Dollar amount of these products containing recovered materials purchased by your Agency from sources *other than GSA or DLA* in FY 2005 **\$3,009,982.** Over 85% of purchases in this category qualified as remanufactured cartridges or were justified exemptions.
- iv) If this product is purchased using an Agency specification, does that specification require the use of recovered materials?  
**Yes  No  Not Applicable**
- v) Were there any technical impediments to increasing the purchase of this item by your Agency in FY 2005? **Yes  No**  If yes, please describe the impediment(s). Select DOE site statements on impediments are provided below:

Toner Cartridges
The time required to verify the quality control process and products of the numerous remanufactures impedes product specification.
There is a perception that printer manufacturers are installing computer chips in certain lines of printers that require use of new replacement cartridges of their own manufacture (i.e., precludes the use of remanufactured cartridges from other suppliers).
There is a cultural resistance to using remanufactured toner cartridges. Users believe machines will be damaged or the warranty voided through using remanufactured cartridges

**c) Construction Products: Concrete and Cement**

- i) Does your Agency purchase concrete and cement (directly or through contracts, e.g., construction contracts)? **Yes  No**   
If no, skip to next section.
- ii) Total amount of concrete and cement purchased and/or used by your Agency in FY 2005 **\$5,321,392.**
- iii) Amount of concrete and cement containing coal fly ash and/or ground granulated blast furnace slag purchased and/or used by your Agency in FY 2005 **\$4,393,917.** Over 98% of the purchases in this category qualified as containing the required recycled content or were justified exemptions.
- iv) If this product is purchased using an Agency specification, does that specification require the use of recovered materials?  
**Yes  No  Not Applicable**
- v) Were there technical impediments to increasing the amount of concrete and cement containing coal fly ash and/or ground granulated blast furnace slag purchased by your Agency in FY 2005? **Yes  No**  If yes, please describe the impediment(s). Select DOE site statements on impediments are provided below:

Concrete and Cement
Batch concrete plants in the region do not have a ready supply of fly ash or blast furnace slag to add to the concrete mix.
Bagged pre-mixed concrete used for small projects are not available with recovered material from local vendors.

**d) Landscaping Products: Landscaping Timbers**

- i) Does your Agency purchase this item (directly or through contracts or other mechanisms)? **Yes  No**  If no, skip to next section.
- ii) Total dollar amount of these products purchased by your Agency in FY 2005 **\$15,834.**
- iii) Dollar amount of these products containing recovered materials purchased by your Agency in FY 2005 **\$15,834.**
- iv) If this product is purchased using an Agency specification, does that specification require the use of recovered materials?  
**Yes  No  Not Applicable**
- v) Were there any technical impediments to increasing the purchase of this item by your Agency in FY 2005? **Yes  No**  If yes, please describe the impediment(s).

**e) Park and Recreation Products: Park Benches and Picnic Tables**

- i) Does your Agency purchase this item (directly or through contracts or other mechanisms)? **Yes  No**  If no, skip to next section.
- ii) Total dollar amount of these products purchased by your Agency in FY 2005 **\$28,231.**

- iii) Dollar amount of these products containing recovered materials purchased by your Agency in FY 2005 **\$18,031**. Over 71% of the purchases in this category qualified as containing the required recycled content or were justified exemptions.
- iv) If this product is purchased using an Agency specification, does that specification require the use of recovered materials?  
**Yes X No \_\_\_ Not Applicable \_\_\_**
- v) Were there any technical impediments to increasing the purchase of this item by your Agency in FY 2003? **Yes X No \_\_\_** If yes, please describe the impediment(s). Select DOE site statements on impediments are provided below:

Park Benches and Picnic Tables
Recycled content benches and tables are not readily available that meet safety specifications.
Recycled content benches and tables are not readily available that meet handicapped accessibility requirements.
Recycled content benches and tables are not readily available that meet dimensional requirements of the locations where they are to be used.

**f) Transportation Products: Traffic Barricades**

- i) Does your Agency purchase this item (directly or through contracts or other mechanisms)? **Yes X No \_\_\_** If no, skip to next section.
- ii) Total dollar amount of these products purchased by your Agency in FY 2005 **\$28,566**.
- iii) Dollar amount of these products containing recovered materials purchased by your Agency in FY 2005 **\$1,896**. Over 14% of the purchases in this category qualified as containing the required recycled content or were justified exemptions.
- iv) If this product is purchased using an Agency specification, does that specification require the use of recovered materials?  
**Yes X No \_\_\_ Not Applicable \_\_\_**
- v) Were there any technical impediments to increasing the purchase of this item by your Agency in FY 2005? **Yes X No \_\_\_** If yes, please describe the impediment(s). Select DOE site statements on impediments are provided below:

Traffic Barricades
Not all types or styles of traffic barricades specified are available with recycled content.

**g) Vehicular Products: Re-refined Oil**

- i) Does your Agency purchase this item (directly or through contracts or other mechanisms)? **Yes X No \_\_\_** If no, skip to next section.
- ii) Total dollar amount of these products purchased by your Agency in FY 2005 **\$359,507**.

- iii) Dollar amount of these products containing recovered materials purchased by your Agency in FY 2005 **\$138,767**. Over 65% of the purchases in this category qualified as containing the required recycled content or were justified exemptions.
- iv) If this product is purchased using an Agency specification, does that specification require the use of recovered materials?  
**Yes  No  Not Applicable**
- v) Were there any technical impediments to increasing the purchase of this item by your Agency in FY 2005? **Yes  No**  If yes, please describe the impediment(s). Select DOE site statements on impediments are provided below:

Re-refined Oil
Re-refined oil was not available for specialized equipment and application in specific grades or viscosity-weight
Re-refined oil was not amenable to high temperature applications.
New equipment with warranty stipulations precludes the use of re-refined oil.

**h) Miscellaneous Products: Signage**

- i) Does your Agency purchase this item (directly or through contracts or other mechanisms)? **Yes  No**  If no, skip to next section.
- ii) Total dollar amount of these products purchased by your Agency in FY 2005 **\$500,335**.
- iii) Dollar amount of these products containing recovered materials purchased by your Agency in FY 2005 **\$279,579**. Over 74% of the purchases in this category qualified as containing the required recycled content or were justified exemptions.
- iv) If this product is purchased using an Agency specification, does that specification require the use of recovered materials?  
**Yes  No  Not Applicable**
- v) Were there any technical impediments to increasing the purchase of this item by your Agency in FY 2005? **Yes  No**  If yes, please describe the impediment(s). Select DOE site statements on impediments are provided below:

Signage
Special order signs were needed to meet specific requirements. The manufacturer would not guarantee the end products if the signs were constructed with recycled content plastic material.
Signage was part of a construction project where vendor claimed inability to obtain recycled content in certain types of signs.

**3. Solid Waste Prevention, Recycling, and Waste Minimization**

- a) Did you institute new, substantially improved, or updated solid waste prevention practices in FY 2005?

**Yes  No**  Please provide an explanation of your response. Over 93% of DOE sites had declared implementation of environmental management systems (EMS) by December 31, 2005, as required by Executive Order 13148 and DOE Order 450.1, *Environmental Protection Program*. Site EMSs include the systematic planning, integrated execution, and evaluation of pollution prevention programs. The Order requires eliminating or reducing the generation of waste and procuring recycled-content materials and other environmentally preferable products and services. The Order is available at <http://www.directives.doe.gov/pdfs/doe/doetext/neword/450/o4501c2.pdf>.

- b) Does your Agency have sites or facilities with composting programs? **Yes  No**  If yes, how many facilities or sites? 21 DOE sites reported composting or chipping wood. Estimate the total weight of materials diverted to composting: 570 metric tons
- c) What percentage of offices/sites operated by your Agency have an active office products recycling program? 39 of 42 reporting sites (93%).
- d) What percentage of residential housing operated by your Agency have an active household products recycling program? 425 of 425 houses (100% of housing). All houses are at one DOE site.
- e) What percentage of demolition projects managed by and/or contracted by your Agency include the recovery of construction materials? 88% of DOE sites recovered construction materials; 32,492 metric tons of concrete and wood were recycled.
- f) What percentage of the total solid waste<sup>4</sup> generated by your Agency was diverted to recycling? 93,917 of 291,560 metric tons (32%). For purposes of DOE reporting, solid waste includes sanitary waste and construction and demolition debris.
- g) Does your Agency have an internal awards program in accordance with Executive Order 13101, Section 802? **Yes  No**  Please provide details for your response, or if the response is no, please explain why not. The Department of Energy Pollution Prevention (P2) Awards Program is timed to precede the White House Closing the Circle Awards Program. The 34 recipients of the DOE P2 Best in Class Awards in 2005 were honored during a complex-wide P2 Workshop in Las Vegas in May 2005, and recognized during the Department's Earth Day celebration. Four of the DOE P2 award recipients received Closing the Circle honorable mention and were recognized by the Secretary of Energy along with the Best in Class Award winners in a congratulatory memorandum to Department elements. See [https://www.eh.doe.gov/p2/p2awards/SEC\\_P2\\_Award\\_CongratsMemo.pdf](https://www.eh.doe.gov/p2/p2awards/SEC_P2_Award_CongratsMemo.pdf) Brief descriptions of the DOE P2 award winners are included in the Department's annual EO 13148 Progress Report. More information on the award winning activities and all nominated activities is available at <https://www.eh.doe.gov/p2/p2awards/>. The EO 13148 report also describes the pollution prevention awards given to DOE sites by EPA and States.
- h) In FY 2005, did your Agency participate in a pilot project to purchase

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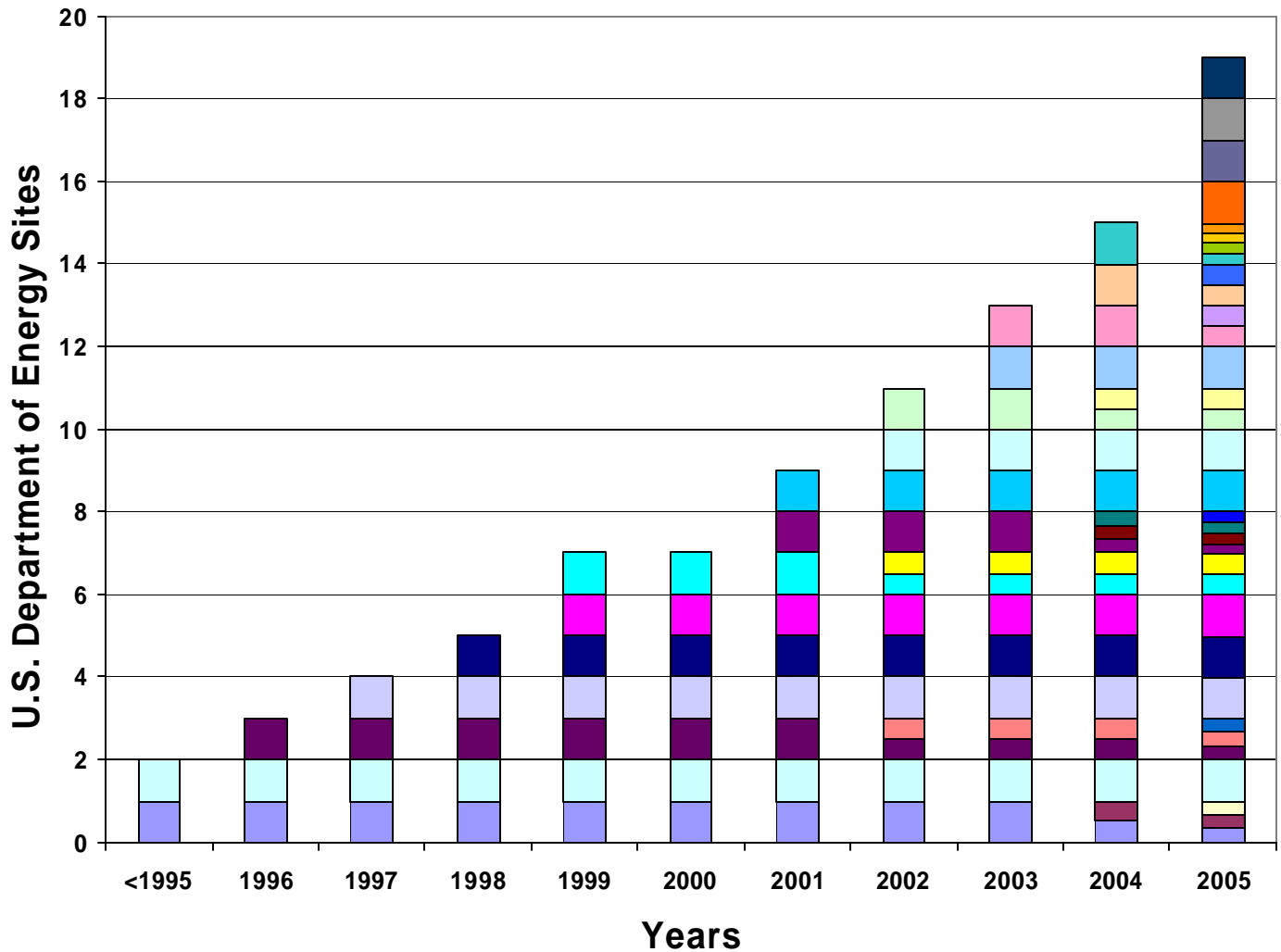
<sup>4</sup> "Solid waste" refers to municipal solid waste as defined by EPA. Please indicate if your Agency is including other materials, such as construction and demolition debris.

environmentally preferable products or services per the requirements of EO 13101, sections 503(b) and 601(c)? **Yes X No \_\_\_**. Please provide details for your response. 1) The National Renewable Energy Laboratory (NREL) tested 100% post-consumer copy paper and now specifies this percentage of recycled content when purchasing copy paper. 2) The Lawrence Berkeley National Laboratory specified recycled content in new office furniture for a new lab building. 3) The Argonne National Laboratory tested recycled paint (paint collected and reformulated on-site); the application and coverage were comparable to the standard paint used at the lab. 4) The Pantex Plant piloted an initiative to purchase compost made from a mix of cow manure and shredded classified/sensitive paper.

- i) In FY 2005, did your Agency purchase or test any biobased products, other than biobased fuels? **Yes X No \_\_\_** Please provide details for your response, including the source(s) of the products (e.g., GSA schedule, DLA, commercial source, support services contractor). 1) In FY2005, DOE increased the number of DOE sites using biobased products and materials from 15 sites to 19 and increased the types of biobased products being used from 9 types of products to 15. The 6 new products piloted were as follows:
- biobased carpet installed as a pilot in a conference room at the Pacific Northwest National Laboratory
  - biobased lubricant and biobased wheel cleaner were tested on the vehicle fleet and performed well at the Idaho National Laboratory
  - biobased stripper was tested in the Sandia National Laboratories paint shop and performed well
  - biobased foam insulation and biobased roofing sealant were evaluated and approved for use in the DOE Weatherization Assistance Program (WAP).
- 2) DOE provided support to the Department of Agriculture (USDA) for the last several years in research and development of biobased products. See <http://www.eere.energy.gov/biomass/>. Research has been done on biobased paints and sorbents, cleaning products, cream abrasives, detergents, and biodiesel through the DOE National Bioenergy Center. 3) DOE also promoted early adoption of biobased product purchases within the Department through creation of the Preferred Procurement Partnership. The Partnership is comprised of the Offices of Environment, Safety and Health; the Office of Energy Efficiency and Renewable Energy; and the Office of Management within the Department that share responsibility and commitment to green purchasing. The Partnership promoted the purchase of environmental preferable products, including biobased products, through information sharing and networking via teleconferences with sites across the DOE complex, outreach to purchasers, users and suppliers, and providing sources of technical support for problem solving. 4) The Department is the Federal government's lead agency in alternate fuel research. This includes hydrogen fuel production, delivery, and storage, fuel cells, hybrid vehicles, and advanced combustion engines. See <http://www.eere.energy.gov/vehiclesandfuels/> and <http://www.eere.energy.gov/hydrogenandfuelcells/>.

j) Is your Agency using green cleaning products or services at any of your facilities, including facilities managed by GSA and leased facilities? **Yes X No \_\_\_**  
See Figure 1 below for the list of DOE sites using biobased products including cleaning products.

**Figure 1**  
**Department of Energy Use of Biobased Products**  
**FY2005 - In Use or Approved for Use**



Weatherization Assistance Program - insulation cellulose	Weatherization Assistance Program - insulation foam
Weatherization Assistance Program - roof sealant	Argonne National Laboratory - ethanol
Sandia National Laboratory - hydraulic fluid	Sandia National Laboratory - ethanol
Sandia National Laboratory - stripper	National Renewable Energy Laboratory - ethanol
Brookhaven National Laboratory - hydraulic fluid	Savannah River Site - ethanol
Los Alamos National Laboratory - hydraulic fluid	Los Alamos National Laboratory - absorbent
Pacific Northwest National Laboratory - general cleaner	Pacific Northwest National Laboratory - floor care
Pacific Northwest National Laboratory - detergent	Pacific Northwest National Laboratory - carpet
Western Area Power Administration - biodiesel	Nevada Test Site - biodiesel
Pantex Plant - biodiesel	Pantex Plant - ethanol
Fermi National Accelerator Laboratory - ethanol	Oak Ridge National Laboratory - ethanol
Oak Ridge National Laboratory - lubricant	Princeton Plasma Physics Laboratory - hydraulic fluid
Princeton Plasma Physics Laboratory - general cleaner	Idaho National Laboratory - biodiesel
Idaho National Laboratory - lubricant	Idaho National Laboratory - wheel cleaner
Idaho National Laboratory - windshield cleaner	Y-12 Security Complex - cleaners
National Energy Technology Laboratory - cleaners	Lawrence Livermore National Laboratory - biodiesel
DOE-Headquarters - window cleaner	



#### 4. Management Controls

##### g) **Affirmative Procurement Policy**

- i) Does your Agency have a documented policy or procedure for the implementation of the affirmative procurement program (APP) required by section 6002 of RCRA? **Yes X No \_\_\_**
- ii) Does the Agency policy define responsibility for:
  - (1) Conducting awareness training? **Yes X No \_\_\_**
  - (2) Incorporating APP requirements into specifications and contracts? **Yes X No \_\_\_**
  - (3) Establishing and measuring progress toward APP objectives? **Yes X No \_\_\_**
  - (4) Reporting progress? **Yes X No \_\_\_**
  - (5) Management review? **Yes X No \_\_\_**
- iii) Does your Agency have a requirement to routinely update the affirmative procurement policy? **Yes X No \_\_\_** If so, is the APP policy reviewed/updated in accordance with this plan? **Yes X No \_\_\_**
- iv) Has the Agency affirmative procurement policy been updated within the past three years (i.e., it incorporates EPA's CPG 3 and CPG 4 product designations?) **Yes X No \_\_\_**
- v) Has your policy, procedure, or plan been amended to implement the procurement of biobased products as required by section 9002 of the Farm Security and Rural Investment Act of 2002? **Yes X No \_\_\_** 1) The Department has participated in the development of a Federal Acquisition Regulation (FAR) Case to amend that regulation to make the USDA Biobased Products Program a part of the Affirmative Procurement Program at FAR Part 23.4 In anticipation of the FAR amendment, the Department of Energy Acquisition Regulation (DEAR) has been modified through a Final Rule (68 FR 6355) published on February 7, 2003. 2) The DOE Procurement Executive also issued a formal announcement of the Department's early adoption of the USDA Biobased Products Program. It identified contracting and subcontracting opportunities at DOE sites through which the use of biobased environmentally preferable products or services could be pursued. 3) DOE's P2 and EPP (environmentally preferable purchasing) Reporting Data Entry Guidance has also been modified to encourage and allow reporting of biobased product purchases.
- vi) Please attach a copy of or provide the URL for the website for your Agency APP policy. See <http://www.directives.doe.gov/pdfs/doe/doetext/neword/450/o4501c2.pdf>.

##### b) **Training**

- i) Who is responsible for conducting training of agency personnel with respect to the buy-recycled requirements? Pursuant to DOE Order 450.1, Environmental Protection Program, the Office of Management, in coordination with other DOE elements (including the Office of Environment, Safety and Health and the Office of Energy Efficiency and

- Renewable Energy), is responsible for including training on environmental requirements and environmental management system (EMS) in training programs for program managers, contracting personnel, procurement and acquisition personnel and facility managers, and for ensuring that procurement policies and procedures encourage the Department's acquisition of environmentally preferable products.
- ii) How many acquisition personnel have documented APP training within the past three years? 388 of 388 personnel (100%).
  - iii) Is training provided by agency personnel, an outside source (e.g., Defense Acquisition University's contracting officer training courses), or both? Both. Federal personnel have presented Green Acquisition training at both Federal and contractor-operated facilities. In addition, Acquisition Career Development Certification requirements for DOE's contracting employees include a module on Affirmative Procurement.
  - iv) What percentage of purchase card holders have documented APP training within the past three years, as required by Executive Order 13101? 1,300 of 1,300 (100%) of all purchase cardholders and approving officials have completed Affirmative Procurement Training. The training module is available at:  
<https://www.eh.doe.gov/p2/ap/APPandEPPforPurchaseCards0205Rev.ppt>
  - v) Who provides the training to purchase card holders? Affirmative Procurement training was developed and is presented by environmental and procurement personnel.
  - vi) How is training of purchase card users documented? A Certificate of Completion is provided to cardholders and approving officials and then this information is furnished to the local purchase card coordinator.
  - vii) Has your Agency begun training about biobased products procurement? **Yes X No \_\_\_** If yes, who provided the training? The DOE Office of Biomass in the Office of Energy Efficiency and Renewable Energy with support from the Office of Environment Safety and Health and the Office of Procurement and Assistance Management.
- c) **Auditing**
- i) What percentage of Agency facilities conducted and documented contracting and/or environmental audits for APP compliance during this reporting period? 33% of DOE contracting activities are required to complete a procurement self-assessment every three years which includes an Affirmative Procurement review.
  - ii) Does the Agency conduct trend analysis of audit, training, and FPDS data to assess APP program effectiveness? **Yes X No \_\_\_**
  - iii) What types of trends are realized as a result of findings from these audits? While the auditing component of the APP is still too new to identify trends, DOE has tracked trends in environmentally preferable purchasing through its annual reports for several years. The trends vary by contracting activity but generally reveal greatest success in areas such as paper products and non-paper office products, and construction products. Impediments to greater APP compliance continue to be related to the non-

availability or non-suitability of products for their required use. The trend analysis allows the DOE Green Acquisition Advocates to focus on APP areas that are not as successful.

- iv) Are audit findings reported to senior facility management? **Yes X No \_\_\_**
- v) Are corrective actions from these audit findings tracked by senior facility management? **Yes X No \_\_\_**
- vi) Provide a copy of or the URL for the website for your Agency APP audit protocol, procedure, or other similar program document. See <http://professionals.pr.doe.gov/ma5/MA5Web.nsf/Business/Balanced+Scorecard?OpenDocument>

**d) Agency Goals**

- i) As required by EO 13101, what is your agency's goal for solid waste diversion by 2005? 45% By 2010? 50%
- ii) What is your agency's current recycling or diversion rate? 32%
- iii) What is your agency's goal to increase the procurement of EPA-designated recycled content products? More focused training and communication to dispel some of the misconceptions about the use of recycled content products.
- iv) As required by EO 13101, does your agency have a goal for increasing the use of environmentally preferable products? **Yes X No \_\_\_** If yes, what is the goal? 100% procurement of EPA-designated recycled content products. How are you measuring progress toward the goal?  $\frac{\text{Total purchases with recovered content plus justified exceptions}}{\text{total purchases}} = \text{adjusted accomplishment. The adjusted accomplishment for FY 2005 is over 90\%.$
- v) Has your agency established a goal for purchases of biobased products? **Yes X No \_\_\_** The goal is to purchase as much as available, economically practical, and meet performance requirements. As early adopters of the Buy Bio Program, DOE has not waited for designation of specific items but has encouraged DOE sites to purchase as many different types of bioproducts and services as possible.