DEPARTMENT OF HOMELAND SECURITY
2018 SUSTAINABILITY REPORT AND IMPLEMENTATION PLAN

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Dr. Teresa Pohlman, Executive Director
Sustainability and Environmental Programs
Teresa.Pohlman@hq.dhs.gov
202-821-9380

Dawn Gunning, Manager
Environmental Programs
Dawn.Gunning@hq.dhs.gov
202-603-2252

Department of Homeland Security
2018 Sustainability Report and Implementation Plan

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Executive Summary

Vision

The DHS Sustainability Report and Implementation Plan (Sustainability Plan) reflects the Department's strategic vision for doing business more efficiently and sustainable. Components develop and deploy tactical implementation plans in accordance with their mission objectives. These plans are called Operational Sustainability Performance Plans (OSPPs) and support the Department's efforts by driving sustainability at the Component level. Each OSPP is signed by a Component Sustainability Accountable Official, who also serves on the DHS Sustainability Council. Information from the latest versions of OSPPs were incorporated into this year's DHS Sustainability Plan. Below is a table of the DHS Components included in this report.

Customs and Border Protection (CBP)	Science and Technology Directorate (S&T)
National Protection and Programs Directorate (NPPD)	Transportation Security Administration (TSA)
Federal Law Enforcement Training Center (FLETC)	US Coast Guard (USCG)
Federal Emergency Management Agency (FEMA)	US Citizenship and Immigration Services (USCIS)
Immigration and Customs Enforcement (ICE)	US Secret Service (USSS)

Leadership

Strong leadership remains the key to achieving sustainability goals – strengthening the departmental unity through improved accountability between strategic objectives, budgeting, acquisition, decisions, operational planning and mission execution. The Department leadership and accountability roles for the Sustainability Plan are as follows: The Deputy Under Secretary for Management (DUSM) was designated by the Secretary to serve as Chief Sustainability Officer for the Department. The DUSM is accountable for DHS conformance with Executive Order 13834, Efficient Federal Operations. The following key functions, referred to as the CXOs, report to the DUSM and are responsible for implementation of the Sustainability Plan:

- Chief Readiness Support Officer (CRSO) with responsibility for fleet, energy, resilience, personal property, real estate, operations support, sustainability and environmental management,
- Chief Financial Officer (CFO),
- Chief Human Capital Officer (CHCO),
- Chief Procurement Officer (CPO), and
- Chief Information Officer (CIO).

The DHS Sustainability Council consists of the CXOs and appropriate Component managers. The Council guides EO 13834 implementation efforts. The CRSO provides coordination and management for the Chief Sustainability Officer on the Sustainability Plan and performs the following functions:

- Maintains the Sustainability Plan and coordinates inputs from the Sustainability Council, Sustainability and Environmental Committee, CXOs, and Components;
- Reports progress on the Sustainability Plan to the Chief Sustainability Officer, Sustainability Council, and others as required;

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- Monitors and reports on EO 13834 compliance; and
- Prepares required reports and metrics for submittal to the Office of Management and Budget and the Council on Environmental Quality.

Performance Summary Review

Many of the DHS goals are tracked on the OMB DHS FY 2017 Scorecard for Efficient Federal Operations and Management. DHS was successful in achieving its goals in the areas of Greenhouse Gas Emissions, Water Intensity, Energy Intensity, Sustainable Acquisitions, Renewable Electricity, and Electronics Stewardship. DHS is working toward the goals in Petroleum Fuel Use and Sustainable Buildings. The FY 2017 results are provided in the Progress Table below.

Progress Table

Metric Item	FY 2017 Goal	DHS Status	Comments
Scope 1&2 GHG	29%	29.7%	Achieved Goal and is on track to achieve 51% by 2025
Scope 3 GHG	9%	41.3%	Achieved Goal and is on track to exceed goal of 19.2% by 2025
Water Intensity	18%	27.7%	Achieved Goal and is on track to achieve 36% by 2025
Energy Intensity	30%	32.3%	Achieved Goal compared to FY 2003 baseline; 9% compared to FY 2015 baseline
Sustainable Acquisitions	95%	100%	Achieved Goal by conducting internal reviews of 5% of eligible contracts
Renewable Electricity	10%	10.6%	Achieved Goal, EO 13834 established new goal for FY 18 of 7.5% DHS is on track.
Petroleum Fuel Use	-20%	324.4%	DHS mission has increased significantly since 2005 baseline; Alternative fuel use as a percentage of total covered fleet fuel use is 2.9%; In FY17 DHS increased it alternative fuel use by 17 percent.
Electronics Stewardship	EPEAT 95% Power Mgmt 100% End-of-Life 100%	EPEAT 99.6% Power Mgmt 100% End-of Life 100%	Achieved Goal; and won a Green Electronics Council EPEAT Purchaser of the Year Award for the 4th year in a row.
Sustainable Buildings (GSF)	15%	10.5%	DHS is on track to achieve 15% by 2025. DHS continues to implemented the Sustainable Buildings (SB) Plan Department-wide that makes realistic, incremental steps in improving overall SB.

Successes

DHS has demonstrated success that has received internal and external recognition. The 2018 DHS Sustainable Practices Awards Program recognized 16 winners (teams and individual awards) for their efforts in advancing the Department's sustainability goals. The nominations represented 90 employees from five Components; USCG, ICE, CBP, FEMA and FLETC. The winners attended a ceremony hosted by the Under Secretary for Management in July of 2018. This is the eighth year the Department has formally recognized exceptional sustainability projects in the field.

In 2018 the Department was recognized by external entities as well. Two Component offices were awarded Federal Green Challenge Awards: CPB in Detroit, MI; and USCG in Seattle, WA. The DHS Office of the Chief Procurement Officer, Office of the Chief Information Officer and Office of the Chief Readiness Support Officer were recognized by the Green Electronics Council for accomplishments in purchasing EPEAT (Electronic Product Environmental Assessment Tool) registered products. DHS earned three gold stars for having a sustainable purchasing policy, setting EPEAT specifications in contracts, and establishing a tracking system for accurate reporting. DHS's EAGLE II and FirstSource II strategic sourcing contracts provided the mechanism for the purchase of green products, including televisions, computers, printers and copiers. In FY 2017 DHS purchased 110,820 EPEAT registered units which consume less energy resulting in a reduction in 7,408 metric tons of greenhouse gas emissions and $4,490,500 in cost savings. DHS is continuing this program in FY 2018.

Top 3 Strategies

1. Resilience Framework

Following the 2017 hurricanes and wildfire events that occurred on the mainland United States, Puerto Rico, and Virgin Islands, DHS broadened their focused effort to formalize a Department-wide process for incorporating resilient solutions that integrates Continuity and improves the security, reliability, and performance of our critical infrastructure. This process ensures sustained resilience of mission essential functions and related supporting infrastructure during all phases of mission operations (normal operations, disruptive event, response, and recovery). This Resilience Framework focuses on four key critical infrastructure areas: 1) Energy and Water, 2) Facilities, 3) Information and Communication Technology, and 4) Transportation.

In June of 2018 DHS Sustainability and Environmental Programs hosted a "Leadership in Resilience Summit" which was attended by key speakers from DOD, Department of Energy, and Council on Environmental Quality among other subject matter experts. Over 100 DHS employees attended. On August 13, 2018, the DUSM signed the Resilience Framework, a roadmap for the Department in operational resilience and readiness. Components are now working towards completing Resilience Framework plans by August of 2019.

2. Sustainable Buildings Plan

DHS established a goal to achieve at least 15% of sustainable buildings by 2025 and is on track to meet it. As directed by the Sustainability Council, DHS developed a Sustainable Buildings Plan template to identify a new and realistic target. In FY16 each Component developed a Sustainable Buildings Backlog which included an accurate building inventory, planned construction, budget information and timelines to achieve compliance. Annual goals were established by each Component and compiled to develop the Department's goals from FY17 through FY25. These plans provide the roadmap forward to improving

the Department's sustainable buildings inventory. The Component Sustainable Building Plans were updated in FY17 and DHS exceeded annual goal of 9% and achieved 10.5%.

DHS Annual Sustainable Buildings Goals
Exceeded FY17 Goal of 9% and Achieved 10.5%

Fiscal Year	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25
DHS Sustainable Buildings Goal/GSF	9%	9%	10%	12%	13%	18%	16%	17%	20.7%

3. **Program Management Reviews**
Sustainability and Environmental Program Management Reviews (PMR) are used to provide an understanding of each Component's sustainability performance, challenges and successes. The PMR is a face to face meeting that allows for an open dialogue between the Component and DHS HQ. The PMRs are conducted annually with each Component and follow a PowerPoint template developed by DHS HQ to obtain standardized information. This template is revised as needed and input from the Environmental and Sustainability, Energy and Environmental Planning and Historic Preservation Committees. Information that is needed for external reports, such as waste diversion rates, is incorporated during annual updates. The process includes review and approval by senior level management. The Sustainability and Environmental PMRs have been a successful way to obtain pertinent information for reporting to stakeholders, monitoring, and improving Component programs. In FY18 the DUSM signed Directive 107-02 expanding the PMR framework to other functional areas within the Office of the Chief Readiness Support Officer.

Implementation Summary

Facility Management
Facility Energy Efficiency
FY 2017 Status: 32.3% reduction (Btu/GSF)
Projected Progress in FY 2018: 2%
Projected Progress in FY 2019: 2%

Implementation Status	Operational Context	Priority Strategies & Planned Actions
Make energy efficiency investments in Component buildings.	FEMA plans to allocate funds equal to 8% of its total utility cost to execute energy conservation measures (ECMs). FEMA is working to increase investment efforts by implementing viable ECMs identified during annual energy audits.	At least 8% percent of total facility energy cost invested annually in ECMs.
Use remote building energy performance assessment auditing technology	FLETC uses DDC Energy Reports to monitor its "covered" facilities.	Use Energy Reports and other utility data to assess building's performance and usage.
Install and monitor energy meters and sub-meters.	FLETC has installed smart electric meters in all "covered"	Complete the installation of new natural gas meters at Glynco with remote

Implementation Status	Operational Context	Priority Strategies & Planned Actions
	buildings. Currently, smart natural gas meters have been installed at Glynco and will be installed in Artesia.	access to real-time data via FLETC's DDC WebCTRL system.

Efficiency Measures, Investment, and Performance Contracting

ESPC and UESC investment / number of projects FY 2017: $44.6

Planned investment / number of projects FY 2018: $3M/2-3 projects

Planned investment / number of projects FY 2019: $2M/1-2 projects

Implementation Status	Operational Context	Priority Strategies & Planned Actions
Make energy efficiency investments in Component buildings.	FLETC has implemented ECMs on all campuses using alternative financing through ESPCs and UESCs. Economically viable ECMs are implemented at MD TDP through a General Services Agency (GSA) Area Wide Contract with Washington Gas Light (WGL) Company. A UESC was implemented at the Cheltenham Campus and plans are to also implement a UESC at the Glynco campus.	Completed DFS by WGL in March 2017. Plans are for the recommended Cheltenham ECMs to be implemented in FY 2018 and FY 2019.

Also, FLETC plans to implement a UESC project at Glynco to research viable ECMs. The Glynco UESC Preliminary Assessment (PA) will be completed in FY 2018. |

Renewable Energy

FY 2017 Status: 10.6% renewable electricity

Projected for FY 2018: 7.5%

Projected for FY 2019: 7.5%

Currently the requirement under EO13834 states 7.5%. Going forward DHS will not prioritize the purchase of RECs, but will invest those dollars spent in past to execute projects that support on-site renewable projects for resilience and grid relief OR for energy/water conservation measures that decrease our demand and increase our efficiencies.

Implementation Status	Operational Context	Priority Strategies & Planned Actions
Produce On-Site Renewable Energy	FLETC will use UESC under the GSA Area Wide Contract with WGL Company to implement economically viable ECMs. Also, FLETC plans to implement a UESC project at the Glynco Campus.	Construct a PV solar array at FLETC's Cheltenham campus. Implementation of renewable ECMs were determined by Detailed Feasibility Study (DFS) received March 2017.

FLETC has created a business case to further justify the Cheltenham ECMs as viable projects relative to resiliency and sustainability. |
| Install Component-funded renewable on-site and retain corresponding renewable energy certificates (RECs). | On-site renewables will be funded using a UESC and not component-funded. | FLETC plans to construct a 2-MW solar array beginning FY 2018 and complete in FY 2019. |

Water Efficiency
FY 2017 Status: 28% reduction in potable water (Gal/GSF)
Projected for FY 2018: 28%
Projected for FY 2019: 28%

Implementation Status	Operational Context	Priority Strategies & Planned Actions
Install advanced meters to measure and monitor potable and ILA water use	Advanced meters are installed for each building at Glynco and are installing meters on skid pans for ILA water use. At Cheltenham, install electronic water meters on domestic water well and Prince George County Fire School supply.	Quantify water being used by Prince George County Fire School. Install/connect electronic domestic water well meter to Cheltenham's BAS for real-time usage data. Quantify FLETC's ILA usage.
Minimize outdoor water use and use alternative water sources when possible.	Water-efficient landscaping is mandatory in the CBP design standards.	CBP has an established goal to reduce ILA water consumption, measured in gallons, by 2% annually through FY 2025.

High Performance Sustainable Buildings
FY 2017 Status: 10.5% buildings by GSF
Projected for FY 2018: 9%
Projected for FY 2019: 10%

Implementation Status	Operational Context	Priority Strategies & Planned Actions
Produce a FLETC Resiliency Master Plan	During FY 2018 and FY 2019, FLETC will produce a resiliency master plan that will include a 25 year look ahead of viable projects relative FLETC's overall mission.	Implement and resource actionable items within a one to five year window to support the FLETC Resiliency Plan.
Ensure all new construction of Federal buildings greater than 5,000 GSF that enters the planning process be designed to achieve energy net-zero and, where feasible, water or waste net-zero by FY 2030.	FLETC is already looking for ways to achieve net-zero energy levels for all major renovations and new construction greater than 5,000 GSF.	The ground mounted PV solar array will begin the implementation of FLETC's NZE Plan.

Waste Management and Diversion
FY 2017 Status: 38% waste diverted (non-hazardous solid waste), and 27% Construction and Demolition
Projected Progress in FY 2018: 2%
Projected Progress in for FY 2019: 2%

Implementation Status	Operational Context	Priority Strategies & Planned Actions
Establish methods or processes to achieve at least 50% recycling rates of solid waste and C&D debris.	The focus for CBP in FY 2018 is to incorporate C&D diversion requirements into contract SOWs and require monthly submission of Waste Diversion Summary Reports.	Work with the PMOs to incorporate C&D diversion requirement language into contract SOWs beginning in FY 2019.

Implementation Status	Operational Context	Priority Strategies & Planned Actions
	EEMD is working with the PD to draft this language, at which point it will be brought to the Sustainability Steering Committee (SSC) for approval and implementation.	

Fleet Management

Transportation/Fleet Management

FY 2017 Status: 342.4% increase in petroleum & 129% increase in alt fuel
Projected Reduction Target for FY 2018: 6.75%
Projected Reduction Target for FY 2019: 9.50%

Implementation Status	Operational Context	Priority Strategies & Planned Actions
Collect and utilize Component fleet operational data through deployment of vehicle telematics.	Incorporate telematics capability in all FLETC vehicles through the expanded use of the FuelMaster program at all FLETC training sites.	(1) Telematics installed on 100% of eligible vehicles located at Glynco, GA and Artesia, NM training sites by the end of FY 2017. (2) Expand telematics capability to Charleston, SC and Cheltenham, MD through implementation of the FuelMaster system by the end of FY 2018
Optimize and right-size fleet composition by reducing vehicle size, eliminating underutilized vehicles, and acquiring and locating vehicles to match local fuel infrastructure.	CBP updated Directive 5260-010A, Motor Vehicle Allocation and Right-Sizing CBP's Motor Vehicle Fleet, which provides guidance on maintaining the optimal fleet size. Throughout the fiscal year, CBP reduced fleet size by 554 vehicles through elimination of underutilized vehicles.	In FY 2018, CBP will reduce its inventory by 118 vehicles, monitor ongoing fleet reduction progress, and track office inventories to the table of vehicles.

Cross-Cutting

Sustainable Acquisition/Procurement

FY 2017 Status: 1% contracts & 1% contract dollars with environmental clauses
Projected for FY 2018: 1% contracts & 1% contract dollars with environmental clauses
Projected for FY 2019**:** 1% contracts & 1% contract dollars with environmental clauses

Implementation Status	Operational Context	Priority Strategies & Planned Actions
Identify and implement corrective actions to address barriers to increasing sustainable acquisitions.	DHS will continue to evaluate findings from quarterly sustainable acquisition contract reviews to increase procurement of sustainable goods and services.	Evaluate findings from quarterly contract reviews to identify common areas of weakness and draft corrective action plan, as necessary.

Implementation Status	Operational Context	Priority Strategies & Planned Actions
Reduce copier and printing paper use and acquiring uncoated printing and writing paper containing at least 30 percent postconsumer recycled content or higher.	Current requirements are already in the DHS Affirmative Procurement Plan/Homeland Security Acquisition Manual.	The HSAM will be revised in accordance with any future FAR rules.
Establish and implement policies to purchase environmentally preferable products and services that meet or exceed specifications, standards, or labels recommended by EPA.	Continue to meet statutory requirements mandating purchase preference for products designated by EPA.	Throughout 2018 and 2019, maintain existing policies requiring purchase preference for products designated by EPA.
Establish and implement policies to meet statutory mandates requiring purchasing preference for recycled content products, ENERGY STAR qualified and FEMP-designated products, and BioPreferred and biobased products designated by USDA.	The requirement for purchasing preference for recycled content products, ENERGY STAR qualified and FEMP-designated products, and Biopreferred and biobased products designated by USDA has already been incorporated into the Homeland Security Acquisition Manual (HSAM) and the DHS Affirmative Procurement Plan at Appendix Q of the HSAM. In addition, this has already been implemented and verified with quarterly contract reviews. DHS established a biobased goals for FY 2018 and FY 2019	Continue to require biobased purchasing progress in Component Operational Strategic Performance Plans. Biobased goal for FY 18: 360 contract actions; FY 19: 365 contract actions.

Electronic Stewardship

FY 2017 Status: 99.62% equipment acquisition meeting EPEAT requirements, 100% equipment with power management, & 100 % compliance with disposal guidelines
Projected for FY 2018: Maintain current levels.
Projected for FY 2019**:** Maintain current levels.

Implementation Status	Operational Context	Priority Strategies & Planned Actions
Use government-wide category management vehicles to ensure procurement of equipment that meets sustainable electronics criteria.	DHS will continue to use its Federal Strategic Sourcing Initiative Contracts, FirstSource II and Eagle II through the end of the base year. During this time options to utilize government-wide strategic sourcing vehicles will be evaluated.	Purchase and track EPEAT registered electronics.
FEMA plans to continue to implement Workplace	Continued implementation of shared printer initiative to achieve cost avoidance, storage and	CY18 focus for WPT implementation is Region IV. Projected cost avoidance results if implemented:

Implementation Status	Operational Context	Priority Strategies & Planned Actions
Transformation (WPT) at additional locations.	environmental efficiencies. National Capital Region (NCR) and Regions II, IV and VII are implementing WPT strategies, including the shared printer initiative.	**$262,840 overall savings annually.** • Reduce # printers: $235,556 savings • Reduce printer paper: $10,441 savings • Energy conservation: $5,471 savings • Recycling/diversion from landfills: $3,827 savings • GHG / travel (commuter) reduction: $7,545 savings

Greenhouse Gas Emissions

FY 2017 Status: 29.7% reduction in Scope 1 & 2 emissions
FY 2017 Status: 41.3% reduction in Scope 3 emissions
Projected for FY 2018: 31% reduction in Scope 1&2 emissions, 10% reduction in scope 3 emissions
Projected for FY 2019: 33% reduction in Scope 1&2 emissions, 12% reduction in scope 3 emissions

Implementation Status	Operational Context	Priority Strategies & Planned Actions
GHG emission reductions are tracked at the Component level.	Each Component tracks GHG emissions and reports annually for a comprehensive roll up for the DHS GHG Report	Components are held accountable for meeting their GHG emission reduction goals through quarterly metrics reporting. Proposed in FY 19 DHS will continue to track quarterly metrics and begin including them in the Under Secretary for Management's Health Metrics.