



U.S.
Department
of Education
Strategic
Sustainability
Performance
Plan

**U.S. Department of Education Strategic Sustainability Performance Plan
June 30, 2011**

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Section 1 – Agency Policy and Strategy

I. Agency Policy Statement

Agency Policy

It is the U.S. Department of Education’s (ED) policy to integrate sustainability¹ into our operations, facilities, and overall mission in such a manner to:

- *Comply fully with all relevant Federal, State, and local energy and environmental laws and regulations, including Executive Orders.*
- *Consider environmental impacts when making planning, purchasing, and operating decisions.*
- *Work continuously to improve our environmental performance.*
- *Provide training to educate our employees and others working in ED office space to be environmentally responsible on the job.*
- *Establish environmental objectives and targets for performance, and conduct regular internal evaluations to determine progress.*
- *Adhere to the waste management hierarchy (in order of preference): source reduction and reuse, recycle/composting, energy recovery, treatment, and disposal.*
- *Work cooperatively with all of our stakeholders to further common environmental objectives.*

Highlights of Significant Successes and Challenges

Over the past several years, ED has focused increased attention on its environmental impacts and has taken steps to address them through initiatives such as establishment of a green purchasing program, development and implementation of an electronic stewardship plan ensuring procurement of Electronic Product Environmental Assessment Tool (EPEAT)-certified computers and monitors, and installation of energy efficient lighting and water efficient equipment.

Because ED is a tenant in all of the buildings it occupies, and energy, water, and waste management services are all included in our leases and thus paid by the General Services Administration (GSA), we are not intimately involved in monitoring our energy, water, and waste services nor do we currently have major influence in effecting change in these areas. This relationship represents our greatest challenge in reducing energy use and associated Greenhouse Gas (GHG) emissions, reducing water use, minimizing waste generation, and increasing recycling. Currently, ED staff participates in the Federal Working Group on GHG Accounting and Reporting and the Leased Building Assets Subgroup. The Leased Buildings Assets Subgroup, chaired by GSA, is developing options on GHG accounting in leased assets for a recommendation to the Council on Environmental Quality (CEQ). ED staff will continue to work closely with GSA to monitor and affect change in these service areas.

ED has a number of projects in progress that further exemplify our commitment to incorporating sustainability in our activities, services, and mission:

¹ Executive Order 13514 (*Federal Leadership in Environmental, Energy, and Economic Performance*, October 5, 2009) defines “sustainability” and “sustainable” as follows: to create and maintain conditions, under which humans and nature can exist in productive harmony, that permit fulfilling the social, economic, and other requirements of present and future generations.

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- In May, 2011 ED joined the U.S. Department of Energy and the National Science Teachers Association in announcing the launch of a new energy education initiative: [America's Home Energy Education Challenge](#). This initiative is working to educate America's youth about the benefits of energy efficiency, motivate students to play an active role in how their families use energy, and help families across the country save money. The program will encourage students, teachers, and families to learn more about energy consumption and efficiency and become more aware of how homes, schools, and utilities are interconnected within the community, while inspiring students to pursue studies in science, technology, engineering, and mathematics.
- In April, 2011 ED announced the creation of the [Green Ribbon Schools](#) initiative to recognize schools that are creating healthy and sustainable learning environments and teaching environmental literacy. The Green Ribbon Schools initiative reflects the Administration's commitment to reducing GHG emissions, increasing energy efficiency, and preparing today's students for jobs in fields that provide clean energy solutions. The awards will be administered by ED with the support of the CEQ and the U.S. Environmental Protection Agency (EPA).
- The FY 2012 President's Budget continues support for [Environmental Education](#). Environmental Education is included in the "Well-Rounded Education" component of the \$835 million fund for "[Effective Teaching and Learning for a Complete Education](#)." Well-Rounded Education would receive \$246 million under the budget, and the Administration's ESEA reauthorization blueprint would consolidate eight current authorities and expand support for the subjects important to a complete curriculum, including history, the arts, foreign languages, environmental education, and economic and financial literacy.
- In September 2010, ED hosted a [Summit on Education for a Green Economy](#). The central question that the Summit addressed was what role does education, particularly higher education, have to play in the transition to a Green Economy. The Summit brought together leaders from higher education, business and industry, labor, government, and nongovernmental organizations to build shared visions and strategies for education's role in creating a sustainable and green economy.

Secretary Duncan has spoken of the campaign to transform education in America as our generation's moon shot. Nowhere in the field of education is this truer than the drive to equip new generations to be environmentally literate citizens, responsible energy consumers, and successful leaders in the new green economy. On a daily basis, we ask students across the nation to demonstrate excellence, integrity, and leadership in the classroom, and in return, the Federal Government must do the same. The U.S. Department of Education is committed to demonstrating leadership in sustainability.

II. Sustainability and the Agency Mission

The overall mission of ED is to promote student achievement and preparation for global competitiveness by fostering educational excellence and ensuring equal access. In particular, ED seeks to:

- Strengthen the Federal commitment to assuring access to equal educational opportunity for every individual;

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- Supplement and complement the efforts of states, the local school systems and other instrumentalities of the states, the private sector, public and private nonprofit educational research institutions, community-based organizations, parents, and students to improve the quality of education;
- Encourage the increased involvement of the public, parents, and students in Federal education programs;
- Promote improvements in the quality and usefulness of education through Federally supported research, evaluation, and sharing of information;
- Improve the coordination of Federal education programs;
- Improve the management of Federal education activities; and
- Increase the accountability of Federal education programs to the President, the Congress, and the public.

Efforts such as the new energy education initiative, [America's Home Energy Education Challenge](#), described earlier support sustainability and the agency mission by encouraging the increased involvement of the public, parents, and students in Federal education programs while supporting families' efforts across the country to reduce energy waste in their homes and inspiring the next generation of America's energy leaders. By inspiring students to pursue studies in science, technology, engineering, and mathematics (STEM), this new initiative supports ED's overall mission to promote student achievement and preparation for global competitiveness and complements the three overarching priorities for STEM education necessary for laying a new foundation for America's future prosperity identified by President Obama. Specifically, increasing STEM literacy so all students can think critically in STEM subjects; improving the quality of math and science teaching so American students are no longer outperformed by those in other nations; and expanding STEM education and career opportunities for underrepresented groups, including women and minorities.

ED continues its commitment to exploring other potential opportunities for integrating sustainability into our mission, including incorporation of provisions for sustainable building design in grants and loans targeted for infrastructure improvements at academic institutions and prioritizing grants to career and technical schools and community colleges that offer curricula in "green" education programs. The recently announced [Green Ribbon Schools](#) initiative will incentivize and recognize K-12 schools for developing healthier, environmentally sustainable learning spaces and environmental literacy. ED and federal partners will reward energy conservation achievements.

Through the use of email and other communication means (described later in this document), ED employees are advised about opportunities to improve their environmental footprint both at work and home. ED maintains its cell phone recycling campaign where to date employees have contributed nearly 125 pounds of cell phones and accessories for recycling/reuse. In addition, ED continues its distribution of desk-side paper recycling boxes to further encourage individual employees to recycle waste paper. Building on the success of ED's efforts to "green" its cafeteria in headquarters (compostable tableware and installation of Energy Star-rated equipment); ED has introduced the sale of reusable beverage containers with the ED logo per the suggestion of an ED employee. ED will continue to engage employees in similar efforts designed to further integrate sustainability in carrying out our mission.

While not required for ED, we have developed a draft environmental management system (EMS) that could serve to consolidate our environmental programs and procedures in one place and to help us proactively address our environmental footprint associated with our activities, products, and services. This sustainability plan will function in conjunction with and be driven by the EMS. Currently, our EMS,

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focuses on four buildings in the Washington, DC metropolitan area that house the majority of ED employees – Lyndon Baines Johnson (LBJ) Federal Building, Union Center Plaza, Potomac Center Plaza, and Mary E. Switzer (MES) Federal Building (currently under renovation). In the future, our intent is to expand the scope of the EMS to include other Washington, DC offices, regional and field offices.

As a result of leasing all buildings from GSA, ED is limited in our ability to define ED’s baseline and set goals for future improvements in critical areas such as water, energy, building design and construction, waste water management, and waste management. However, our strategy is to partner with GSA to gain the baseline data on ED’s environmental footprint as it relates to the buildings we occupy. Beyond working with GSA, the only other limitation that could inhibit or challenge our ability to increase sustainability would be existing federal requirements that could limit our ability to set conditions on grants and loans to ensure sustainable approaches are taken by grant/loan recipients.

Summary Table – Agency Size and Scope of Operations

Total # Employees	4,348
Total Acres Land Managed	0
Total # Facilities Owned	0
Total # Facilities Leased (GSA lease)	26
Total # Facilities Leased (Non-GSA)	0
Total Facility Gross Square Feet (GSF)	1,895,666 rsf
Operates in # of Locations throughout U.S.	14
Operates in # of Locations outside of U.S.	0
Total # Fleet Vehicles Owned	0
Total # Fleet Vehicles Leased	99
Total # Exempted-Fleet Vehicles (Tactical, Emergency, Etc.)	85
Total Operating Budget FY 2010 (\$MIL)	\$1,436m
Total # Contracts Awarded FY 2010	1,517
Total Amount Contracts Awarded FY 2010 (\$MIL)	\$195m
Total Amount Spent on Energy Consumption FY 2010 (\$MIL)	N/A
Total MBTU Consumed per GSF	N/A
Total Gallons of Water Consumed per GSF	N/A
Total Scope 1&2 GHG Emissions (Comprehensive) FY 2008 Baseline MMTCO ₂ e	232
Total Scope 1&2 GHG Emissions (Subject to Agency Scope 1&2 Reduction Target) FY 2008 Baseline MMTCO ₂ e	0
Total Scope 3 GHG Emissions (Comprehensive) FY 2008 Baseline MMTCO ₂ e	14,965
Total Scope 3 GHG Emissions (Subject to Agency Scope 3 Reduction Target) FY 2008 Baseline MMTCO ₂ e	14,788

III. Greenhouse Gas Reduction Goals

The Federal Greenhouse Gas Accounting and Reporting Guidance (October 6, 2010) states that "If an agency leases space from GSA, where GSA owns the facility, and the agency does not directly pay energy bills, GSA is responsible for reporting the emissions associated with those energy bills. For such leases with a private landlord, agencies may voluntarily report the emissions as Scope 3. Therefore, if an agency space is leased in this manner and the agency does not pay any energy bills, the agency is not required to report any related energy emissions at this time." At the time that ED submitted Scope 1 and 2 greenhouse gas reduction targets (in January 2010), we were paying utilities in two buildings and thus

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showed CO2 emissions for our baseline and our 2020 target. At present, ED no longer occupies these buildings and no longer includes them in our inventory.

In addition, while our January 2010 Scope 1 and 2 submission indicated emissions and targets for fleet vehicles, we have since concluded that we are exempt from these requirements because the majority of our fleet is considered law enforcement vehicles and the number of non-exempt vehicles is under the reporting threshold amount of twenty vehicles. Thus, our 2020 Scope 1 and 2 GHG emissions target became zero, which we met by virtue of vacating the two aforementioned buildings and being exempt from the fleet vehicle requirements. Nevertheless, as previously discussed, ED plans to work closely with GSA to understand baseline and set goals for reducing solid waste generation, energy, and water use in buildings where we are the primary tenant. We also plan to continue tracking fleet vehicle use of alternative fuels and reduction in use of petroleum.

ED's Scope 3 greenhouse gas emissions and targets include: employee commuting, employee business ground and air travel; contracted wastewater treatment; contracted municipal solid waste disposal; and operation of our shuttle bus system in the Washington, DC metropolitan area. Because transmission and distribution losses are tied to GSA-purchased energy and solid waste management services are contracted through GSA, GSA will account for any associated Scope 3 emissions in their targets. In the FY 2010 Sustainability Plan we had estimated total Scope 3 emissions equal to approximately 5,808 mtCO₂e. We proposed a three percent reduction or 174 mtCO₂e by 2020. With the completion of an ED commuter survey in conjunction with our GHG Inventory, we have revised our FY 2008 baseline Scope 3 target to 14,788 mtCO₂e. ED intends to achieve Scope 3 reduction targets through a combination of increasing use of flexiplace and/or alternative work schedule (where appropriate) and encouraging the use of audio, video and web conferencing for certain meetings. In FY 2010, ED's Scope 3 total was 14,229 mtCO₂e.

IV. Plan Implementation

The Department of Education will employ a variety of means to ensure that the Sustainability Plan is effectively implemented. First, ED has begun drafting a Departmental Directive that will formalize the Sustainability Plan as Agency policy and will be communicated to all ED employees. The Directive will include at least the following sections as they relate to the implementation of the Sustainability Plan: applicability, definitions, responsibilities, procedures, and requirements. Second, ED has drafted an EMS that will overlay the Sustainability Plan thereby helping to ensure that the Sustainability Plan and its associated goals are appropriately planned, conducted, checked, and revised accordingly. The specifics of plan implementation are described below:

a) **Internal and External Coordination and Communication** is achieved through a combination of the following for internal purposes: Senior Officer meetings, Executive Officer meetings, periodic progress reports, staff meetings, ED newsletters, and *connectED* (Education's intranet homepage), bulletin board postings, lobby displays (where ED is the major building tenant), and messages on closed-circuit television. With respect to the general public, coordination and communication is handled through ED's Office of Communications and Outreach and ED relies on our internet website (www.ed.gov).

b) **Coordination and Dissemination of Plan to the Field** is achieved primarily through internal means identified in (a) above. Regional and field offices primarily house employees working for

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Federal Student Aid, Office for Civil Rights, and the Office of Inspector General (OIG). These employees are reached through their senior management located in Washington, DC. The Sustainability Plan is being integrated into all existing ED Policy Directives, where appropriate, to ensure that the goals and tenants of the plan are implemented both at headquarters and in the field.

c) **Leadership and Accountability** is incentivized by including appropriate measures in the performance standards for relevant Department staff, including the Senior Sustainability Officer (SSO), environmental/energy manager, fleet manager, real property manager, facility manager, contracting officers, contracting officer representatives, and procurement officers.

d) **Agency Policy and Planning Implementation** is assured through ED’s Office of Planning, Evaluation and Policy Development (OPEPD). OPEPD’s key responsibilities are to develop and review ED policies, perform measurement and evaluation, and develop budget processes and proposals. In so doing, OPEPD coordinates the review of Department-wide policies to ensure consistency with the Secretary’s guidance and the Administration’s goals.

e) **Agency Budget and Policy Integration** is also performed by OPEPD and the budget office housed therein.

f) **Methods for Periodic Monitoring and Evaluation of Progress** are developed by the SSO in conjunction with OPEPD. Generally, metrics are established for baseline and targets and tracked to measure progress. Measurement is possible only where data are available and can be complicated where GSA “owns” the data associated with ED as building tenants. Data are reported as actual and “normalized” to account for eco-efficiencies.

Table 1: Critical Planning Coordination

The purpose of this table is to illustrate the relationship between the Sustainability Plan and other planning and reporting efforts across the agency. This table illustrates opportunities for integrating sustainability requirements into existing planning documents and vice versa. ED is using this table to illustrate how sustainability programs are supported in the appropriate agency planning processes. A response of ‘yes’, ‘no’, or ‘n/a’ in a box indicates whether the Executive Order (EO) goal is relevant to and has been integrated into listed report/plan. ‘Yes’ implies it has been integrated, ‘no’ for not yet integrated, and ‘n/a’ for not applicable.

Originating Report / Plan	Scope 1 & 2 GHG Reduction	Scope 3 GHG Reduction	Develop and Maintain Agency Comprehensive GHG Inventory	High-Performance Sustainable Design / Green Buildings	Regional and Local Planning	Water Use Efficiency and Management	Pollution Prevention and Waste Elimination	Sustainable Acquisition	Electronic Stewardship and Data Centers	Agency Specific Innovation
GPRA Strategic Plan	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agency Capital Plan	Yes	Yes	n/a	Yes	n/a	n/a	n/a	n/a	Yes	n/a
A-11 300's	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Yes	n/a
Annual GHG Inventory and Energy Data Report	n/a	n/a	Yes	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EISA Section 432 Facility Evaluations/Project	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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Originating Report / Plan	Scope 1 & 2 GHG Reduction	Scope 3 GHG Reduction	Develop and Maintain Agency Comprehensive GHG Inventory	High-Performance Sustainable Design / Green Buildings	Regional and Local Planning	Water Use Efficiency and Management	Pollution Prevention and Waste Elimination	Sustainable Acquisition	Electronic Stewardship and Data Centers	Agency Specific Innovation
Reporting/Benchmarking										
Budget	Yes	Yes	n/a	Yes	n/a	n/a	n/a		Yes	n/a
Asset Management Plan / 3 Year Timeline	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Yes	n/a
Circular A-11 Exhibit 53s	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
OMB Scorecards	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DOE's Annual Federal Fleet Report to Congress and the President	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Data Center Consolidation Plan	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Yes	n/a
Instructions for Implementing Climate Change Adaptation Planning	No	No	No	No	No	No	No	No	No	No
Other (reports, policies, plans, etc.)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

V. Evaluating Return on Investment

Projects, initiatives and efforts should be prioritized based on the lifecycle return on investment to the agency while taking into account economic, environmental, social, and mission related costs and benefits. This section describes how ED takes into account both monetary and non-monetary factors when prioritizing projects and initiatives. As directed by the Office of the Federal Environmental Executive (OFEE), this section includes, where applicable, a discussion on various cost and benefit analyses including:

- a. Economic Lifecycle Cost / Return on Investment (ROI)
 - b. Social Costs & Benefits
 - c. Environmental Costs & Benefits
 - d. Mission-Specific Costs & Benefits
 - e. Operations & Maintenance and Deferred Investments
 - f. Climate Change Risk and Vulnerability
 - g. Other, as defined by agency (e.g., security, societal benefit, and deferred maintenance)
-

Economic lifecycle cost/return on investment analysis is usually considered by GSA when improvements are made to ED-occupied buildings since GSA is the lessor responsible for building construction, renovation, and upgrades. ED discusses these investments with GSA and expresses preferences for projects. While ED does not conduct formal cost-benefit analyses, ED does consider factors beyond ROI.

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For example, ED is currently working with GSA to make American Recovery and Reinvestment Act (ARRA)-funded upgrades to the LBJ Federal Building, mostly addressing energy savings. Projects under discussion include a number of measures to enhance building sustainability, including installation of cooling tower variable frequency drives, installation of demand control ventilation and dampers on each air handling unit, upgrade of the existing building automation system to direct digital system, replacement of existing constant volume exhaust and supply fans serving the parking garage with variable speed drives connected to CO sensors, installation of an air-to-air energy recovery system, and installation of occupancy sensors.

ED may employ use of triple bottom line (economic, social, and environmental) cost benefit analysis for other projects occurring in the near future.

VI. Transparency

The Department of Education communicates Sustainability Plan progress and results both within the Agency and to the general public. Internally, ED relies primarily on our intranet website, connectED. Additionally, we will post information in the weekly ED Notebook and the monthly Inside ED newsletter. We also use closed-circuit monitors at strategic locations in our buildings (e.g., the cafeteria at LBJ Headquarters Building) to display information. ED also uses e-mails to alert employees of specific events or achievements related to the Sustainability Plan. With respect to the general public, ED relies on our internet website (www.ed.gov) for communicating progress on the Sustainability Plan. To the extent possible, metrics are displayed graphically for ease in reading and interpreting.

Section 2 – Performance Review and Annual Update

I. Summary of Accomplishments

Below, is a summary of ED's accomplishments and on-going efforts over the past year related to sustainability:

- ED maintained a green rating for both Current Status and Progress on the January 2011 Environmental Scorecard.
- ED joined the U.S. Department of Energy and the National Science Teachers Association in announcing the launch of a new energy education initiative: [America's Home Energy Education Challenge](#).
- ED announced the creation of the [Green Ribbon Schools](#) initiative to recognize schools that are creating healthy and sustainable learning environments and teaching environmental literacy.
- ED hosted a [Summit on Education for a Green Economy](#) that brought together leaders from higher education, business and industry, labor, government, and nongovernmental organizations to build shared visions and strategies for education's role in creating a sustainable and green economy.
- ED continues to work closely with GSA on modernizing the Mary E. Switzer building (on track to Leadership in Energy and Environmental Design (LEED) gold certification) and on a recent contract award for project design to provide energy conservation measures to the LBJ headquarters building. Also, the owner of the Potomac Center Plaza (PCP) location is seeking LEED Good rating for this Energy Star-rated building.
- ED, in coordination with the OFEE, developed an on-line green purchasing training course that is available on demand for all staff requiring such training.
- ED conducted a commuter survey of close to 1,700 employees, with a response rate of over 46%, in support of Sustainability Plan Goal 2.
- ED, in partnership with the GSA, strengthened reporting data as it related to business air and ground travel.
- ED established an internal Environmental Committee.

II. Goal Performance Review

GOAL 1: Scope 1 and 2 Greenhouse Gas Reduction

- a. **Goal Description.** ED established a goal of reducing Scope 1 and 2 GHG emissions by 29% from a 2003 baseline of 3,535 mtCO₂e to 2,505 mtCO₂e in 2020. For goal-subject buildings alone, GHG emissions were projected to be reduced by 30%, from 3,317 to 2,322 mtCO₂e. For covered federal fleet consumption, GHG emissions were expected to be reduced by 16% from 218 to 183 mtCO₂e.
- b. **Agency Lead for Goal.** ED's Office of Management will be responsible for target development, implementation, and oversight.
- c. **Implementation Methods.** When ED submitted its Scope 1 and 2 GHG emissions baseline, utilities were included in rent payments to GSA for all but two buildings – one datacenter and one warehouse. ED has achieved the reduction in goal-subject buildings by eliminating both of these buildings from its inventory in early 2010. Because GSA is responsible for payment of utilities in all remaining buildings in ED's inventory, the OFEE has determined that further reductions in Scope 1 and 2 GHG emissions will be executed and measured by GSA. Where possible, ED will continue to cooperate with GSA to find additional opportunities to lower energy use in ED-occupied buildings.

With respect to fleet vehicles, as of the end of calendar year 2010, ED leases a total of 99 vehicles from GSA, 87 of which are used by the OIG. Because OIG vehicles are considered law enforcement vehicles (85 of the 87), they are exempt from the GHG reduction target. That leaves a total of 14 non-waivered fleet vehicles, which is below the 20 vehicle threshold for reporting. Nevertheless, the Department's non-OIG components will adhere to the Energy Independence and Security Act (EISA 2007) requirement that any new fleet vehicles purchased will be low-GHG-emitting. It is worth noting that 75% of OIG's vehicles are hybrid/alternative fuel vehicles. Additionally, we will continue to work with the OIG to reduce petroleum use in their vehicles by opting for alternative fuels where and when available.

Finally, with respect to the ED shuttle bus service, we continue to investigate opportunities for partnering with other federal agencies in order to optimize shuttle bus operations (e.g., have multiple agencies share shuttle buses where routes are similar or overlap).

- d. **Positions.** Given the fact that this goal is not applicable at this point, ED has adequate FTE coverage for this goal.
- e. **Planning Table [ED entries in BOLD].**

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Table 2. Scope 1 & 2 GHG Targets

	SCOPE 1&2 GHG TARGET	Unit	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	...	FY 20
Buildings	Energy Intensity Reduction Goals (BTU/SF reduced from FY03 base year)	%	15%	18%	21%	24%	27%	30%	...	hold
	Planned Energy Intensity Reduction (BTU/SF reduced from FY03 base year)	%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Renewable Electricity Goals (Percent of electricity from renewable sources)	%	5%	5%	5%	7.5%	hold	hold	Hold	hold
	Planned Renewable Electricity Use (Percent of electricity from renewable sources)	%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fleet	Petroleum Use Reduction Targets (Percent reduction from FY05 base year) ¹	%	10%	12%	14%	16%	18%	20%	...	30%
	Planned Petroleum Use Reduction (Percent reduction from FY05 base year)	%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alternative Fuel Use in Fleet AFV Target (Percent increase from FY05 base year) ¹	%	61%	77%	95%	114%	136%	159%	...	hold
	Planned Alternative Fuel Use in Fleet AFV (Percent increase from FY05 base year)	%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Senior Executive Fleet replaced with Low-GHG, High Efficiency Vehicles (Percent replaced from FY08 base year)	%	–	–	10%	10%	Hold	Hold	Hold	Hold
Other, as defined by agency										
All acquired fleet vehicles must be low-GHG-emitting.	%	100%	Hold	Hold	Hold	Hold	Hold	Hold	Hold	Hold
Total Scope 1 & 2 – GHG Emissions (comprehensive)	MMT CO2e	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Scope 1 & 2 GHG Emissions (Subject to Agency Scope 1&2 GHG Reduction Target)	MMT CO2e	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Overall Agency Scope 1 & 2 Reduction (reduced from FY 08 base year)		100%	Hold	Hold	Hold	Hold	Hold	Hold	Hold	Hold

f. Agency Status. Through removal of the two facilities for which ED was paying utilities, and due to the fact that the majority of ED’s vehicle fleet is exempt from the fleet requirements, ED has effectively met its Scope 1 and 2 GHG emission reduction goals. ED will work with GSA and OIG, respectively, to address emission reductions from ED-occupied buildings and ED fleet vehicles.

g. Return on Investment. Not applicable.

h. Highlights. Not applicable.

GOAL 2: Scope 3 Greenhouse Gas Reduction and Develop and Maintain Agency Comprehensive Greenhouse Gas Inventory

a. Goal Description. ED had established a goal of reducing Scope 3 GHG emissions by 3% from a 2010 baseline of 5,808 mtCO2e to 5,635 mtCO2e in 2020 for a total reduction of 174 mtCO2e.

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However, with the completion of an ED commuter survey in conjunction with our Greenhouse Gas Inventory, we have revised our Scope 3 FY 08 baseline to 14,788 mtCO₂e. ED will use this new baseline as we work toward reducing Scope 3 GHG emissions by 2020. The Department of Education submitted a comprehensive greenhouse gas inventory by January 31, 2011.

- b. **Agency Lead for Goal.** ED's Office of Management is responsible for target development, implementation, and oversight.
- c. **Implementation Methods.** ED's Scope 3 greenhouse gas emissions and targets include: employee commuting; employee business ground and air travel; contracted wastewater treatment; contracted municipal solid waste disposal; and operation of our shuttle bus system in the Washington, DC metropolitan area. Because transmission and distribution losses are tied to GSA-purchased energy and solid waste management services are contracted through GSA, GSA will account for any associated Scope 3 emissions in their targets. With the completion of an ED commuter survey in conjunction with our GHG Inventory, we have strengthened our employee commuting data. With respect to business air travel, ED is now using the GSA TRAX system to provide emissions data; a change from our FY 2010 Sustainability Plan. Contracted wastewater treatment was based on an ED employee count of 4,300.

ED will continue to utilize the following options for commuting: increasing use of telework and/or use of alternative work schedules; encouraging and facilitating ridesharing/carpooling; and/or reducing parking fees for carpools. In addition, ED will comply with the provisions of the Telework Enhancement Act of 2010.

With regard to business air travel, ED will continue to utilize video/teleconferencing where feasible for regularly (physically) convened meetings and/or training classes. Nearly all regional offices currently have video/teleconferencing capability, so the infrastructure is largely in place. Finally, ED will consider developing a Department-wide "green meetings" policy/directive that will consider opportunities for reducing attendee GHG emissions, including those related to travel. Currently, several program offices within ED provide conference materials on flash-drives and reports are on disc or on-line to reduce the use of paper.

Lastly, with respect to GHG emissions from contracted wastewater treatment, ED does not plan to take actions to reduce emissions in this category since the options to reduce emissions in this area would mean either reductions in FTE or minimizing employee use of bathroom facilities, neither of which is a practical solution.

Because ED currently leases all facilities from GSA, ED-related Scope 1 and 2 emissions will be zero unless we can coordinate with GSA in terms of monitoring/measuring our energy use. If we do coordinate with GSA, OFEE will need to ensure that from the standpoint of a national roll-up of GHG emissions, they are not double-counting (i.e., GSA and ED are counting the same emissions). Implementation methods for determining Scope 1 and 2 emissions and Scope 3 emissions are discussed under Goals 1 and 2, respectively.

ED used a quality assurance approach to verify and validate the FY 2008 GHG Inventory and the FY 2010 GHG Inventory. Also, ED used the GSA Carbon Footprint Tool.

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d. **Positions.** ED currently has one employee who is working on the Sustainability Plan as collateral duty as well as fractions of other employees who are contributing to the plan development. In addition, ED will be recruiting for an additional staff member to work full-time on sustainability issues. ED will ensure that it has the resources to implement the Sustainability Plan.

e. **Planning Table.** [ED entries in **BOLD**].

Table 3. Scope 3 GHG Targets

SCOPE 3 GHG TARGET	Units	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	...	FY 20
Total Scope 3 GHG Emissions (Comprehensive)	MMTCO _{2e}	14,229	Hold	Hold	Hold	Hold	Hold		Hold
Total Scope 3 GHG Emissions (Subject to Agency Scope 3 GHG Reduction Target)	MMTCO _{2e}	14,070	14,028	13,968	13,944	13,902	13,860		13,650
Overall Agency Scope 3 Reduction (reduced from FY08 base year)	%								

f. **Agency Status.** ED has established its Scope 3 GHG emission reduction targets using the methodology discussed above. Scope 3 emissions have been calculated and reduction targets set; however, this will be refined in future years as we continue to strengthen data.

g. **Return on Investment.** Not applicable.

h. **Highlights.** Not applicable.

GOAL 3: High-Performance Sustainable Design/Green Buildings and Regional and Local Planning

a **Goal Description.** All ED buildings are currently leased from GSA, where GSA is either the lessor or sublessor. ED commits to work with GSA to achieve compliance with the “Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings (Guiding Principles)” for 100% of major renovation, repair, or alteration of federal buildings in which ED is the main tenant. ED also commits to meet, by 2015, the guiding principles in 15% of building leases where ED occupies at least 5,000 GSF². With the cooperation of GSA, ED will demonstrate use of cost-effective, innovative building strategies to minimize energy, water, and materials consumption so as to achieve a net reduction in agency deferred maintenance costs. As changes to its building inventory warrant, ED, in cooperation with GSA, will seek to optimize its real property portfolio by examining opportunities to decrease environmental impact through consolidation, reuse, and disposal of existing assets before deciding to add new assets. Finally, ED will work with GSA to ensure use of best practices and technology in rehabilitation of historic Federal properties.

² Gross square feet (GSF) is not normally tracked by ED for the purposes of its leased property. Our nomenclature is typically rentable square feet (RSF), which we will use as a surrogate for determining whether ED exceeds the 15% threshold for meeting the Guiding Principles.

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ED does not have an internal directive governing regional and local planning; however, planning policies will be included in the EMS that ED is currently developing. The policies shall commit ED (where appropriate given the number of ED employees in a given area) to participation in regional transportation planning (recognition and use of existing community transportation infrastructure), ensure effectiveness of local energy planning, and incorporate sustainable building location into policy and planning for new leases. In addition, ED will work with GSA (with GSA in the lead as lessor) to ensure that all Environmental Impact Statements and Environmental Assessments required under the National Environmental Policy Act (NEPA) for proposed new or expanded Federal facilities identify and analyze impacts associated with energy usage and alternative energy sources. ED will work with GSA to ensure coordination and (as appropriate) consultation with Federal, State, Tribal, and local management authorities regarding impacts to local ecosystems, watersheds, and environmental management associated with proposed new or expanded Federal facilities. ED will incorporate by reference guidance issued in relation to Section 10 of E.O. 13514 (recommendations for sustainable locations for federal facilities) and Section 11 of E.O. 13514 (recommendations for federal local transportation logistics).

- b. Agency Lead for Goal.** ED's Office of Management will be responsible for sustainable building and regional/local planning target development, implementation, and oversight.
- c. Implementation Methods.** ED's Sustainable Buildings Implementation Plan (SBIP), signed June 15, 2009, is incorporated here by reference and is updated to include the requirements of E.O. 13514 and the objectives of the Sustainability Plan. ED has included in the SBIP its commitment to ensure that, on its behalf, GSA performs new construction and renovation projects that incorporate sustainable practices in the Guiding Principles. ED will ensure that either employees are trained in sustainable building principles or contractors (e.g., LEED AP certified) are available to provide guidance. ED plans to schedule meetings with regional GSA representatives and perform internal reviews of facilities and operations to ensure sustainable practices are being employed. ED also intends to create a "change management" procedure whereby ED facility project leads must complete a form before proceeding with changes to current buildings or relocation to new buildings. The form will include a series of questions regarding potential environmental impacts of any building change requests (e.g., new furniture purchase must be a "green" purchase, new light fixtures must be Energy Star-rated) and how impacts will be mitigated. This will help assure that all project leads are addressing sustainable practices in ED-occupied buildings. Finally, where an existing ED-occupied building lease is up for renewal, we will work with GSA to require, as a key criterion for selecting a new building, that the building meet the Guiding Principles and/or be LEED-certified.
- d. Positions.** ED currently has one employee who is working on the Sustainability Plan as collateral duty as well as fractions of other employees who are contributing to the plan development. In addition, ED will be recruiting for an additional staff member to work full-time on sustainability issues. ED will ensure that it has the resources to implement the Sustainability Plan.
- e. Planning Table [ED entries in BOLD].**

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Table 4. Sustainable High Performance Building Targets

SUSTAINABLE HIGH PERFORMANCE BUILDINGS (Buildings Meeting Guiding Principles)	Units	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	...	FY 20
Owned Buildings	%	N/A	N/A	N/A	N/A	N/A	N/A	...	
FRPP-Reported Leased Buildings	%	0	0	15%	Hold	Hold	Hold	...	Hold
Total Buildings	%	0	0	15%	Hold	Hold	Hold	...	Hold
Regional and Local Planning									

- f. Agency Status.** Two of ED’s major HQ buildings in Washington, DC are undergoing renovation and include the following sustainable building measures: LBJ Federal Building – ARRA projects to include a number of measures to enhance building sustainability, including installation of cooling tower variable frequency drives, installation of demand control ventilation and dampers on each air handling unit, upgrade of the existing building automation system to direct digital system, replacement of existing constant volume exhaust and supply fans serving the parking garage with variable speed drives connected to CO sensors, installation of an air-to-air energy recovery system, and installation of occupancy sensors. MES Federal Building – major renovation/modernization of this building on track for acquiring LEED gold certification.

In addition to inclusion in the EMS of policies and guidance associated with regional and local planning, ED will consider the following opportunities for addressing local ecosystems: organizing employee volunteers to conduct watershed monitoring and/or cleanups, planting of trees, and creation of a “peoples’ garden.” In addition, ED is currently performing site analysis for leasing new property in Phoenix, AZ and is including access to public transportation as a major criterion for building selection. ED is working to map each facility it occupies across the country to determine relationship to regional and local planning concerns. ED is also working with GSA on the MES Federal Building modernization to ensure compliance with the regional and local planning requirements of the Executive Order. This includes agreeing to a reduction in surface parking to allow for an improvement in pedestrian safety, circulation, and aesthetics. Finally, ED will explore the possibility of adding requirements for ED grant recipients that any new construction or major renovations consider regional and local planning aspects.

- g. Return on Investment.** Not applicable.
- h. Highlights.** ED staff actively participates in the National Capitol Planning Commission efforts related to the creation of a Southwest Ecodistrict in Washington, DC.

GOAL 4: Water Use Efficiency and Management

- a. Goal Description.** Because ED leases all building space, ED does not have purview over water use efficiency and management; rather, GSA is lead as the lessor. ED does not have an existing Water Conservation Directive or Plan; however, policies and procedures will be added to the EMS that ED is currently developing. These policies and procedures will commit ED to work with GSA to: reduce potable water use intensity by at least 26% by FY 2020, reduce landscaping water use by at least 20% by FY 2020, identify and implement water reuse strategies, and achieve objectives established by EPA in *Technical Guidance on Implementing the Stormwater*

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*Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act.*³

- b. Agency Lead for Goal.** ED’s Office of Management will be responsible for the water use efficiency and management target development, implementation, and oversight.
- c. Implementation Methods.** In addition to inclusion of policies and procedures in the EMS, ED is working with GSA on the MES Federal Building renovation/ modernization to ensure that stormwater is managed in manner such that runoff will be largely controlled through collection and reuse. GSA also intends to outfit the building with low flow/dual flush toilets and automatic shut-offs for sinks.
- d. Positions.** ED currently has one employee who is working on the Sustainability Plan as collateral duty as well as fractions of other employees who are contributing to the plan development. In addition, ED will be recruiting for an additional staff member to work full-time on sustainability issues. ED will ensure that it has the resources to implement the Sustainability Plan.
- e. Planning Table [ED entries in BOLD].**

Table 5. Water Use Efficiency and Management Targets

WATER USE EFFICIENCY & MGMT	Units	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 20
Potable Water Reduction Targets (gal/SF reduced from FY07 base year)	%	6%	8%	10%	12%	14%	16%	26%
Planned Potable Water Reduction (gal/SF reduced from FY07 base year)	%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Industrial, Landscaping, and Agricultural Water Reduction Targets (gal reduced from FY10 base year)	%	-	2%	4%	6%	8%	10%	20%
Planned Industrial, Landscaping, and Agricultural Water Reduction (gal reduced from FY10 base year)	%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

- f. Agency Status.** ED will continue to work closely with GSA on renovations to the MES Federal Building.
- g. Return on Investment.** Not applicable.
- h. Highlights.** Not applicable.

GOAL 5: Pollution Prevention and Waste Reduction

- a. Goal Description.** ED does not have a Chemical Reduction/Pollution Prevention Plan or Directive in place, but will include related policies and procedures in the EMS currently under development.

³ Section 438 applies to the “sponsor of any development or redevelopment project involving a Federal facility...”The “sponsor” should generally be regarded as the federal department or agency that owns, operates, occupies or is the primary user of the facility and has initiated the development or redevelopment project.” For most if not all ED-occupied buildings, the sponsor would likely be GSA as the lessor.

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In the EMS, ED will commit to work with GSA as appropriate to achieve the following goals: increase source reduction of pollutants and waste; divert at least 50% non-hazardous solid waste by FY 2015, excluding (construction and demolition (C&D) debris); divert at least 50% C&D materials and debris by FY 2015; reduce printing paper use; increase use of uncoated printing and writing paper containing at least 30% postconsumer fiber; reduce and minimize the acquisition, use, and disposal of hazardous chemicals and materials; increase diversion of compostable and organic materials from the waste stream; implement integrated pest management (IPM) and landscape management practices to reduce and eliminate the use of toxic and hazardous chemicals and materials; increase agency use of acceptable alternative chemicals and processes; and, to the extent it applies, decrease use of chemicals to assist in achieving FY 2020 GHG reduction targets [See Section II - 1 and 2 above] and report (as applicable) in accordance with Sections (301-313) of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986.

- b. Agency Lead for Goal.** ED's Office of Management will be responsible for the pollution prevention and waste elimination target development, implementation, and oversight.
- c. Implementation Methods.** In addition to including policies and procedures in the EMS, ED plans to work with GSA to research waste management and recycling methods and metrics for each building where it is a major tenant to determine baseline waste generation and then implement appropriate steps to reduce/eliminate waste generation where possible (note that if ED is a minor tenant in an office building, it may not be possible to develop metrics to understand the success of pollution prevention and elimination actions). ED will begin to manage paper use by tracking purchasing and inventory in all locations. ED currently uses 30% post-consumer recycled paper in all locations, but will explore the possibility (depending on cost and availability) of increasing the percentage of recycled content in office paper. ED intends to institute defaults for duplex printing and double-sided copying. ED will work with GSA to implement integrated pest management where/when appropriate, divert C & D debris generated during building renovations (currently being done in conjunction with the MES Federal Building renovation), and ensure custodial services use "green" cleaning supplies. In addition to EMS general awareness training, ED will provide training for employees to better understand waste management and recycling programs at each location and how they can help increase recycling rates/diversion from landfills.
- d. Positions.** ED currently has one employee who is working on the Sustainability Plan as collateral duty as well as fractions of other employees who are contributing to the plan development. In addition, ED will be recruiting for an additional staff member to work full-time on sustainability issues. ED will ensure that it has the resources to implement the Sustainability Plan.
- e. Planning Table [ED entries in BOLD].**

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Table 6. Pollution Prevention and Waste Reduction

POLLUTION PREVENTION & WASTE REDUCTION	Units	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	...	FY 20
Non-Hazardous Solid Waste Diversion Targets (Non-C&D)	%		Establish Baseline	TBD	TBD	TBD	50%		Hold
C&D Material & Debris Diversion Targets	%		Establish Baseline	TBD	TBD	TBD	50%		Hold
If agency uses on-site or off-site waste-to-energy, estimated total weight of materials managed through waste-to-energy	Tons or pounds	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Number of sites or facilities with on-site composting programs	#	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Number of sites or facilities recycling through off-site composting programs	#	N/A	N/A	N/A	N/A	N/A	N/A		N/A
If agency has on-site or off-site composting programs, estimated total weight of materials diverted to composting	Tons or pounds	N/A	N/A	N/A	N/A	N/A	N/A		N/A
% of agency-operated offices/sites with a recycling program	%	100	Hold	Hold	Hold	Hold	Hold		Hold
If agency offices located in multi-tenant buildings, % of those buildings with a recycling program	%	100	Hold	Hold	Hold	Hold	Hold		Hold
% of agency-operated residential housing with recycling programs	%	N/A	N/A	N/A	N/A	N/A	N/A		N/A

f. Agency Status. ED will continue to work with GSA to divert C & D debris generated during building renovations (currently being done in conjunction with the MES Federal Building renovation), and ensure custodial services use “green” cleaning supplies.

g. Return on Investment. Not applicable.

h. Highlights. Not applicable.

GOAL 6: Sustainable Acquisition

a. Goal Description. Ensure that: (1) 95% of new contract actions, including task and delivery orders under new contracts and existing contracts, require the supply or use of products and

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services that are energy efficient (Energy Star or Federal Energy Management Program (FEMP)-designated), water efficient, biobased, environmentally preferable (excluding EPEAT-registered products), non-ozone depleting, composed of recycled content, or are non-toxic or less toxic alternatives and (2) all Federally-mandated designated products and services are included in all relevant acquisitions.

- b. Agency Lead for Goal.** ED’s Office of Management is the lead Program Office for this goal and will continue to work closely with ED’s Office of the Chief Financial Officer – Contracts and Acquisitions Management staff.
- c. Implementation Methods.** Revise ED’s Green Purchasing Plan as necessary to remain current with any changes to green purchasing requirements. Update green purchasing training as necessary to reflect any changes in green purchasing requirements. ED also plans to review and revise its procedure for conducting green purchasing audits as necessary.
- d. Positions.** The Department is adequately manned for supporting the goals of sustainable acquisition.
- e. Planning Table [ED entries in BOLD].**

Table 7. Sustainable Acquisition

SUSTAINABLE ACQUISITION	Units	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15		FY 20
New Contract Actions Meeting Sustainable Acquisition Requirements	%	–	95%	Hold	Hold	Hold	Hold		Hold
Energy Efficient Products (Energy Star, FEMP-designated, and low standby power devices)	%	–	95%	Hold	Hold	Hold	Hold		Hold
Water Efficient Products	%	–	95%	Hold	Hold	Hold	Hold		Hold
Biobased Products	%	–	95%	Hold	Hold	Hold	Hold		Hold
Recycled Content Products	%	–	95%	Hold	Hold	Hold	Hold		Hold
Environmentally Preferable Products/Services (excluding EPEAT – EPEAT in included in Goal 7)	%	–	95%	Hold	Hold	Hold	Hold		Hold
SNAP/non-ozone depleting substances	%	–	95%	Hold	Hold	Hold	Hold		Hold

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Table 8. Sustainable Acquisition – Contract Review

SUSTAINABLE ACQUISITION CONTRACT REVIEW	1st QTR FY 11	2nd QTR FY 11	3rd QTR FY 11 (Planned)	4th QTR FY 11 (Planned)
Total # Agency Contracts	161	175	150	TBD
Total # Contracts Eligible for Review	4	4	TBD	TBD
Total Contracts Eligible Contract Reviewed (i.e., 5% or more eligible based on previous OMB guidance)*	4	4	TBD	TBD
# of Compliant Contracts	4	4	TBD	TBD
Total % of Compliant Contracts	100	100	TBD	TBD

f. Agency Status. ED has drafted a revised version of the Departmental Directive on Green Purchasing to reflect E.O. 13514. Staff from the Office of Management are working with staff from Contracts and Acquisitions Management on strengthening the contract audit process.

g. Return on Investment. Not applicable.

h. Highlights. Not applicable.

GOAL 7: Electronic Stewardship and Data Centers

a. Goal Description. Establish and implement policy and guidance consistent with goals for government-wide electronic stewardship and data centers.

b. Agency Lead for Goal. ED’s Office of the Chief Information Officer is the lead Program Office for this goal.

c. Implementation Methods. ED’s Electronic Stewardship Plan is in place and has been updated to reflect E.O. 13514.

d. Positions. The Department is adequately staffed for supporting the goals of electronic stewardship and data centers.

e. Planning Table. [ED entries in BOLD].

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Table 9. Electronic Stewardship and Data Centers

ELECTRONIC STEWARDHIP & DATA CENTERS	Unit	FY 10	FY 11	FY 12	FY 13	FY14	FY15
% of electronic product acquisition covered by current Energy Star specifications that must be energy-star qualified	%	90%	90%	95%	hold	hold	hold
% of covered electronic product acquisitions that are EPEAT- registered	%	99%	99%	99%	hold	hold	hold
% of covered electronic product acquisitions that are FEMP- designated	%	95%	95%	95%	hold	hold	hold
% of agency, eligible PC, Laptops, and Monitors with power management actively implemented and in use	%	100%	100%	100%	100%	hold	hold
% of agency, eligible electronic printing products with duplexing features in use	%	95%	95%	100%	100%	hold	hold
% of electronic assets covered by sound disposition practices	%	95%	hold	hold	hold	hold	hold
% of agency data centers independently metered, advanced metered, or sub-metered to determine monthly (or more frequently) Power Utilization Effectiveness (PUE).	%	60%	60%	60%	60%	80%	100%
Reduction in the number of agency data centers	#	0	hold	hold	hold	hold	hold
% of agency data centers operating with an average CPU utilization greater than 65%	%	0%	40%	65%	75%	hold	hold
Maximum annual weighted average Power Utilization Effectiveness (PUE) for agency.	#	1.9	1.8	1.7	1.6	1.5	1.4

- f. Agency Status.** ED is purchasing EPEAT products at 100%; power management is enabled in 100% of computers, laptops, and monitors; environmentally sound management practices at end-of-life are always used; and ED has an OMB-approved data center consolidation plan. ED will continue to work with its Information Technology contractor on instituting defaults for duplex printing and double-sided copying.
- g. Return on Investment.** Not applicable.
- h. Highlights.** ED was awarded the 2010 Federal Electronics Challenge Bronze Level Award for its excellence in operations and maintenance activities.

GOAL 8: Agency Innovation and Government-wide Support

- a. Goal Description.** ED will explore opportunities to innovate outside the requirements of the Sustainability Plan. Examples are listed below.

(1) Leverage ED resources to influence environmental improvements by our customers by including, sustainability requirements (where permissible) in ED-issued loans/grants. For example, where ED issues grants/loans for construction of new facilities or renovation of existing facilities, ED could include as a grant requirement that decisions about retaining existing schools and where to locate new schools consider the needs of the surrounding communities to take advantage of existing resources/infrastructure (e.g., roads and sewers) and to allow students and families to walk or bike to school to reduce GHG emissions.

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The recently announced [Green Ribbon Schools](#) initiative will incentivize and recognize K-12 schools for developing healthier, environmentally sustainable learning spaces and environmental literacy. ED and federal partners will reward energy conservation achievements. Specifically, collaborate with EPA to promote green education (as referenced in ED’s FY 10 Sustainability Plan.

(2) Working to educate America’s youth about the benefits of energy efficiency, motivate students to play an active role in how their families use energy, and help families across the country save money, ED joined the U.S. Department of Energy and the National Science Teachers Association in announcing the launch of a new energy education initiative: [America’s Home Energy Education Challenge](#). The program will encourage students, teachers, and families to learn more about energy consumption and efficiency and become more aware of how homes, schools, and utilities are interconnected within the community, while inspiring students to pursue studies in science, technology, engineering, and mathematics.

(3) Continue to work with our computer contractor to collect, refurbish, and distribute computers, printer, and monitors to school districts in need.

- b. Agency Lead for Goal.** ED’s Office of Management will be responsible for target development, implementation, and oversight.
- c. Implementation Methods.** ED’s Office of Management will lead these efforts out of HQ’s central office and will work with other ED offices and federal agencies as necessary to achieve the goals.
- d. Positions.** ED currently has one employee who is working on the Sustainability Plan as collateral duty as well as fractions of other employees who are contributing to the plan development. In addition, ED will be recruiting for an additional staff member to work full-time on sustainability issues. ED will ensure that it has the resources to implement the Sustainability Plan.
- e. Planning Table [ED entries in BOLD].**

Table 10. Agency Innovation and Government-wide Support

Agency Innovation and Government-Wide Support	Units	FY 10	FY 11	FY 13	FY 20
Programs, Projects, Initiatives that support Gov-wide efforts	N/A	-	Continue work with EPA and DOE	TBD	TBD	TBD

- f. Agency Status.** The Green Ribbon Schools program is in development. Applications will be released later this year and the first group of winners will be announced in 2012.
- g. Return on Investment.** Not applicable.
- h. Highlights.** Not applicable.

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Section 3 – Agency Self-Evaluation

For all agencies: Please answer ‘yes’ or ‘no’ to the following 5 key questions. If the answer is ‘no’, please provide an explanation in the accompany text.

Does your Sustainability Plan incorporate and align sustainability goals, GHG targets and overarching objectives for sustainability with the Agency Strategic Plan?	Y
Does it provide annual targets, strategies and approaches for achieving the 2015 and 2020 goals?	Y
Is the Sustainability Plan consistent with the FY2012 President’s Budget?	Y
Does the Sustainability Plan integrate all statutory and Executive Order requirements into a single implementation framework for advancing sustainability goals along with existing mission and management goals, making the best use of existing and available resources?	Y
Does your plan include methods for obtaining data needed to measure progress, evaluate results, and improve performance?	Y

Other Key Questions for 2011:

1. Did your agency meet by 12/30/10 due date and/or is it now able to demonstrate comprehensive implementation of the EO 13423 Electronic Stewardship goals?

- Acquire at least 95% EPEAT-registered electronics
- Enable energy star or power management features on 100% of eligible PCs
- Extends the life and/or uses sound disposition practices for its excess or surplus electronics

Answer: Yes.

2. Is your agency tracking and monitoring all of its contract awards for inclusion of requirements for mandatory federally-designated green products in 95% of relevant acquisitions?

Answer: Yes.

3. Has your agency completed energy evaluations on at least 75% of its facilities?

Answer: Not applicable for Education. ED is a tenant in all of the buildings it occupies

4. Will your agency meet the deadline of October 1, 2012 (EPACT’05 Sec 103) for metering of energy use?

Answer: Not applicable for Education. ED is a tenant in all of the buildings it occupies.

5. If your agency reports in the FRPP, will it be able to report by December 2011 that at least 7% of its inventory meets the High Performance Sustainable Guiding Principles?

Answer: Not applicable for Education. As stated earlier, ED commits to work with GSA to achieve compliance with the “Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings for 100% of major renovation, repair, or alteration of federal buildings in which ED is the main tenant. ED also commits to meet, by 2015, the guiding principles in 15% of building leases where ED occupies at least 5,000 GSF.

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Appendix 1: Acronyms and Abbreviations

AFV	Alternative Fuel Vehicle
ARRA	American Recovery and Reinvestment Act of 2009
C&D	Construction and Demolition
CEQ	Council on Environmental Quality
CIO	Chief Information Officer
DOE	U.S. Department of Energy
ED	U.S. Department of Education
EISA	Energy Independence and Security Act
EMS	Environmental Management System
EO	Executive Order
EPA	Environmental Protection Agency
EPAAct	Energy Policy Act
EPCRA	Emergency Planning and Community Right-to-Know Act
EPEAT	Electronic Product Environmental Assessment Tool
ESPC	Energy Services Performance Contract
FEMP	Federal Energy Management Program
FTE	Full Time Employee
FY	Fiscal Year
gal	Gallon
GHG	Greenhouse Gas
GSA	General Services Administration
GSF	Gross Square Feet
IT	Information Technology
LBJ	Lyndon Baines Johnson Department of Education Federal Building
LEED	Leadership in Energy and Environmental Design
MES	Mary E. Switzer Memorial Federal Building
mtCO ₂ e	Metric tons of Carbon Dioxide Equivalent
NEPA	National Environmental Policy Act
OCIO	ED Office of the Chief Information Officer
OFEE	Office of the Federal Environmental Executive
OIG	ED Office of Inspector General
OM	ED Office of Management
OMB	Office of Management and Budget
OPEPD	ED Office of Planning, Evaluation & Policy Development
PO	ED Principal Office
ROI	Return on Investment
SBIP	Sustainable Buildings Implementation Plan
SF	Square Feet or Square Footage
SNAP	Significant New Alternatives Policy
SSO	Senior Sustainability Officer
STEM	Science, Technology, Engineering, and Mathematics