ENVIRONMENTAL STEWARDSHIP SCORECARD Department of Energy

		STATUS (January 1, 2009)	PROGRESS (January June, 2009)	COMMENTS
ENVIRON- MENTAL STEWARDSHIP		Metric #1 • EMS report card:	Actions taken since January 1, 2009: DOE continued to address implementation of the EMS requirements in EO 13423:	DOE Order 450.1 Environmental Protection Program (01/15/03) required implementation of EMS at DOE facilities, pursuant to EO 13148
Senior Agency Official: Catherine Zoi Assistant Secretary Energy Efficiency		<15% red on facility metrics (Y)	43 DOE EMSs were declared "fully implemented" by June 30, 2009, in conformance with EO 13423 and DOE Order 450.1A <i>Environmental Protection Program</i> requirements. [This deadline was established in DOE O 450.1A, after	 100% of DOE "appropriate facilities" had EMSs in place by June 2006, pursuant to EO 13148. DOE Order 450.1A, <i>Environmental Protection Program</i> (06/04/08), incorporates the new EMS requirements of EO 13423. This Order includes integration of the environmental compliance management improvement requirements of EO 13423 and its Implementing Instructions into EMSs at DOE sites. For FY 2008, 88% of DOE sites with EMSs (identified prior to 01/07) were are "green" under the EMS scorecard metric.
and Renewable Energy			consultation with the Federal Environmental Executive (FEE).] - DOE has 47 EMSs whose declaration deadline is June 30, 2009.	
Lead EOP Analysts:			 42 of these are EMSs identified prior to 01/07. 	
Cyndi Vallina Dana Arnold Juan Lopez			 3 EMSs were formerly part of another EMS. 	
Juan Lopez			 2 EMSs are newly identified EMSs whose deadline was established as June 30, 2009 	
			following consultation with the FEE.	Information Notice on What's New in DOE Order 450.1A issued
		 Of the 4 EMSs which are not yet declared "fully implemented," two involve contractor transitions: 	complex wide (6/28/08). Provides information and access to instructional materials on the responsibilities and requirements	
			 2 are scheduled to be declared 	of DOE Order 450.1A

by fall 2009

- 2 are scheduled to be declared by December 31, 2009
- Completed tabulation of DOE site responses to the open-ended metrics questions; submitted final annual EMS report for FY2008 to EPA and OFEE in April 2009.
- Continued support by DOE's EMS
 Assistance Network (EMSAN) for EMS implementation with monthly conference calls to share information among DOE and contractor staff on implementation of the EMS requirements of EO 13423 and DOE Order 450.1A.
 - EMSAN provided technical assistance to DOE sites on implementing the environmental compliance management improvement requirements of EO 13423 and DOE Order 450.1A, and served as a venue for obtaining site comments on environmental compliance auditing guidance.
- Continued participation in Interagency Environmental Leadership Workgroup subgroups on EMS metrics and organization-wide EMS guidance.
- Conducted environmental compliance management support activities including:
 - Updated inventory of notices of violation (NOVs), permit exceedences and "Significant Noncomplier" (SNC) designations at DOE sites to assess environmental compliance assistance needs.

- implementing the new EMS requirements and sustainable practices and goals in EO 13423. http://www.hss.energy.gov/nuclearsafety/nsea/oepa/policy/whats_new450_1a_notice.pdf
- Distributed complex-wide an Information Brief "Frequently Asked Questions" (07/28/08) in support of DOE Order 450.1A, Environmental Protection Program, which establishes EMS as the management framework for implementing the sustainable practices and goals of EO 13423. http://homer.ornl.gov/nuclearsafety/env/policy/doe o 450 1A faq.pdf
- Training on EMS requirements, including integration of environmental compliance management requirements, and sustainable practices and goals in EO 13423 and DOE Order 450.1A conducted at DOE workshops held at the conclusion of the June 2008 Federal Environmental Symposia East and West.
- DOE's Chief Financial Officer issues annual Field Budget Guidance directing DOE sites to ensure funding and resources needed to implement EMS and corresponding environmental compliance and pollution prevention programs are included in the annual budgetary process.
- Secretary of Energy memorandum

- Supported sites with correction of errors in EPA's Enforcement and Compliance History Online (ECHO) database regarding purported environmental noncompliance.
- Supported White House Closingthe-Circle award nomination process by checking the compliance information on the Online Tracking Information System (OTIS) system for relevant facilities and sites.
- Developed and submitted for internal review two draft Guides to be included in the DOE Directives System:
 - Implementation Guide for Integrating Sustainable Practices into Environmental Management Systems, and
 - Implementation Guide for Developing an Environmental Compliance Improvement Audit and Review Program
- Continued EMS Outreach and Training:
- In May, conducted pilot training on Strategies for Successfully Integrating Sustainable Practices into EMSs at Idaho National Laboratory
- In June, made seven EMS presentations at the Federal Environmental Symposium (FES) West and nine at the FES East.
- In June, conducted training for site representatives on EMS and sustainable practices at the DOE

- to all DOE employees on
 December 8, 2006, enumerated
 and emphasized the Operating
 Principles spelled out in the
 Department's new Strategic Plan.
 The Department's first Operating
 Principle is to "Ensure safe,
 secure, and environmentally
 responsible operations."
- In 2008, provided EMSAN presentation on environmental compliance audit requirements of EO 13423 and DOE Order 450.1A, and formed workgroup to develop implementation guidance on environmental compliance management improvement at DOE sites, including conduct of environmental compliance audits and root cause analysis of noncompliance issues.

	Environmental Sustainability Workshops, which were held in conjunction with the West and East (FES). In June, conducted EMS training for representatives from program offices at DOE-HQ (Offices of Environmental Management, Science, and Management). Presented Leadership Awards recognizing outstanding achievement in the area of environmental sustainability (EStar) on two separate occasions: On Earth Day in April, EStar award plaques were presented to respective Program Secretarial Officers. Secretary Chu participated in ceremony. In June, eight EStar awards and three honorable mentions were presented to individuals across the Complex whose projects demonstrated exemplary practices that contributed to the advancement of sustainability in environmental and energy management. Deputy Secretary Poneman participated in ceremony.	
	In June, issued DOE Acquisition Letter, Greening Considerations under Awards Using American Recovery and Reinvestment Act (ARRA) of 2009 Funding (AL-2009-08) to ensure that all contracts where ARRA funded work is performed on a DOE covered workplace, contain sustainability	

requirements, including EMS objectives
and targets to:

- reduce energy and water consumption
- construct high performance and sustainable buildings
- procure environmentally preferable and energy efficient products
- reuse and recycle demolition and deconstruction materials
- reduce or eliminate the use of toxic chemicals and hazardous materials.
- incorporate electronics stewardship practices for purchase, use and disposition of electronic assets
- conduct operations to minimize the direct and indirect generation of greenhouse gases http://management.energy.gov/documents/AL2009-08.pdf

Planned actions for next six months:

- Submit, by July 15, 2009, an update to DOE's response to the July 15, 2008, OFEE data call on "fully implemented" EMSs. [Previous responses were submitted 10/01/08 and 01/15/09.]
- Complete tabulation of DOE sitespecific, self-reported data for the DOE FY 2009 EMS Annual Report, and submit final report to EPA and OFEE for the OMB Environmental Stewardship Scorecard.
- Continue developing EMS-related guidance. Submit two draft Guides to the Department's formal comment and review process, and publication in the

	 DOE Directives System. Implementation Guide for Integrating Sustainable Practices into Environmental Management Systems (2009). Implementation Guide for Developing an Environmental Compliance Improvement Audit and Review Program (2010) 	
	Initiate updating existing EMS-related guidance Integrating EMS into the Integrated	
	Safety Management System (ISMS) - Senior Management Guide to EMS	
•	Continue training and outreach - conduct training on Integrating Sustainability in the EMS at the Earth Wind and Sun Event at Sandia National Laboratory in July 2009.	
	 Develop plan for conducting Environmental Compliance Audit Training at sites. 	
	 Update the annual Nuclear Executive Leadership Training (NELT) to reflect the current status of environmental 	
	noncompliance, including Significant Noncompliances (SNCs), Notices of Violation	
	(NOVs), permit exceedences, and the status of corrective actions.Present a panel of site ES&H managers discussing "Integration	
	of EMS and Integrated Safety Management" at DOE's Annual Integrated Safety Management	
	Summit in August 2009.	

Six Month Progress Report (January - June, 2009)					
	Continue to support and expand EMSAN to provide technical assistance to DOE sites on incorporating EO 13423 and DOE Order 450.1A sustainable practices and goals, and environmental compliance management elements, in site EMSs.				
	Continue to support the Interagency Environmental Leadership Workgroup subgroups on metrics and organization- wide EMSs.				
	Prepare Information Brief discussing Greenhouse Gas reduction and reporting initiatives for DOE sites in the context of EMS.				

Metric #2

- · Green purchasing:
- ___Agency has APP and representative acquisitions for all covered areas (Y)

Actions taken since January 1, 2009

- Continued to acquire environmentally preferable products, when available, affordable and effective.
- EO 13423 Annual Progress Report on Sustainable Acquisition, Recycling and Pollution Prevention Practices issued (2/18/09), highlighting DOE purchases of recycled-content products, expansion of biobased-content product purchasing, EPEATregistered electronics purchasing, and solid waste diversion (recycling).
- DOE purchases of recycledcontent products exceeded \$31.9 million, and both the variety of biobased products purchased and the number of DOE sites making these purchases increased, with 26 sites purchasing 18 types of renewable, non-hazardous biobased products. By purchasing these products, DOE sites prevented the release of more than 955 metric tons of greenhouse gases associated with the manufacture of virgin-content products.
- Biobased products purchased include: diesel fuel additives; penetrating lubricants; roof

Comments

- DOE implemented policies for the acquisition of environmentally preferable products, including:
 - DOE Order 450.1A, Environmental Protection Program, (June 2008) which requires integration of EO 13423 sustainable acquisition practices and goals in EMS. http://www.directives.doe.gov/pdfs/doe/doetext/neword/450/o4501a.pdf
 - DOE Acquisition Regulations (DEAR), Acquisition and Use of Environmentally Preferable Products and Services (48 CFR 970.5204); and Affirmative Procurement Program (48 CFR 970.5223-2) http://management.energy.gov/DEAR970.pdf
 - DOE Acquisition Guide, Chapter 23, Strengthening Federal Environmental, Energy, and Transportation Management in Acquisition, was renamed and updated to implement the sustainable acquisition requirements of EO 13423, and includes new items such as the Electronic Product Environmental Assessment Tool (EPEAT), WaterSense, Plug-In Hybrid Vehicles, and

- coatings; bedding/linens/ towels; adhesives; construction materials; inks; mastic/finish removers; cutting oils; sealers; herbicides; bio-plastics; and solvents/cleaners/ disinfectants.
- Continued to provide technical assistance to DOE sites on implementation of EO 13423 sustainable acquisition requirements and DOE Order 450.1A sustainable acquisition practices and goals, including purchases of recycled-content products, expansion of biobasedcontent product purchasing, and EPEAT-registered electronics purchasing.
- Performed a procurement selfassessment at approximately onethird of the contracting activities in FY 2009, including an affirmative procurement review.
- Continued outreach and education program on environmentally preferable purchasing at DOE, including quarterly conference calls with DOE site green acquisition advocates (procurement personnel) and pollution prevention coordinators.
 - January 2009, quarterly EPP teleconference covered review of FY08 PPTRS EPP performance; Ability One presentation on EPP office

- Sustainable Design/High
 Performance Buildings. This
 Guide addresses the role of
 the Green Acquisition
 Advocates in promoting and
 implementing environmentally
 preferable purchasing,
 including the USDA Biobased
 Product Procurement
 Preference Program in DOE
 contracting activities.
 http://management.energy.gov/documents/AcqGuide23pt0Rev1.pdf
- DOE Acquisition Letter,
 Energy Efficiency of Energy
 Using Products Implementation of Section 104
 of the Energy Policy Act of
 2005 on specification of
 ENERGY STAR® qualified
 products or products
 conforming to FEMP Energy
 Efficiency Requirements in
 DOE acquisition contracts.
- DOE Acquisition Letter,
 Environmentally Preferable
 Purchasing Through the Use
 of the Electronic Product
 Environmental Assessment
 Tool (EPEAT) (AL-2007-08) on
 DOE contractor purchasing of
 environmentally preferable
 electronics, and specification
 of EPEAT-registered products
 in DOE acquisition contracts.

- supplies; EPEAT proposal on electronics imaging; and EPP options for Construction materials
- April 2009, quarterly EPP teleconference covered the OFEE green products compilation available on FedCenter; DOE-HQ Earth Day sustainability displays and activities; presentation on FEMP-designated energy efficient products; availability of Purchase Card and EPP training; and discussion on remanufactured toner cartridges
- In May, provided on-site technical assistance and training to Richland Operations Office, Office of River Protection, and Pacific Northwest National Laboratory on sustainable acquisition of recycled content and biobased content products, and EPEAT-registered electronics, including annual performance reporting.
- In June, DOE HQ and site representatives provided four EPP presentations at the FES West and two at the FES East.
- In June, conducted training for DOE site representatives on EPP at the DOE Environmental Sustainability Workshops, which were held in conjunction with the

- DOE Environmentally Preferable Purchasing Program Overview provides guidance on and webbased access to the policies. procedures and reporting related to the acquisition of recycledcontent products, biobasedcontent products including biofuels, energy efficient products, and non-ozone depleting products. This Overview, in concert with the Acquisition Guide (Chapter 23), and the policies, procedures and reporting discussed therein constitute the Department's "green purchasing plan."
- Detailed information on DOE's Environmentally Preferable Purchasing, including acquisitions of recycled-content, biobasedcontent, and EPEAT-registered products, is reported in the annual APP progress report to the OFEE and OMB. This report also includes DOE information on solid waste diversion (recycling), green purchasing promotion, training, and compliance monitoring and auditing.
- In 2008, the U.S. Department of Energy Environmentally Preferable Purchasing website was updated to reflect EO 13423, DOE Orders 450.1A (Environment) and 430.2B (Energy) sustainable acquisition practices and goals. http://www.hss.doe.gov/pp/epp/

West and East FES.

- Developed and submitted for internal review draft Implementation Guide for Integrating Sustainable Practices into Environmental Management Systems, including sustainable acquisition practices, pursuant to DOE Order 450.1A.
- In June, issued DOE Acquisition Letter, Greening Considerations under Awards Using American Recovery and Reinvestment Act (ARRA) of 2009 Funding (AL-2009-08) to ensure that all contracts where ARRA funded work is performed on a DOE covered workplace, contain sustainability requirements, including EMS objectives and targets to maximize the acquisition and use of energy efficient, water efficient, and environmentally preferable products, goods, and services in the conduct of operations to minimize the direct and indirect generation of greenhouse gases http://management.energy.gov/doc uments/AL2009-08.pdf
- In June, DOE's Office of Procurement and Assistance Management issue new Green Purchasing Contract Clauses as a separate "Section H" under the following: architect-engineer contracts; construction contracts; janitorial service contracts; computer contracts; and service

- In 2008, the U.S. Department of Energy Environmentally Preferable Purchasing Handbook was updated to reflect EO 13423, DOE Orders 450.1A (Environment) and 430.2B (Energy) sustainable acquisition practices and goals. http://www.hss.doe.gov/pp/epp/EP
 P-DOE-Handbook-rev12.pdf
- DOE issued Acquisition Letter AL 2008-05, 04/03/08, Environment, Energy, and Transportation Management, on the applicability of EO 13423 to contractor operation of Government-owned facilities and/or vehicles, including the sustainable acquisition provisions of the EO. http://management.energy.gov/documents/AL2008-05.pdf

Prepared by HS-22 - final, 07/02/09.

contracts. The clauses alert contractors that products provided to DOE under these contracts are
to be "green" in the sense of
recycled or biobased content,
energy and water efficient, and
non-ozone depleting.
http://management.energy.gov/doc uments/Flash2009-
49Attachment.pdf
107 ttaorimont.par
Initiated development of a protocol
to provide continuing education
credits for DOE procurement
provessionals that participate in DOE sustainability training.
Boz odotamability training.
Planned actions for next six months:
Continue to acquire
environmentally preferable
products, including recycled
content and biobased content
products and EPEAT-registered electronics.
- Through the DOE EPP hotline
service, work with sites on any
specific issues that arise in the
course of transitioning
purchasing systems to prefer
designated biobased products.
Conduct annual Pollution
Prevention Tracking and Reporting
System data call covering
Department-wide purchases of
environmentally preferable
products in FY 2009, including

DOE purchases of recycled-content products, biobased-content products, biobased-content products, biobased-content products purchasing. - Continue evaluation and consultation with sites on EPP information received from the annual data call. - Continue to support and expand the Environmental Management System Assistance Network (EMSAN) to provide training and technical assistance to DOE sites on implementing EO 13423 and DOE O 450.1A sustainable acquisition practices and goals in sites EMSs. - Continue outreach and education program on EPP at DOE, including an on-line, web-based reference library, holding training workshops, maintaining a hottine call-in service, on-site assistence wists, network contact list to faciliate sharing information among DOE sites, and quarterly teleconferences with sites' green acquisition advocates (procurement personnel), and environmentally preferable purchasing coordinators.	
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education (CL/CE) credits for DOE	continuous learning/continuing
procurement professionals	· · · ·

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l attending sustainability training.

Metric #3

- Sustainable design/green bldgs:
 - _✓ Implements Guiding Principles and on track to meet the 15% goal by 2015 (G)
 - ___ Implements Guiding
 Principles on all *new* building
 projects & leased space (Y)

Actions Taken Since January 1, 2009

- Initiated annual update to DOE's Sustainable Building Implementation Plan (SBIP) for implementing the High Performance and Sustainable Buildings (HPSB) principles in all capital asset new construction and major renovations, and in 15% of existing (owned and leased) buildings by 2015.
- Initiated update of guidance for site and program use in updating the 35 site-specific Executable Plans that were submitted to HQ in 2008. These plans, required under DOE Order 430.2B, describe sitespecific approaches for achieving environmental and energy sustainability goals, including the HPSB goals of EO 13423, e.g.,
- Incorporating the HPSB principles in all capital asset building new construction and major renovations through certification to the LEED Gold standard:
- Ensuring that 15% of existing buildings meet the sustainability goals by 2015; and
- Ensuring that leases include preferences for buildings certified to the LEED Gold standard.
- As prescribed in the SBIP,

- As of September 30, 2008, 2,661 DOE-owned buildings (54.19% of buildings in the candidate existing building inventory) totaling 34,169,345 gsf (43.44% of total gsf in candidate existing building inventory) had been assessed for sustainability.
- As of September 30, 2008, 20
 DOE buildings (15 owned and 5
 leased) met the HBSB principles.
 These sustainable buildings
 represent 1,729,614 gross square
 feet (gsf) (1,186,305 owned and
 543,309 leased). Of the total
 HPSB candidate existing building
 inventory, 2.20% of gsf conform to
 the HPSB principles (i.e., achieved
 U.S. Green Building Council
 (USGBC) Leadership in Energy
 and Environmental Design (LEED)
 certification or higher).
- Platinum 2 owned buildings totaling 81,347 gsf.
- Gold 1 owned building totaling 97,155 gsf and 1 leased building totaling 145,000 gsf.
- Silver 7 owned buildings totaling 694,529 gsf.
- Certified 5 owned buildings totaling 313,274 gsf and 4 leased buildings totaling 398,309 gsf.

- continued to track DOE progress in achieving the sustainable building goals of EO 13423 and DOE O 430.2B.
- DOE sites continued to evaluate the extent to which their existing building inventories meet the HPSB principles using the SBIP Existing Buildings Assessment Tool (EBAT), the Sustainable Buildings Assessment tool (SBAT), and other web-based assessment tools.
- Continued bi-monthly meetings of DOE's HPSB Workgroup (HPSBWG) to facilitate complexwide implementation of HPSB principles for new and existing buildings, including leased buildings, as specified in EO 13423 and DOE Order 430.2B. DOE also continued its leadership role and participation in the Interagency Sustainability Working Group (ISWG).
- In January, based on HPSBWG sustainable building lease recommendations, the DOE Senior Agency Official (acting) sent a letter to the GSA Public Building Service Commissioner requesting that GSA, when constructing new facilities for DOE, specify LEED Gold design that meets HPSB principles, and when entering into contracts and leases on DOE's behalf, set a preference for existing

- As of September 30, 2008, assessed 5 buildings out of the 282 DOE-leased buildings (6,191,974 gsf) in the candidate existing building inventory as sustainable buildings. These leased sustainable buildings represent 543,309 gsf, or 8.77% of the total candidate leased building inventory.
- DOE Order 430.2B, Departmental Energy, Renewable Energy, and Transportation Management (02/29/08) requires capital asset new construction, major renovations, and 15 percent of existing building inventory incorporate HPSB principles, as specified in EO 13423. Pursuant to this Order:
- New construction and major renovation projects are required obtain LEED Gold Certification;
- All programs that own or lease real property develop and implement an executable plan to ensure at least 15% of their enduring buildings conform with the HPSB principles by 2015;
- All procurement specifications for acquiring new leased space are to include a preference for buildings certified as LEED Gold (the renegotiation, or extension

space that is certified LEED Gold and meets the HPSB principles. The letter was signed on 1-26-09.

- Although leased from GSA and therefore not included in the DOE candidate existing building inventory, the DOE headquarters buildings in Washington, DC and Germantown, MD have, as a direct result of DOE-initiated and funded efforts, incorporated and continue to incorporate many HPSB principles and state-of-the-art energy, water-efficiency, and renewable energy technologies.
- In the spring of 2009, DOE initiated discussions and came to tentative agreement with GSA to study the feasibility of installing Green and White Roofs at DOE HQ buildings.
- In May, DOE applied to the Federal Energy Management Program's (FEMP) for technical services to support the design of a Green Roof for the DOE-HQ building. In June, DOE's request for technical services was accepted, and GSA indicated its support for efforts to install a Green Roof on the Forrestal West Building.
- In June, issued DOE Acquisition Letter, Greening Considerations under Awards Using American

- of existing leases are also to include provisions that support the HPSB principles);
- DOE headquarters, Forrestal and Germantown buildings, prominently feature HPSB principles; and
- Development and implementation of site-specific Executable Plans that communicates its commitment toward, and plans for, meeting all of the DOE goals outlined in the Order, including energy, water, sustainable material, and HPSB goals http://www.directives.doe.gov/pdfs/doe/doetext/neword/430/o430/2b.pdf
- DOE Order 450.1A, Environmental Protection Program (6/4/2008) establishes **Environmental Management** Systems (EMS) as the management framework for implementing the sustainable practices and goals of EO 13423, including HPSB. The Order also specifies a number of sustainable practices related to HPSB. including environmentally preferable purchasing, toxic chemical use reduction, and recycling. http://www.directives.doe.gov/pdfs

http://www.directives.doe.gov/pdfs/doe/doetext/neword/450/o4501a.

Recovery and Reinvestment Act (ARRA) of 2009 Funding (AL-2009-08) to ensure that all contracts where ARRA funded work is performed on a DOE covered workplace, contain sustainability requirements, including the incorporation of sustainability (HPSB principles) into the design, construction, renovation, leasing, and operation of DOE's ARRA funded facilities. http://management.energy.gov/doc

uments/AL2009-08.pdf

- Through the HPSBWG, DOE continued to provide training and outreach to facilitate implementation of the HPSB principles across the DOE complex and other Federal agencies. Examples of such activities include:
- In May, DOE made a presentation at the US Green Building Council's (USGBC) Federal Summit on the Department's program for integrating sustainable building goals and practices into the design, construction, operation, and decommissioning of its buildings.
- In May, DOE provided follow-up support to that provided in FY 2008 to the Department of Treasury on building assessment.

pdf

- The Secretary of Energy issued a memorandum entitled DOE Federal Leadership in High Performance and Sustainable Buildings (02/29/08) that re-affirms DOE's commitment to meeting or exceeding the EO 13423 HPSB goals, including having all new building construction and major renovation projects implement the HPSB principles and be certified as LEED Gold or better. It further instructs all DOE real property owning and leasing programs to ensure that 15% of enduring buildings are compliant with the HPSB principles by 2015. https://www.hss.energv.gov/pp/hp sb/S-1 DOEFederalLeadership inHighPerformanceandSustainabl eBuildings2008-02%2029.pdf
- In June 2008, the Department circulated instructions for developing Executable Plans required by DOE Order 430.2B. The instructions describe how DOE sites are to develop a plan for assessing current building inventory to determine the extent to which the HPSB principles are being applied, to incorporate the principles in all new construction. and to ensure that leases include preferences for buildings certified to the LEED Gold standard. http://www.hss.energy.gov/pp/DO

- In May, DOE briefed the Sustainable Operations and Maintenance Committee of the National Research Council's Federal Facilities Council on assessing and greening buildings.
- In June, DOE HQ and site representatives chaired sessions and/or made presentations on sustainable building assessments, LEED, and sustainable laboratories at the Federal Environmental Symposia (East and West). Six HPSB presentations were made at FES West and eight at FES East.
- In June, the DOE Facilities
 Information Management System
 (FIMS) and Real Estate
 Workshop included presentation
 and discussions on incorporating
 building sustainability and
 adherence to the HPSB
 principles into FIMS.
- In early 2009, the HPSBWG launched the DOE HPSB website. This site contains resources and tools to assist DOE sites in implementing the HPSB principles in new and existing buildings, including leased buildings.
 http://www1.eere.energy.gov/team/hpsb.html

- E Order 430 2B Executable Pla n Guidance Final.doc
- In June 2008, DOE Guide 413.3-6, High Performance Sustainable Building was published in the DOE Directives System. The Guide focuses on incorporating HPSB principles in program and project management of capital assets involving new construction and major renovation of facilities, pursuant to the HPSB requirements of DOE Order 413.3A and EO 13423.

 http://www.directives.doe.gov/pdf s/doe/doetext/neword/413/g4133-6.pdf
- In August 2008, DOIE submitted its SBIP for implementing the HPSB principles in new construction and existing buildings to OMB/OFEE. http://www.hss.energy.gov/pp/DOEHPSBImpPlan_FINAL_0815_08
- In 2008, the HPSBWG developed, tested, implemented, and disseminated an assessment tool to DOE sites for use in evaluating how their buildings conform to the HPSB principles. The tool includes a checklist for evaluating conformance with the principles (which is a modification of the "LEED for Existing Buildings,

- Continued to recognize outstanding HPSB performance.
 - In January, DOE submitted nominations for the 2009 White House Closing the Circle (CTC) Awards in all categories, including the HPSB category. One example is the National Energy Renewable Laboratory's Campus of the Future, which incorporates designs for green transportation, utility distribution, stormwater management, pedestrian connectivity, and energy production.
- In June, DOE issued two environmental sustainability (EStar) awards in the HPSB category. The first was for the Fernald Preserve Visitors Center, which received LEED platinum certification from the US GBC. The Visitors Center is the first building in Ohio, the second DOE building, and one of only roughly 100 buildings worldwide to achieve platinum certification. The second was for the Pacific Northwest National Laboratory, which incorporated sustainable design principles into policies and procedures for new construction at the Capability Replacement Laboratory.
- As of June 2009, more than 50

- Operations and Maintenance Certification Checklist" that matches LEED credits to their corresponding HPSB principles). The assessment tool calculates the percentage of HPSB principles met and/or the level of LEED certification attained.
- Beta tests were conducted at eight DOE sites to evaluate LEED templates and the Existing Building Assessment Tool (EBAT) via webinars or onsite assistance visits with SNL, LLNL, PPNL, ORNL, ANL, Hanford, NETL, and LBNL. Based on feedback from beta tests, the tool was rolled out to all DOE sites, and made available to all interested Federal agencies.
- EBAT is summarized in DOE's SBIP, and the full tool is available at http://www1.eere.energy.gov/tea m/hpsb_technical_guidance.html
- DOE's real property inventory is documented in both the Facilities Integrated Management System (FIMS), which tracks real property assets, and the Federal Real Property Reporting System (FRPRS).
- In 2008, DOE modified FIMS to include fields that allow for tracking compliance with the Guiding Principles as well as

Federal and contractor personnel had achieved the LEED Accredited Professional (AP) designation. The list of DOE LEED APs includes over a dozen Federal representatives from DOE's Office of Engineering and Construction Management.

 Developed and submitted for internal review draft Implementation Guide for Integrating Sustainable Practices into Environmental Management Systems, including sustainable building practices, pursuant to DOE Order 450.1A.

Planned actions for next 6 months

- Prepare and submit annual SBIP update to OMB/OFEE.
- Continue leadership and participation in the DOE HPSBWG and ISWG to facilitate implementation of HPSB Guiding Principles across the Complex and the Federal government
- DOE sites and program office to submit updates to the 35 sitespecific Executable Plans that were submitted to HQ in 2008, in accordance with DOE O 430.2B by December 31, 2009.
- Continue existing building sustainability assessments and

- documentation of LEEDregistered and certified buildings.
- To facilitate site use of the new fields, DOE expanded the FIMS administration and helpdesk to support additional users, and the DOE Office of Engineering and Construction Management provided training on the new FIMS sustainable building elements to site FIMS administrators at the Department's FIMS/Real Property Workshop in June 2008.
- FIMS also provides the candidate inventory for reporting progress in meeting the goal of having 15% of the existing buildings conform to the HPSB principles by 2015. The candidate inventory includes all enduring buildings (owned and leased) greater than 1,000 gsf that are not shut down or outgranted in their entirety and will not be excessed or disposed by 2015.
- Building assessment results are recorded in DOE's Facilities Integrated Management System (FIMS), which tracks sustainability status at the building level and allows for summary reporting of site assessment status.

- actions to achieve 15% candidate existing building inventory conformance with the HPSB principles by 2015, as described in the SBIP.
- Continue tracking and reporting of Progress
 - Monitor site progress in meeting the HPSB approaches and goals set forth in the DOE SBIP and site-specific Executable Plans, and submit progress report (Annual update) to OMB/OFEE for the January 2010 Environmental Stewardship Scorecard.
- Continue tracking and reporting on DOE progress in achieving the sustainable building goals of EO13423 and DOE O 430.2B by (1) inputting results of the EBAT building-level evaluations into FIMS and the FRPP, which serve as central locations for tracking Departmental progress in meeting the 15%-by-2015 goal, and rolling up results to the program level for performance reporting, and (2) submitting the information to OMB/OFEE on the Environmental Stewardship Scorecard.
- Continue implementing the HPSB principles in all new construction

- As of September 30, 2008, the candidate inventory consisted of 4,917 buildings (78,654,488 gsf).
- Data on existing building inventory conformance with HPSB principles was provided in DOE's 2008 Federal Real Property Profile (FRPP) Report, established by the Federal Real Property Council.
- In October 2008, DOE's Office of Legacy Management's Visitors Center in Fernald, Ohio, achieved LEED Platinum certification. This building is the first in Ohio, the second in the DOE complex, and one of only 100 worldwide to obtain LEED platinum certification. http://www.energy.gov/6655.htm
- In October 2008, the Nevada Site Office received LEED Silver Certification under New Construction for its Building B3 Remediation and Upgrade.
- A list of LEED-certified buildings is available at http://www.hss.energy.gov/pp/DO
 E_LEED_Buildings_120308.xls
- The National Renewable Energy Laboratory (NREL) prepared the LEED platinum registration for its Research Support Facility. This 210,000 square-foot facility is

projects and attain LEED Gold certification (or greater) for all new construction and major building renovations in excess of \$5 million. Also, continue efforts to incorporate HPSB principles in leases.

- Continue HPSB training and outreach to DOE sites, including:
- Expanding the Certified Project Managers training course to include HPSB and to provide project manager training for the acquisition of capital assets including new construction and major renovation.
- Continue making HPSB presentations at DOE and other Federal agency symposia, workshops and seminars, such as the August 2009 Integrated Safety Management System (ISMS) Summit.
- Continue updating DOE HPSB website to add lessons learned and best practices from DOE sites.
- Maintain High Performance Federal Building Database.
- Evaluate the feasibility of adding sustainability fields to DOE's Project Assessment Reporting System (PARS) – the system that contains information on the

- planned to be a model for sustainable, high-performance building design, and will provide LEED Platinum DOE-owned work space for staff who currently occupy non-LEED certified leased space in a nearby office park.
- Construction of the LEED-platinum designed 108,000-gsf Morgantown Technology Support Facility (TSF) at NETL was completed in August 2008. The energy-star-approved office building uses natural lighting and a vegetative roofing system that includes capture of rainwater for use throughout the facility. NETL is awaiting final USGBC review for platinum certification.
- In 2008, DOE sites prepared executable plans that contain specific language requiring all procurement specifications and selection criteria for acquiring new leased space, including build-tosuit lease solicitations, contain a preference for LEED gold certified buildings.
- Examples of site-specific HPSB leasing progress include:
- NREL leased 26,926 square feet of LEED-Gold office space at the Golden Hill Office Complex located approximately 2 miles from the Administration Support Offices in the Denver West Office Complex. The lease

	Department's new construction and major renovation projects.	agreement began in November 2008 and ends in 2013. Kansas City Plant operation is scheduled to move to a new building leased by GSA in 2012. The site development and building specifications require that the new building attain LEED Gold certification with an emphasis on water conservation and energy efficiency.	
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Metric #4

- Electronic stewardship (ES):
 _✓_Acquires ≥ 95% EPEAT-registered electronics; enables
 Energy Star features; extends
- life & uses sound disposition practices (G)
- ____Has ES plan & on track to implement goal by 2010 (Y)

Actions taken since January 1, 2009:

- EO 13423 Annual Progress Report on Sustainable Acquisition, Recycling and Pollution Prevention Practices issued (2/18/09), highlighting DOE purchases of recycled-content products, expansion of biobased-content product purchasing, EPEATregistered electronics purchasing, and solid waste diversion (recycling) in FY08.
- 96% of DOE computer purchases were environmentally preferable electronics,
- 95% of DOE sites employ computer power management practices, and
- 98% of surplus and end-of-life electronics were reused or recycled, respectively.
- Using the FEC 2.0 Electronics Benefits Calculator, DOE estimates that its FY 2008 green computing efforts saved \$16,000,000 in energy costs and prevented the release of 33 million Kg of GHG emissions (CO₂).
- In February, DOE submitted to the Federal Electronics
 Challenge (FEC) an Agency Annual Report as well as Facility Reports for all major DOE sites, including both FEC partner and

- DOE's Chief Information Officer (CIO) issued a memorandum entitled Federal Electronics Challenge (FEC) to DOE sites on the Department's commitment to improving life-cycle management of electronic assets, and encouraging all sites to participate as FEC "Partners (06/20/05).
- DOE Order 450.1 Chg 2 Environmental Protection Program (12/07/05) established Sustainable Environmental Stewardship goals to be achieved Department-wide. The Order required incorporation of the goals into Environmental Management Systems (EMSs) and specifies electronics stewardship strategies for achieving the goals, including procurement of environmentally preferable electronics, enabling electronics power management capabilities, reusing surplus electronics, and recycling of endof-life electronics.
- On June 4, 2008, the Deputy Secretary of Energy approved DOE Order 450.1A, Environmental Protection Program, establishing new sustainable environmental stewardship goals for the Department, including an electronics stewardship goal, and integrating EO 13423 sustainable

- non-partner facilities for all sustainable electronic stewardship practices.
- Continued outreach and education programs on the implementation of electronics stewardship at DOE sites.
- DOE conducted monthly conference calls with DOE information technology specialists, procurement professionals, property management personnel, and environmental sustainability coordinators; and promoted Department-wide participation in the 2009 Electronics Reuse and Recycling Campaign. DOE also conducted onsite assistance visits to four sites: Lawrence Berkelev National Laboratory, Lawrence Livermore National Laboratory, Stanford Linear Accelerator Center National Laboratory, and the Strategic Petroleum Reserve.
 - In June, DOE HQ and site representatives chaired sessions and/or made presentations on Electronic Stewardship at the Federal Environmental Symposia (FES) West and East. Four such presentations were made at the FES West and three at FES East.
- Continued to provide Federal

- electronic stewardship practices and goals into EMSs at DOE sites. http://www.directives.doe.gov/pdfs/doe/doetext/neword/450/o450 http://www.directives.doe.gov/pdfs/doe/doetext/neword/450/o450 http://www.directives.doe.gov/pdfs/doe/doetext/neword/450/o450 http://www.directives.doe.gov/pdfs/doe/doetext/neword/450/o450 http://www.directives.doe.gov/ http://www
- DOE Headquarters is an active member of the Federal Electronics Stewardship Work Group (FESWG) participating in all monthly meetings since its 2005 inception.
- DOE Electronics Stewardship Implementation Plan, first issued in 2006, identified departmental actions for implementing the commitments set forth in the Memorandum of Understanding (MOU) Promoting Stainable Environmental Stewardship of Federal Electronic Assets.
 - Updated in 2007 to reflect ownership under the newly established Office of Health, Safety, and Security (HSS), and the electronic stewardship requirements of EO 13423.
- Expanded outreach and education on the integration of electronics stewardship into DOE site EMSs, conducting multiple day, on-site workshops at Brookhaven and Idaho National Laboratories in 2006, providing electronics stewardship presentations at the CIO Cybersecurity National Conference, the Federal

leadership in electronics stewardship on the Federal Electronics Stewardship Working Group (FESWG). DOE served as Federal representative to the EPEAT Advisory Board, and presented on electronics stewardship at the DOE 2009 OCIO Information Management Conference, FESWG meetings, and other venues.

 DOE replaced more than 12,000 computers over the past two years with "Thin Client" computing stations, which reduced associated energy usage by 35-40%, doubled the life-span of the equipment, and significantly reduced maintenance and operations needs. Many of the stations were rebuilt ex-PCs, "recycling" existing DOE equipment.

On June 8, DOE convened a meeting with Federal Energy Management Program and Environmental Protection Agency (EPA) representatives to discuss DOE support for the EPEAT and to review the reprogramming of resources to expedite a new, international energy-efficiency standard for data center servers. On June 9 and 10, DOE participated as the Federal Consumer Representative on the EPEAT Board of Advisors meeting at EPA, which included discussions on DOE

Electronics Challenge (FEC)
Conference in 2007, and the DOE
EMS Workshop that followed the
2008 Federal Environmental
Symposium and the 2008 OCIO
Information Conference.

- DOE representatives on the FESWG have held multiple educational meetings on the FEC and DOE's commitments under EO 13423 and DOE Order 450.1A with the Department's CIO representatives, procurement specialists, and property management personnel.
- DOE's Offices of the CIO and Federal Energy Management Program have implemented best management practices to reduce energy consumption at Headquarters, including:
 - After-hours shut down of noncritical electronics and electrical equipment in coordination with network security.
 - ENERGY STAR® power management features set as network default.
 - Employee instructional material provided on energy conservation.
- DOE Office of the CIO established EPEAT registration (environmentally preferable

sponsorship of an EPEAT energy efficiency standard for servers.

- Electronics Stewardship
 Recognition: In June, DOE-HQ and
 11 DOE sites received Federal
 Electronics Challenge Awards at
 the West and East Federal
 Environmental Symposia, including
 BNL, INL, Paducah, Portsmouth,
 NREL, Fermilab, SPR, Idaho
 Clean-up Project, Y-12, SLAC NAL,
 and SNL-NM
- Developed and submitted for internal review draft Implementation Guide for Integrating Sustainable Practices into Environmental Management Systems, including sustainable electronic stewardship practices, pursuant to DOE Order 450.1A.
- In June, issued DOE Acquisition Letter, Greening Considerations under Awards Using American Recovery and Reinvestment Act (ARRA) of 2009 Funding (AL-2009-08) to ensure that all contracts where ARRA funded work is performed on a DOE covered workplace, contain sustainability requirements, including the incorporation of electronic stewardship practices for purchase, use and disposition of electronic assets into DOE's ARRA funded projects. http://management.energy.gov/doc uments/AL2009-08.pdf

- electronics) as a procurement requirement in its FY 2007 and 2008 acquisition of Headquarters electronics (desktop computers, notebooks, and monitors).
- DOE Acquisition Letter, Environmentally Preferable Purchasing Through the Use of the Electronic Product Environmental Assessment Tool (EPEAT) (AL-2007-08) issued on DOE contractor purchasing of environmentally preferable electronics, and specification of EPEAT-registered products in DOE acquisition contracts (04/27/07).
- In August 2008, DOE reached a precedent-setting agreement with the Federal Electronics Challenge to share green procurement. operations, and recycling data from the DOE Pollution Prevention Tracking and Reporting System (PPTRS) for 2008 and subsequent vears. This annual data harvest from all DOE sites will now be utilized for FEC annual reporting, reducing administrative burdens for DOE facilities. DOE will become the first federal agency to report agency- wide data totals as an FEC Agency Partner.
- A revised Information Brief on Implementing Electronics
 Stewardship at DOE Facilities was

Planned actions for next six months:

- Conduct annual Pollution
 Prevention Tracking and Reporting
 System (PPTRS) data call
 covering Department-wide
 purchases of environmentally
 preferable products, and solid
 waste diversion in FY 2009,
 including EPEAT-registered
 electronics purchasing, and
 recycling of end-of-life electronics.
 - Continue evaluation and consultation with sites on Electronic Stewardship information received from the annual data call.
- Continue to upgrade and enhance the PPTRS to further improve and refine data collection from DOE sites for FEC, OFEE, and OMB reporting purposes, and to improve the system's analytical capabilities.
- Analyze (1) the 2008 PPTRS performance data and (2) the findings from the May 2009 DOE Report from the Office of the Inspector General, Department of Energy Efforts to Manage Information Technology Resources in an Energy-Efficient and Environmentally Responsible Manner, (which found that several DOE sites have not taken full advantage of opportunities to

- issued to the DOE Complex in October 2008. This Information Brief highlights sustainable practices and goals of EO 13423 and DOE-Order 450.1A and describes the expand performance reporting under DOE's equivalent electronics stewardship program. http://www.hss.doe.gov/nuclearsafety/nsea/oepa/guidance/p2/electronics_stewardship.pdf.
- DOE has won the Federal Electronics Reuse and Recycling Campaign (ERRC) Agency Award for three years in a row (2006-2008). DOE participation in the 2008 ERRC increased from nineteen to twenty-one sites. DOE sites have won nine national facility awards for recycling the most electronics in their facility categories during the ERRC.
- Seven DOE sites were recognized by the FEC with awards in 2008: Silver Awards to the Brookhaven National Laboratory and the National Renewable Energy Laboratory and Bronze Awards to the Fermi National Accelerator Laboratory, the Idaho National Laboratory, the Paducah Site, the Portsmouth Gaseous Diffusion Plant, and Sandia National Laboratories/New Mexico.
- DOE Headquarters received a 2007 White House Closing-the-

reduce energy consumption through power management of IT resources), to identify site-specific obstacles and assistance opportunities for continuous electronics stewardship improvement.

- Submit the Implementation Guide for Integrating Sustainable Practices, including electronics stewardship, into Environmental Management Systems to the Department's formal comment and review process, and publish the Guide in the DOE Directives System (2009).
- Update and expand the DOE Electronic Stewardship Implementation Plan, for completion by the end of 2009.
- Continue outreach and education programs on the implementation of electronics stewardship at DOE sites. Conduct monthly conference calls with DOE IT, acquisition, property management, and EMS staff; promote Department-wide participation in the Electronics Reuse and Recycling Campaign; and recruit new members for the FEC. Outreach will highlight providing assistance to sites on sustainable practices, particularly regarding power management.

Circle Award for "Green Electronics Partners", the first award given in the new electronics stewardship category.

 DOE headquarters presented seven Pollution Prevention (P2) and EStar Awards from 2006 through 2008 to different DOE sites for sustainable environmental stewardship of Federal electronic assets.

	Expand field participation in the FY 2009 Electronics Reuse and Recycling Campaign (ERRC) program to more than 25 sites by end of FY 2009.	
	Continue collaboration among EPA, DOE and FEMP regarding the review and programming of resources to expedite a new EPEAT energy efficiency standard for servers over a two year period.	

Six Month Progress Report (January - June, 2009)