

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

# 2018 Sustainability Report & Implementation Plan

Report to the White House Council on Environmental Quality (CEQ) and Office of Management and Budget (OMB)

**SEPTEMBER 14, 2018** 

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#### **Executive Summary**

This is the Department of Energy's (DOE or Department) action plan to carry out Executive Order 13834, *Efficient Federal Operations* (E.O. 13834). It is designed to be a plan that can, and will over time, propel DOE to become the leader in the government for efficiency. DOE will become a leader not only in energy and water efficiency, but in all the elements of the Executive Order, allowing DOE to sustain its mission for decades to come.

The following steps are key to the action plan:

- 1. We will understand our performance.
- 2. We will identify projects that can save the Department money and pursue them with vigor.
- **3.** We will actively engage with our stakeholders and private sector partners to ensure quality contracting and project execution.
- 4. We will identify and eliminate barriers to new opportunities.
- 5. We will cheer our successes.

E.O. 13834 directs Federal agencies to manage their buildings, vehicles, and overall operations to optimize energy and environmental performance, reduce waste, and cut costs. DOE will continue to reduce facility energy and water usage and intensity by encouraging installation of advanced building level meters, implementing cost-effective efficiency measures, and exploring alternative financing options for infrastructure upgrades. DOE will continue to modernize and recapitalize our infrastructure, streamline our footprint, and right-size our infrastructure to match mission through sustained investments. DOE will continue to explore on-site energy generation opportunities that maximize our use of reliable, resilient, clean energy, including renewable energy, small modular nuclear technology, microgrids, and combined heat and power where they can ensure continuation of our operations and resilience to disruption from any source, including accidents, natural disasters, and physical- or cyber-attacks.

DOE mission activities will continue to grow; to counter the costs and potential environmental impacts of this growth, DOE will follow the key steps of our action plan as we identify, evaluate, and implement opportunities to reduce and optimize our sites through facility, waste, and fleet management. Facility management will focus on the adoption of technologies that reduce energy and water consumption, procurement of ENERGY STAR certified and Electronic Products Environmental Assessment Tool (EPEAT) registered products, and the continued evaluation of assets as required under <u>42 USC §8253</u>. Procurement opportunities will be assessed, as applicable, for sustainability, whether they include clauses for biobased products, products with recycled content, or other environmentally-friendly attributes as required by statute. DOE will focus on preventing or reducing pollution at its source wherever feasible. Pollutants and waste that cannot be prevented through source reduction will be diverted from entering the waste stream through environmentally-safe and cost-effective reuse or recycling initiatives. Fleet management will focus on fleet optimization, vehicle right-sizing, and the use of alternative fuels. DOE will continue to reduce petroleum consumption and increase alternative fuel use as required under <u>42 USC §6374e</u>. By continuing to improve efficiency in the management of DOE's sites, the Department is optimizing environmental performance while reducing costs.

#### **Implementation Summary**

#### 1. Facility Management:

#### FACILITY ENERGY EFFICIENCY

E.O. 13834 Section 2(a) requires agencies to "(a)chieve and maintain annual reductions in building energy use and implement energy efficiency measures that reduce costs."

**FY 2017 Status**: 37% reduction in energy consumption per gross square foot from FY 2003 baseline **Statute(s)**: 30% reduction in energy consumption per gross square foot in goal-subject buildings by FY 2015 from a FY 2003 baseline (<u>42 USC §8253</u>). §8253(b)(1) "each agency shall, to the maximum extent practicable, install in Federal buildings owned by the United States all energy and water conservation measures with payback periods of less than 10 years."

**Projected Progress FY 2018:** TBD, no later than FY 2018 Annual Energy Report (AER) **Projected Progress FY 2019:** TBD, no later than FY 2018 AER

Implementation Status	Operational Context	Priority Strategies & Planned Actions
DOE leverages infrastructure investments to improve the sustainability and efficiency of its operations. DOE uses strategies such as redesigning interior space, upgrading aging equipment, and installing energy meters and sub-meters according to the DOE metering plan to monitor, benchmark, and help identify opportunities to reduce facility energy consumption. Meters allow sites to identify where energy is most consumed and target their efforts. DOE sites continue to conduct energy audits to comply with the Energy Independence and Security Act of 2007 (EISA), §432. The audits are used to identify efficiency and conservation measures along with assessing performance of implemented measures.	Operational Context DOE excludes approximately 15% of its total square footage from the facility energy efficiency goal in accordance with the <i>Guidelines Establishing</i> <i>Criteria for Excluding Buildings</i> <i>from the Energy Performance</i> <i>Requirements of §543 of the</i> <i>National Energy Conservation</i> <i>Policy Act, as Amended by the</i> <i>Energy Policy Act of 2005.</i> These excluded facilities make up 35% of total energy use. Most excluded facilities are high energy mission-specific facilities (HEMSF) engaged in scientific research and industrial processes that are critical to meeting mission and extremely energy- intensive compared to typical government building assets. Additional HEMSFs are anticipated in the near future due to mission increases, such as Exascale computing.	<ul> <li>Priority Strategies &amp; Planned Actions</li> <li>The Sustainability Performance Office (SPO) will continue to measure and benchmark performance, assist programs in identifying high-value, high impact, cost-effective energy efficiency projects at sites by analyzing site data and working with the Federal Energy Management Program (FEMP) and site personnel to identify projects that can help offset mission-driven increases in energy demand and increase the resilience of our energy infrastructure.</li> <li>DOE will focus efforts on promoting and sharing best practices from energy efficiency project successes to assist DOE sites in improving facility energy management and performance. Sites will continue to install building level meters on facilities with high energy use. Building performance data will be entered into EPA's Portfolio Manager (PM) as required and used by SPO and other offices to identify areas of opportunity.</li> <li>In the next 1–2 years, DOE will focus on recommissioning or retro-commissioning programs for top energy intensive buildings. Sites will also continue to adopt and implement recommendations from the Better Building's Smart Labs Initiative. As cost-effective, sites will utilize energy management. DOE will encourage sites to pursue DOE's ISO 50001 Ready Program. DOE will continue to explore opportunities for on-site energy generation using advanced resilient technologies. For example, a study is underway to determine the feasibility and applicability of siting a small</li> </ul>

### EFFICIENCY MEASURES, INVESTMENT, AND PERFORMANCE CONTRACTING

E.O. 13834 Section 2(d) requires agencies to "(u)tilize performance contracting to achieve energy, water, building modernization, and infrastructure goals."

#### Number of projects FY 2017: None

Statute(s): Statute provides authority to enter into contracts (<u>42 USC §8287</u>). Number of projects FY 2018: TBD Number of projects FY 2019: TBD

Implementation Status	Operational Context	Priority Strategies & Planned Actions
DOE emphasizes life-cycle cost	Energy Performance Contracts	DOE will continue to leverage all available
analysis when selecting projects	are complex and resource	funding opportunities to implement efficiency
for funding. Return on	intensive with lengthy	measures, including performance contracts, to
investment and net present value	contractual performance periods	improve facility efficiency. To facilitate high
are calculated per OMB Circular	given DOE's low-cost electricity	quality projects under energy performance
A-94 "Guidelines and Discount	contracts. Furthermore,	contracts, DOE will ensure that all key
Rates for Benefit-Cost Analysis	conducting business at DOE	stakeholders in the performance contracting
of Federal Programs." Other	sites exacerbates contracting	process, especially agency legal and
financial calculations may be	complexities compared with	procurement staff, are appropriately trained to
performed (using <u>10 CFR Part</u>	some other agencies, due to	effectively understand and develop
436) to determine payback	additional safety and security	performance contracts.
period, internal rate of return,	procedures. The Department has	
and project cost effectiveness,	a well-defined process to	DOE will explore energy efficiency investment
with regard to environmental	evaluate its Energy Performance	opportunities in its facilities, specifically those
and social benefits.	Contracts for cost effectiveness	that will achieve deeper energy savings. DOE
	and potential risks prior to	will also explore the use of performance
In FY 2018, at least four major	implementation.	contracts for on-site energy generation projects
sites have started exploring		to increase DOE's energy security and
opportunities for performance-		resilience utilizing advanced technologies
based contracts.		including small modular reactors or combined
		heat and power plants. DOE facility and utility
		managers will continue targeting performance
		contracting to modernize aging facility and
		utility infrastructure. In addition, DOE will use
		commercial off-the-shelf data analytical tools
		to determine the life-cycle cost-effectiveness of
		efficiency conservation measures reported in
		DOE's Sustainability Dashboard.
		DOE's SPO will assess the top 25% of energy-
		intensive sites for potential investment
		opportunities in efficiency measures over the
		next two years. Annually, DOE sites will
		continue to assess 25% of covered buildings
		(75% of total site energy use) for energy and
		water efficiency measures as required by EISA
		\$432. DOE will use this data as a platform for
		engaging programs and sites on potential cost
		saving opportunities.

#### **RENEWABLE ENERGY**

E.O. 13834 Section 2(b) requires agencies to "(m)eet statutory requirements relating to the consumption of renewable energy and electricity."

FY 2017 Status: 6.3% (WITHOUT Bonus) or 12.6% (WITH Bonus) On-site, 12.1% renewable energy certificates (RECs) [24.7% total]

*Statute(s):* By FY 2013 and each year thereafter, use 7.5% renewable electricity as a percentage of overall facility electricity use (<u>42 USC §15852</u>).

Projected Progress FY 2018: 7.5% Projected Progress FY 2019: 7.5%

Implementation Status	Operational Context	Priority Strategies & Planned Actions
To meet renewable energy goals, DOE has installed on-site renewable energy at DOE facilities as well as off-site from federal facilities, installed combined heat and power processes, biomass plants, and purchased RECs. DOE has also utilized its Renewable Energy Planning and Optimization (REopt) tool to prioritize and identify renewable energy potential and projects that can be implemented by FY 2020.	The economic feasibility of renewable energy systems continues to challenge DOE sites, as low-cost electricity at some DOE sites extends payback periods.	To increase our use of renewable energy, DOE will utilize advanced analytical tools, such as REopt, to determine feasibility for renewables at the various site locations. DOE will continue to explore alternative financing options such as Power Purchase Agreements (PPA) to construct and operate renewable generation systems. DOE will also examine a variety of alternative energy sources and energy storage capabilities for implementation to increase the resilience of our energy infrastructure, wherever feasible. Where appropriate, long-term off-site renewable sources and RECs will be considered for purchase if necessary to meet statutory requirements. DOE will work to encourage inter- and intra-agency collaboration to share best practices and lessons learned from investing in on-site renewable energy sources. Sites with mission-critical energy-security concerns will begin evaluating microgrid applications, such as local generation and energy storage, over the next few years. SPO continues to work with DOE sites to evaluate the feasibility of installing renewable energy systems.

#### WATER EFFICIENCY

E.O. 13834 Section 2(c) states that agencies are required to "(r)educe potable and non-potable water consumption and comply with stormwater management requirements."

**FY 2017 Status:** 26% reduction in potable water consumption per gross square foot from FY 2007 baseline **Statute(s)**: Statute encourages water conservation (<u>42 USC §6834</u> and <u>42 USC §8253</u>) and establishes stormwater runoff requirements (<u>42 USC §17094</u>).

**Projected Progress FY 2018:** TBD, no later than FY 2018 AER **Projected Progress FY 2019:** TBD, no later than FY 2018 AER

Implementation Status	Operational Context	Priority Strategies & Planned Actions
DOE developed a Strategic	The reliance on water-intensive,	DOE will continue to implement the Strategic
Water Management Plan in FY	mission-critical activities	Water Management Plan to increase water
2016 that analyzed sites'	presents a unique challenge for	efficiency. More sites are focusing their water
potential for achieving water	DOE. Many DOE sites use water	use efficiency efforts on repairing leaks and
consumption reductions. The	for evaporative cooling towers,	replacing water and steam-intensive
plan concluded the most cost-	and process heat removal for	equipment. Building on the successes of sites,
efficient water conservation	offices, as well as industrial	DOE will continue to deploy closed-loop,
measures are reducing water use	applications such as cooling	capture, recharge, and/or reclamation systems,
through operational changes and	accelerators, supercomputers,	as applicable.
best management practices; sites	and data centers. In addition,	
are continuing to adopt these	some sites have a low payback	Reducing process water consumption and
practices. Other identified	or no payback associated with	addressing chilled water utilization efficiencies
measures in the plan included	water reductions due to no-cost	through a water management plan continue to
retrofitting and replacing	water use agreements with local	be core strategies undertaken by DOE. These
equipment and processes and	municipalities or use of on-site	best practices and lessons learned will be
leveraging alternative financing	wells. In addition, wildfires at	shared throughout the DOE complex.
options to implement capital	large sites in the western U.S.	
projects.	can result in significant	In the next 1–2 years, DOE will focus on
	unplanned water use for	identifying the potential for water reduction
DOE sites continue to conduct	firefighting.	projects. As feasible, sites will conduct
water audits to comply with		periodic water balances to determine water
EISA §432. The audits are used		sources, uses, and losses. Any inflow and
to identify water conservation		infiltration issues, steam leakages, or
measures, and assess the		underground non-potable and potable water
performance of implemented		leakages will be identified and addressed. High
measures.		efficiency technologies will be installed during
		the rehabilitation of existing buildings and in
Several DOE sites are employing proactive water		the design of new buildings for more efficient
management strategies by		water management.
converting once-through cooling		The use of electricity generators for electric
systems to closed-loop systems		and non-electric application such as
through reuse of process water,		desalination or other water treatment
gray water, and stormwater		applications will help ensure that water is
runoff. In addition to complying		managed effectively in support of DOE
with stormwater management		mission and in communities surrounding its
regulations, some DOE sites		facilities, especially in water constrained
harvest rainwater to enhance on-		regions of the United States.
site water conservation and		
stormwater management efforts.		
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#### HIGH PERFORMANCE SUSTAINABLE BUILDINGS

E.O. 13834 Section 2(e) requires agencies to "(e)nsure that new construction and major renovations conform to applicable building energy efficiency requirements and sustainable design principles; consider building efficiency when renewing or entering into leases; implement space utilization and optimization practices; and annually assess and report on building conformance to sustainability metrics."

*FY 2017 Status:* 9% by Gross Square Foot or 8% by building count Statute(s): High-performance green federal buildings are based on <u>42 USC §6834</u>, <u>42 USC §8253</u>, <u>42 USC §8254</u>, and <u>42 USC §17091 to §17094</u>. *Projected Progress FY 2018:* TBD, no later than FY 2018 AER

**Projected Progress FY 2018:** IBD, no later than FY 2018 AER **Projected Progress FY 2019:** TBD, no later than FY 2018 AER

Implementation Status	Operational Context	Priority Strategies & Planned Actions
In FY 2017, DOE achieved a 1	DOE facilities include unique	DOE will continue to actively promote energy
percentage point increase in the	scientific laboratories,	management, cost-effective energy
number of owned buildings	accelerators, light sources,	conservation measures, and building-level and
meeting the Guiding Principles	supercomputers and data centers,	data center metering. In the next $1-2$ years,
(GPs) as well as a 1 percentage	industrial facilities, and	DOE will use an integrated process with annual
point increase of owned gross	traditional office space	EISA audit findings and the GPs to assess and
square feet (GSF) meeting GPs.	environments. As a result, DOE	evaluate building and operating conditions to
	is challenged with integrating	understand our performance. We will then
	sustainability into mission-	identify areas for improvement; establish
	critical, energy intensive, and	operational goals for environmental
	aging infrastructure, particularly	performance; and incorporate goals into
	for existing buildings.	building management. Identified life-cycle
		cost-effective projects will be implemented as
	DOE has experienced difficulties	feasible.
	in meeting energy and water	
	targets for existing buildings	DOE will compare building performance with
	according to the 2016 Guiding	energy performance benchmarks annually and
	Principles for Sustainable	regularly monitor building energy performance
	Federal Buildings. To help	against historic performance data and peer
	address this, DOE plans to	buildings.
	combine efforts with EISA	
	audits and facility condition	DOE will continue to install building level
	assessments to identify potential	meters, and sites will conduct analyses of water
	projects at target buildings.	use, identify and, as appropriate, repair leaks,
		eliminate single pass cooling, optimize cooling
	DOE has a unique challenge in	tower operations, and use water efficient
	meeting the goal for new	products. DOE will work with its programs to ensure LEED Gold and the GPs requirements
	buildings in that the Department requires that all new	are well-understood and implemented into all
	construction and major building	new construction and major renovation
	renovations greater than \$50	projects.
	million must be LEED Gold	projects.
	certified, absent a waiver from	
	the Project Management	
	Executive (See <u>DOE Order</u>	
	413.3B).	

#### WASTE MANAGEMENT AND DIVERSION

E.O. 13834 Section 2(f) requires agencies to "(i)mplement waste prevention and recycling measures and comply with all Federal requirements with regard to solid, hazardous, and toxic waste management and disposal."

**FY 2017 Status:** 57% municipal solid waste (MSW) diverted; 56% construction and demolition (C&D) waste diverted **Statute(s):** The statute outlines that, "wherever feasible, the generation of hazardous waste is to be reduced or eliminated as expeditiously as possible," and "waste that is nevertheless generated should be treated, stored, or disposed of so as to minimize the present and future threat to human health and the environment" (<u>42 USC §6902</u>). See also <u>42 USC §6901 to §6992</u>; <u>42 USC §11001 to §11050</u>; <u>42 USC §13101</u>. **Projected Progress FY 2018:** TBD, no later than FY 2018 AER

**Projected Progress FY 2019:** TBD, no later than FY 2018 AER

Implementation Status	Operational Context	Priority Strategies & Planned Actions
DOE sites continue to	DOE sites use chemical	DOE will continue to use source reduction as
independently report on the	management systems to provide	the primary waste management strategy. DOE
management of toxic chemicals	supply-chain efficiency,	will also track the acquisition and use of
in accordance with the	establish tighter control of	hazardous chemicals and materials at the site-
requirements of Emergency	chemical purchases, and identify	level, as well as promote the use of alternative
Planning and Community Right-	alternatives. These systems	and less toxic chemicals and materials
to-Know Act (EPCRA) §301-	assist with chemical inventory	whenever possible.
§313. Waste minimization	reduction by tracking expired	
programs are established at	and excess chemicals.	DOE will share lessons learned and best
many DOE sites to reduce the		practices from successful and innovative MSW
generation and toxicity of waste.		and C&D recycling programs and net zero
Reporting is tracked through		waste programs with sites and laboratories.
EPA's Toxic Release Inventory		
(TRI) web-based reporting		In the next 1–2 years, DOE will continue to
program (TRI-MEweb).		implement integrated pest management and
		improved landscape management practices to
In addition, DOE diverts a		reduce and eliminate the use of toxic and
portion of its non-hazardous		hazardous chemicals and materials. DOE will
MSW and non-hazardous C&D		look for opportunities to further reduce fugitive
debris through the		emissions, and consider the potential
implementation of various		application of alternative products where
recycling, recovery, and reuse		feasible. Sites will reduce waste generation
methods and strategies.		through elimination, source reduction, and
		recycling, as well as maintain or increase their
		waste diversion rates.

#### 2. Fleet Management:

#### TRANSPORTATION/FLEET MANAGEMENT

E.O. 13834 Section 3(c) states that within 120 days of the date of the E.O. (i.e. September 14, 2018), "(t)he Secretary of Energy, in coordination with the Secretary of Defense, the Administrator of General Services, and the heads of other agencies as appropriate, shall *review existing Federal vehicle fleet requirements* and report to the Chairman of CEQ and the Director of OMB regarding opportunities to optimize Federal fleet performance, reduce associated costs, and streamline reporting and compliance requirements." (*Emphasis added*).

FY 2017 Status: 35.5% reduction in petroleum consumption and 177% increase in alternative fuel consumption relative to FY 2005 baseline

*Statute(s): "By October 1, 2015, and each year thereafter, achieve at least a 20 percent reduction in annual petroleum consumption and a 10 percent increase in annual alternative fuel consumption, as calculated from the FY 2005 baseline"* (42 USC §6374e(a)(2)). See also 42 USC §13212.

**Projected Progress FY 2018:** Interim Targets: 20% reduction in petroleum consumption; 10% increase in alternative fuel consumption

**Projected Progress FY 2019:** Interim Targets: 20% reduction in petroleum consumption; 10% increase in alternative fuel consumption

Implementation Status	Operational Context	Priority Strategies & Planned Actions
DOE optimizes fleet	While DOE is able to reduce	DOE will continue to implement the VAM in
performance by right-sizing and	fleet size at certain sites and	2018 and 2019. In 2020, the VAM will be
right-typing its fleet as detailed	national laboratories, increased	updated by DOE Headquarters. Sites continue
in the current Vehicle Allocation	and accelerated defense-related	to annually assess their fleet inventory for
Methodology (VAM). DOE has	missions will likely continue to	replacement opportunities and right-sizing.
reduced associated fleet	require overall fleet growth.	Agency-owned light duty to medium duty
management costs by	Fleet composition with respect	vehicles older than six years will be replaced if
modernizing the Department's	to vehicle types and inventory	and when authorized in the Annual
fleet.	must be continually evaluated	Appropriations Act. Where mission-compatible
	and adjusted as supported	and cost-effective, DOE will move from
DOE has also streamlined	missions evolve. Annual	agency-owned vehicles to the GSA Fleet
reporting and compliance	utilization reviews of prior FY	during 2018, 2019, and 2020.
requirements by leveraging the	data must be conducted on an	
Asset Level Data (ALD)	annual basis as required in 41	DOE will use the most recent ALD when
capabilities in the General	CFR 109-38.5105 and 38.5106.	making fleet operations, management,
Services Administration (GSA)		acquisition, and disposal decisions. The agency
Federal Fleet Management	EPAct 2005 Section 701	will continue efforts to improve the accuracy of
System (FedFMS) to facilitate	requires that agencies use	ALD data in GSA Drive-thru and FedFMS in
external reporting and provide	alternative fuel in all dual fueled	2018. DOE will enable FedFMS to auto-
data to support fleet	alternative fueled vehicles	capture fuel, mileage, maintenance, and repair
management decisions.	(AFVs) except in vehicles for	costs from SmartPay3® fleet credit card
	which the agency received a	transaction reports starting in 2019.
	waiver. DOE struggles to	Electric archiele convisition and changing
	achieve this goal due to the	Electric vehicle acquisition and charging
	remote locations of its various	station installations are expected to increase in
	sites and lack of availability of	the next two years.
	alternative fuel options.	
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#### 3. Cross-Cutting Categories:

#### SUSTAINABLE ACQUISITION/PROCUREMENT

E.O. 13834 Section 2(g) requires agencies to "(a)cquire, use, and dispose of products and services, including electronics, in accordance with statutory mandates for purchasing preference, Federal Acquisition Regulation requirements, and other applicable Federal procurement policies."

**FY 2017 Status:** 16.3% contracts with environmental clauses; 55.12% contract dollars with environmental clauses **Statute(s):** Federal procurement of biobased products (<u>7 USC §8102</u>), products with recycled content (<u>42 USC 6962</u>), energy efficient products and products with low standby power (<u>42 USC 8259b</u>, <u>42 USC 6361</u>), non-ozone depleting (<u>42 USC 76711</u>).

Projected Progress FY 2018: TBD Projected Progress FY 2019: TBD

Implementation Status	Operational Context	Priority Strategies & Planned Actions
DOE purchases products that are water efficient (WaterSense), biobased (USDA BioPreferred), non-ozone depleting (Significant New Alternative Policy), non- toxic (Safer Choice labeled), fuel efficient (SmartWay products), and made from recycled content in accordance with the Federal Acquisition Regulation and the DOE Acquisition Regulation.	DOE sites leverage Federal purchasing dollars to achieve mission goals, while also reducing the environmental impact of their operations and improving the marketplace for safer and more sustainable products.	To continue progress in sustainable acquisition, DOE will share information, tools, resources, and best practices to assist sites and programs in their efforts to purchase more sustainably. DOE will continue to incentivize sustainable acquisition efforts through the GreenBuy Awards Program and offer trainings and assistance through the SAWG bi-monthly meetings. DOE will engage with stakeholders to identify new sustainable acquisition opportunities.
To support sustainable acquisition activities, DOE hosts bi-monthly Sustainable Acquisition Working Group (SAWG) meetings to provide participants with the most current sustainable acquisition information and encourage peer- to-peer knowledge exchange. DOE also offers a web-based accredited two-hour training module on Federal sustainable acquisition. DOE's GreenBuy Award Program annually recognizes sites which purchase products from the Priority Products List, which is a compilation of product types with the least environmental, social, and economic impact. In FY 2017, eight DOE sites won GreenBuy awards for implementing exceptional sustainable acquisition programs.		Over the next 1–2 years, DOE will improve the quality of data and tracking of sustainable acquisition through the Federal Procurement Data System (FPDS). DOE will look for opportunities to incorporate criteria or contractor requirements into procurements and reduce supply chain emissions. DOE will identify ways to engage directly with suppliers to provide products that meet sustainability requirements and allow sites to pilot their use in site operations. The results of these pilots will be shared with other sites. DOE is also planning to increase the use of online marketplaces to streamline the identification and procurement of more sustainable products.

#### ELECTRONICS STEWARDSHIP

E.O. 13834 Section 2(g) requires agencies to "(a)cquire, use, and dispose of products and services, including electronics, in accordance with statutory mandates for purchasing preference, Federal Acquisition Regulation requirements, and other applicable Federal procurement policies."

**FY 2017 Status**: 90% of eligible electronics procurements meeting EPEAT requirements; 84% of eligible equipment with power management; 79% of eligible printers utilizing duplex printing features; 87% compliance with disposal guideline;

Statute(s): Procure (A) an Energy Star product or (B) a FEMP designated product (<u>40 USC §8259b</u>) and dispose of excess property as promptly as possible (<u>40 USC §524</u>). See also <u>40 USC §549</u>; <u>40 USC §527</u>; <u>15 USC 3710(i)</u>. Projected Progress FY 2018: TBD Projected Progress FY 2019: TBD

DOE purchases and leases environmentally sustainable electronic products in accordance with the Federal Acquisition Regulation, the Department of Energy Acquisition Regulation, and the U.S. EPA's Recommendations of Standards and Ecolabels for Federal Green Purchasing.Sites were unable to meet goals for purchase of EPEAT- registered televisions due to limited availability of products). Additionally, power management and formation Brief for sites in August 2017, highlighting the availability of precistered mobile phones and providing instructions on finding and purchasing these products.Sites were unable to meet goals for purchase of EPEAT- registered televisions due to limited availability of regonized with 2018 EPEAT episoted in formation Brief for sites in August 2017, highlighting the availability of perfers encoding anagement exemptions on finding and purchasing these products.Sites were unable to meet goals for free for sites in August 2017, highlighting the availability of episote computers, monitors, and laptop computers, tellininating power management exemptions for computers, somitors, and laptop computers, monitors, and laptop computers.Sites were unable to meet goals for the new server registry after it opens later in 2018.To assist sites in finding and purchase of EPEAT- registered mobile delace. These recycling- ineligible electronics make up less than 1% of end-of-life electronics each year.To assist sites in finding and purchase field and so additional formation servers. DOE will publish an additional Information Brief on the new server registry after it opens later in 2018.DOE enables and maintains power management on eligible Eliminating power management exemptions for computers with opens and <th>Implementation Status</th> <th>Operational Context</th> <th>Priority Strategies &amp; Planned Actions</th>	Implementation Status	Operational Context	Priority Strategies & Planned Actions
<ul> <li>environmentally sustainable</li> <li>electronic products in</li> <li>accordance with the Federal</li> <li>Acquisition Regulation, the</li> <li>Department of Energy</li> <li>Acquisition Regulation, and the</li> <li>U.S. EPA's Recommendations</li> <li>of standards and Ecolabels for</li> <li>Federal Green Purchasing.</li> <li>Thirteen DOE sites were</li> <li>recognized with 2018 EPEAT</li> <li>murchaser Awards from the</li> <li>Green Electronics Conneil. DOE</li> <li>published an Information Brief</li> <li>for sites in August 2017,</li> <li>highlighting the availability of</li> <li>EPEAT-registered mobile</li> <li>phones and providing</li> <li>instructions on finding and</li> <li>purchasing these products.</li> </ul> DOE enables and maintains power management on eligible ENERGY STAR certified desktop computers. Eliminating power management certority concerns. DOE enables and maintains power management on eligible ENERGY STAR certified desktop computers. Eliminating power management certificity and \$251,000 in electricity costs in FY 2017. Overall, power management across the Energy and laptop computers. Eliminating power management recognized with 2017, provide tectorics cannot be right and the standards and providing and providing and providing and provides. DOE enables and maintains power management on eligible ENERGY STAR certified desktop computers. Eliminating power management recognized with bors of electricity and \$251,000 in electricity costs in a lapper Data state in FY 2018. DOE will publish an additional Information Brief inghlighting acceptable power management exemptions and the cost savings associated with eliminating unnecessary or imanagement exemptions and the cost savings associated with eliminating unnecessary or imanagement exemptions and the cost savings associated with eliminating unnecessary or imanagement exemptions and	-	*	
electronic products in accordance with the Federal Acquisition Regulation, the Department of Energy 			
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#### **GREENHOUSE GAS EMISSIONS**

E.O. 13834 Section 2(h) requires agencies to "(t)rack and, as required by section 7(b) of this order, report on energy management activities, performance improvements, cost reductions, *greenhouse gas emissions*, energy and water savings, and other appropriate performance measures." (*Emphasis added*).

FY 2017 Status: 43.3% reduction in Scope 1 & 2 GHG emissions from the FY 2008 baseline.
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