

2016 Strategic Sustainability Performance Plan

June 30, 2016



MILLENNIUM
CHALLENGE CORPORATION

UNITED STATES OF AMERICA

Millennium Challenge Corporation
2016 Strategic Sustainability Performance Plan

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Policy Statement

The Millennium Challenge Corporation (MCC) is committed to promoting and supporting environmental sustainability in its policies and operations.

MCC is an innovative and independent U.S. foreign aid agency helping lead the fight against global poverty. Established in 2004, MCC has signed 35 development assistance compacts and entered into 26 threshold programs in countries worldwide. MCC's programs are based on the principles of good governance, country ownership, transparency, and a focus on results. MCC promotes environmental sustainability as a core element of economic growth in its partner countries.

MCC's Sustainability Performance Plan reflects the Agency's strong commitment to meet all applicable environmental and energy statutes, regulations, and Executive Orders, specifically addressing Executive Order (E.O.) 13693, *Planning for Federal Sustainability in the Next Decade*. E.O. 13693's goal is for agencies to "increase efficiency and improve their environmental performance." In particular, MCC recognizes the importance of the Order's first priority – to reduce energy use and cost.

MCC is a small agency with approximately 300 federal employees at its leased headquarters in Washington, D.C. and a minimal presence in partner countries abroad. Nonetheless, MCC is committed to create a sustainability-conscious operating environment for all of its employees and continuously improve policies and practices to enhance its environmental performance. During Q1 and Q2 of FY 2016, MCC relocated and consolidated the Agency's Washington, D.C. headquarters operations in a renovated leased facility. The new facility occupies approximately 16 percent less rentable floor space than MCC previously occupied and helped to substantially reduce energy consumption. MCC's tenant space in the new headquarter facility was designed to LEED- Gold standards. MCC is proud of its sustainability record and remains committed to a program of continuous improvement in the coming year.

Executive Summary

Vision

The Millennium Challenge Corporation (MCC) is committed to promote and support environmental sustainability in its policies and operations. MCC's Strategic Sustainability Performance Plan reflects its strong commitment to meet all applicable environmental and energy statutes, regulations, and Executive Orders, specifically addressing Executive Order (EO) 13693, *Planning for Federal Sustainability in the Next Decade*.

MCC is committed to create a sustainability-conscious operating environment for all of its employees and to continuously improve policies and practices that enhance its environmental performance. MCC has made continued progress toward that objective—increasing efficiency, reducing waste, and greening procurement. MCC plans to make continued progress in FY 2016.

Leadership

MCC's sustainability performance plan emphasizes implementation of its planned FY 2016 actions to:

- ★ Relocate its Washington D.C. operations to leased space with a 16 percent smaller footprint (in terms of rentable square feet) that is LEED-certified Gold.
- ★ Reduce the Agency's lease expenses, including operating costs. Operations in the new space will directly contribute towards long-term reductions in the Agency's energy consumption and improvements in environmental sustainability.
- ★ Work closely with the new building managers to measure the Agency's consumption of utilities, improve energy efficiency, and reduce pollution and waste.

MCC's Managing Director (MD) of Administrative Services serves as the Agency's Chief Sustainability Officer (CSO) and is responsible for leading the planning, development, and evaluation of the Agency's annual strategic sustainability performance plan. As the Managing Director for Administrative Services, the CSO oversees facilities, non-IT personal asset management, office services, records management and fleet management. The MD for ASD reports directly to the DVP for Contracts and Administration (C&A) under the Department of Administration and Finance (A&F). A&F holds the majority of MCC's functional administrative responsibilities directly tied to attaining sustainability goals, including the Office of the Chief Information Officer (OCIO), the Human Resources Division (HRD) and the Financial Management Division (FMD), as well as the functions under the DVP for C&A, i.e., Contracts and Grants Management (CGM), and Domestic and International Security (DIS). A&F enhances accountability for coordinated planning and evaluation of agency-wide sustainability efforts involving key stakeholders in the Office of General Counsel (OGC), Department of Compact Operations (DCO), and Department of Policy and Evaluation (DPE).

Performance Summary Review

MCC has found that its small size lends itself to integrating environmental sustainability measures with efforts to improve efficiency and productivity. The Agency is in the process of drafting a new strategic plan, and MCC plans to include environmental sustainability measures in its implementation. In particular, reduction of major expenses such as lease payments, airline travel, data center services (by

outsourcing), and IT equipment procurement and disposal are allied with reductions in energy consumption and its associated greenhouse gas emissions, reduced long-term consumption rates of equipment and supplies, and lowered costs to comply with environmental sustainability mandates.

Greenhouse Gas Reduction

MCC neither owns nor controls any significant sources of direct greenhouse gas emissions. Through mid-December 2015, MCC leased 129,206 square feet of commercial space in two adjacent commercial downtown Washington, D.C. office buildings. Electricity consumption in both buildings is centrally metered and shared with other lessees. MCC also leases and operates a single E85-fueled hybrid vehicle. Given these circumstances, Scope 1 and Scope 2 greenhouse gas (GHG) emissions targeting do not apply to MCC.

Nonetheless, MCC's relocation to new headquarters will contribute toward Scope 2 GHG emission reductions.

- ★ MCC consolidated its operations at its new location, into renovated leased space with a 16 percent smaller footprint (for a total of 108,373 rentable square feet).
- ★ The building at MCC's new location is ENERGY STAR Labeled, and is Operations and Maintenance (O+M) LEED-certified Gold. Currently, one of the two buildings MCC previously occupied is not ENERGY STAR Labeled and has no LEED O+M certification; the other is ENERGY STAR Labeled and certified O+M LEED-certified Gold.
- ★ The design requirements for MCC's new space were aligned to Commercial Interior LEED-certification at Gold. In addition, MCC specified that the new space achieve a minimum lighting power density 20 percent below the current standard, ASHRAE 90.1-2013.

MCC's Scope 3 target greenhouse gas (GHG) emissions derive from agency air travel. Air travel CO₂e emissions during FY 2015 were 2116 MT, a 26.7 percent increase compared to FY 2014, and is 2.2 percent more than FY 2008 baseline of 2070 MT. Not included is staff commuting, which is tracked separately. For FY 2015, staff commuting miles attributable to staff use of public transportation was significantly improved to 73 percent, compared to 53 percent in FY 2011 (when data first became available) and 50 percent last year. The proportion of Federal staff with regular telework agreements in FY 2015 was 19 percent, the same proportion in FY 2014. MCC revised its telework policy in Q4, FY 2015 to encourage more telework by increasing the number of workdays per pay period employees are permitted to telework, the first major change in policy since 2010.

Pollution Prevention and Waste Reduction

MCC is committed to pollution prevention, waste elimination and recycling, and has taken steps to minimize waste and encourage conservation. In FY 2016, MCC:

- ★ Responsibly disposed of all furniture and fixtures from the two vacated leased facilities;
- ★ Continued to operate all its network printers with the default set to duplex (double-sided) printing and no cover sheet printing;
- ★ Continued use of environmentally preferable soy-based inks;
- ★ Continued use of 100 percent post-consumer recycled content, acid- and elemental chlorine-free, Forest Stewardship Council certified paper;
- ★ Maintained its lease in one ENERGY STAR building through December and then moved into a single building with ENERGY STAR labeled, LEED-certified Gold;
- ★ Maintained a leased hybrid fleet vehicle;
- ★ Implemented internal communications campaigns to raise awareness of employee contributions to conservation;
- ★ Continued to offer a commuter subsidy program to encourage use of public transportation; and
- ★ Participated in recycling programs with vendors, including toner and cell phone recycling.

Sustainable Acquisition

E.O. 13514 required agencies to advance sustainable acquisition and ensure that 95 percent of applicable new contract actions meet Federal mandates for acquiring products that are energy efficient, water efficient, bio based, environmentally preferable, non-ozone depleting, recycled content, or are non-toxic or less toxic alternatives, where these products meet performance requirements. MCC's CGM division procures all of MCC's headquarters requirements and processes all of MCC's Federal Acquisition Regulation-based contract actions. MCC does not procure any direct supplies or products other than commercial office supplies. The majority of MCC's contract actions are for services, commercial and other, not supplies and products. Therefore, the primary way in which sustainable acquisition requirements could potentially impact MCC and its contractors are in service contracts that contain Other Direct Costs (ODCs) that may involve procurement of commercial office supplies by contractors with Government funds under time and materials contracts and in micro purchases conducted using the Government purchase card.

For micro purchases, MCC has emphasized the need to procure sustainable and bio based products in its purchase card program's Standard Operating Procedures (SOPs), including links and explanations as to what constitutes a sustainable product through the EPA Comprehensive Procurement Guidelines and the U.S. Department of Agriculture Bio preferred program. MCC will ensure these SOPs are updated in FY 2016 to reflect the requirements for sustainable acquisitions in E.O. 13693. MCC has also required use of the Federal Strategic Sourcing Initiative blanket purchase agreements for purchasing office supplies, further strengthening MCC's current and future compliance.

Electronic Stewardship and Data Centers

Under the stewardship of its Chief Information Officer (CIO), MCC's core information systems and data services have been substantially virtualized and transitioned to cloud based services or to a commercial facility, which has enabled the Agency to minimize IT-related infrastructure and to access surge capacity as needed. In addition, MCC uses "software as a service" and federal shared services for the Agency's office applications, financial system, procurement system, audit tracking systems, and video collaboration

systems. Through these efforts, MCC's continues to optimize and reduce its IT-related equipment, infrastructure, and electricity consumption.

MCC utilized the FY 2016 relocation to new quarters to take a major step in consolidating copying and printing services to shared multi-function devices resulting in a 50 percent decrease in personal printers. The agency expects the consolidation to reduce device energy and toner cartridge consumption, as well as total agency copy and print service costs.

MCC's relocation also prompted the Agency to identify and dispose of unneeded personal property and IT equipment. Four rounds of disposal activities were conducted from May through December 2015. MCC adhered to the General Services Administration's (GSA) Personal Property Management Program and closely coordinated efforts with GSA Property Disposal Specialists.

Climate Change Resilience

MCC is committed to helping its partner countries achieve effective and sustainable development outcomes. Through its compact programs, MCC helps them achieve climate resilient, low carbon, economic development where it is both consistent and within MCC's core mission of reducing poverty through economic growth that is economically and technically feasible.

Under MCC's *Compact Development Guidance*, the Agency addresses requirements for climate change risks and opportunities in the design, implementation, and monitoring of projects resulting from its investments. The requirements encourage partner countries to assess climate risks and vulnerabilities early in the compact development process and, where relevant, incorporate cost effective adaptation measures into their MCC poverty reduction programs that will improve environmental and social performance and promote more sustainable development outcomes.

Challenges

As a tenant in a leased facilities since 2005, MCC does not have independent power metering and therefore does not have the necessary level of control or data to adequately measure the agency's energy consumption or the impact conservation efforts have had.

- ★ **Monitor MCC headquarters' utility consumption** – In cooperation with the lessor of MCC's new space, develop procedures to implement reporting and monitoring of MCC's utility consumption. Data will be used to assess utility-saving proposals and evaluate the results of initiative undertaken. In the meantime, the lessor also has a plan for conservation of energy based on the building being certified LEED Gold.
- ★ **Update MCC's procurement policies and guidance** – Updates to further reflect and meet the requirements for sustainable acquisition pursuant to E.O. 13693.
- ★ **Promote telework.**

Accomplishment:

In FY 2016 MCC completed the move to the new facility achieving the projected 16 percent decrease in the overall footprint of the agency's headquarters location. While a baseline for energy utilization is not possible due to the lease nature of the agency's prior headquarters facilities, MCC has actively deployed lighting management controls in the new facilities to provide insight going forward. Since the system was brought online in December of 2016, MCC has achieved a savings of 12 percent in lighting power.

Size & Scope of Agency Operations

Agency Size and Scope	FY 2014	FY 2015
Total Number of Employees as Reported in the President’s Budget	300	300
Total Acres of Land Managed	0	0
Total Number of Buildings Owned	0	0
Total Number of Building Leased (GSA and Non-GSA Lease)	2*	2*
Total Building Gross Square Feet (GSF)	0	0
Operates in Number of Locations Throughout U.S.	1	1
Operates in Number of Locations Outside of the U.S.	n/a	n/a
Total Number of Fleet Vehicles Owned	0	0
Total Number of Fleet Vehicles Leased	1	1
Total Number of Exempted-Fleet Vehicles (Tactical, Law Enforcement, Emergency, Etc.)	0	0
Total Amount Contracts Awarded as Reported in FPDS (\$ Millions)	\$94.6M	\$79.2M
*leased space within private building		

Agency Progress and Strategies to Meet Federal Sustainability Goals

This section provides an overview of progress through FY 2015 on sustainability goals contained in Executive Order 13514, *Federal Leadership in Environmental, Energy, and Economic Performance*, and agency strategies to meet the new and updated goals established by Executive Order 13693, *Planning for Federal Sustainability in the Next Decade*.

Goal 1: Greenhouse Gas (GHG) Reduction

Scope 1 & 2 GHG Reduction Goal

E.O. 13693 requires each agency to establish a Scope 1 & 2 GHG emissions reduction target to be achieved by FY 2025 compared to a 2008 baseline. Millennium Challenge Corporation’s 2025 Scope 1 & 2 GHG reduction target is 10 percent.

Chart: Progress toward Scope 1 & 2 GHG Reduction Goal

CHART WAS NOT PROVIDED BY CEQ

MCC neither owns nor controls any significant sources of direct greenhouse gas emissions. Through mid-December 2015, MCC leased 129,206 square feet of commercial space in two adjacent commercial downtown Washington, D.C. office buildings. Electricity consumption in both buildings was centrally metered and shared with other lessees. MCC also leases and operates a single E85-fueled hybrid vehicle. Given these circumstances, Scope 1 and Scope 2 greenhouse gas (GHG) emissions targeting do not apply to MCC.

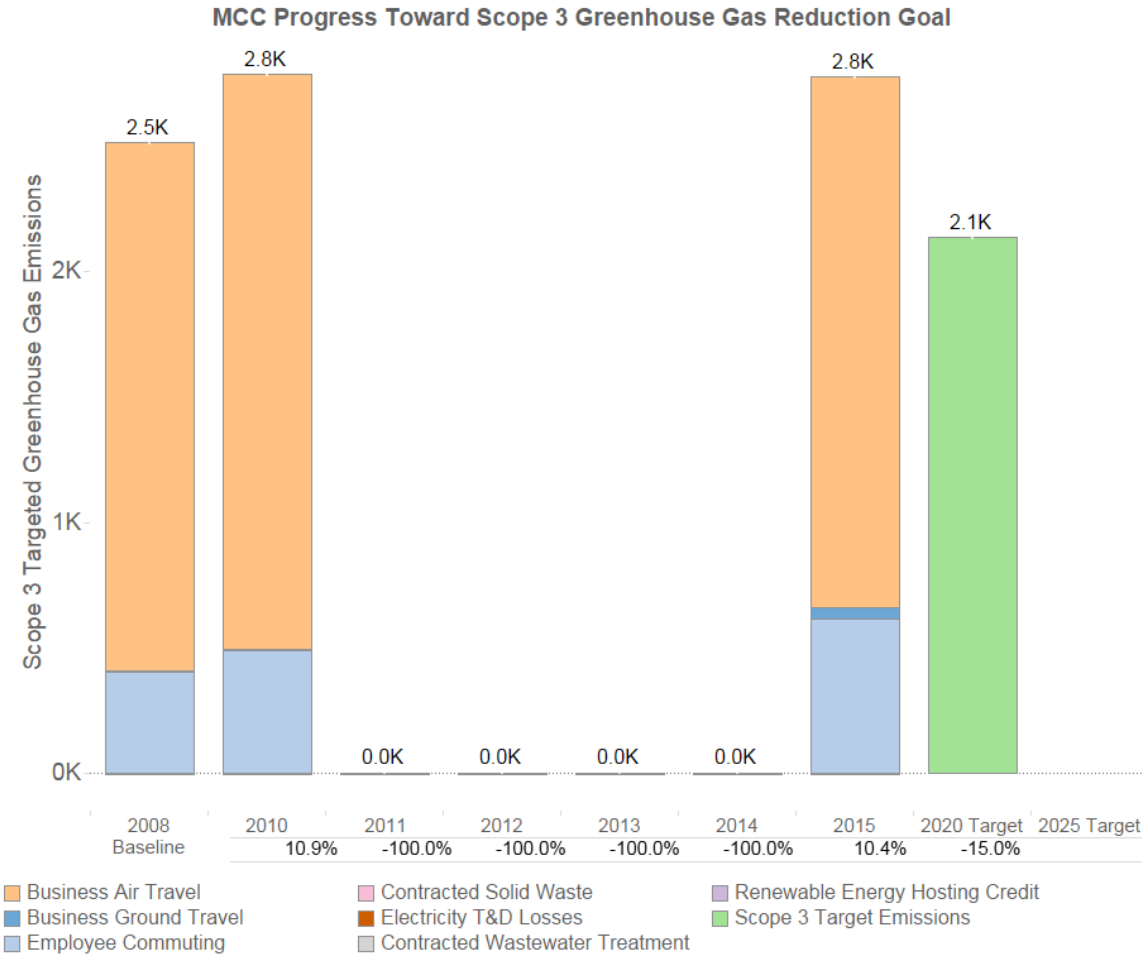
Scope 1 & 2 GHG Reduction Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Use the Federal Energy Management Program (FEMP) GHG emission report to identify/target high emission categories and implement specific actions to address high emission areas identified.	N/A		
Identify and support management practices or training programs that encourage employee engagement in addressing GHG reduction.	N/A		
Determine unsuccessful programs or measures to be discontinued to better allocate agency resources.	N/A		
Given agency performance to date, determine whether current agency GHG target should be revised to a more aggressive/ambitious target.	N/A		
Employ operations and management (O&M) best practices for emission generating and energy consuming equipment.	N/A		
Identify additional sources of data or analysis with the potential to support GHG reduction goals.	N/A		

Scope 3 GHG Reduction Goal

E.O. 13693 requires each agency to establish a Scope 3 GHG emission reduction target to be achieved by FY 2025 compared to a 2008 baseline. Millennium Challenge Corporation’s 2025 Scope 3 GHG reduction target is three percent. MCC is a small agency with its mission focused on international assistance; therefore, air travel is a necessity that cannot be eliminated but is controlled.

Chart: Progress toward Scope 3 GHG Reduction Goal



MCC’s Scope 3 target greenhouse gas (GHG) emissions derive from agency air travel*, fleet operation and commuter travel. Fleet operation is nominal as there is one hybrid vehicle with minimal use in the DMV area. Commuter travel on public transportation is 66 percent of the agency, walk/bike is roughly 10 percent and the remainder are in carpools/private cars.

*Appendix A – Business Air Travel chart

Scope 3 GHG Reduction Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Reduce employee business ground travel.	Yes	Encourage managers to fully utilize telework policy and telework agreements which if utilized would reduce travel into office by up to 50% per pay period. Current policy allows up to five (5) workdays per pay period of ten (10) workdays	Target to have up to 20 percent of agency fully utilizing a regular telework schedule. Require telework utilization reports from timesheet review on a quarterly basis.
Reduce employee business air travel.	Yes	Maximize the use of unified communications tools, like Skype of Business and Cisco WebEx, to conduct meetings and collaboration with MCC on-site, remote and overseas users, as well as MCC and other federal government and industry business partners. This capability would support workstation and mobile devices	
Develop and deploy an employee commuter emissions reduction plan.	N/A	Agency Qualified Transportation Fringe Benefit provides a full commuter benefit to employees, interns and PSCs with 75 percent of participants commuting on various modes of public transportation, carpool, bike or walking.	N/A
Use an employee commuting survey to identify opportunities and strategies for reducing commuter emissions.	Yes	Survey will gather information on: <ul style="list-style-type: none"> • Distance traveled • Transportation mode and point of origin • Use of hybrid and electric vehicles 	The results will serve as a new baseline for the agency since the move to our new location.

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Increase & track number of employees eligible for telework and/or the total number of days teleworked.	Yes	<p>Expand use of IT capabilities such as SKYPE to improve connectivity and communication with teleworking staff.</p> <p>Utilize quarterly reporting to assess adoption rates on number of employees participating in telework, total staff telework days per pay period, number of staff participating at "full" level.</p>	Target up to 20 percent of agency participating in a regular telework schedule of five (5) telework days per pay period.
Develop and implement a program to support alternative/zero emissions commuting methods and provide necessary infrastructure.	Yes	Encourage use of bike racks for employees that are within biking radius. MCC is located in a building that offers a secure bike cage and lockers to encourage biking as an alternative mode of transportation.	N/A
Establish policies and programs to facilitate workplace charging for employee electric vehicles.	N/A	MCC neither owns nor operates the building or parking garage.	N/A
Include requirements for building lessor disclosure of carbon emission or energy consumption data and report Scope 3 GHG emissions for leases over 10,000 rentable square feet.	Yes	Building is a LEED Gold certified and reports their consumption to retain status.	N/A

Goal 2: Sustainable Buildings

Building Energy Conservation Goal

The Energy Independence and Security Act of 2007 (EISA) requires each agency to reduce energy intensity 30% by FY 2015 as compared to FY 2003 baseline. Section 3(a) of E.O. 13693 requires agencies to promote building energy conservation, efficiency, and management and reduce building energy intensity by 2.5% annually through the end of FY 2025, relative to a FY 2015 baseline and taking into account agency progress to date, except where revised pursuant to Section 9(f) of E.O. 13693.

Chart: Progress toward Facility Energy Intensity Reduction Goal

CHART WAS NOT PROVIDED BY CEQ

MCC does not own or operate any buildings subject to the EISA; however, it leases space at Franklin Court, 1099 14th Street, NW, Washington, DC 2005. Franklin Court has achieved LEED Gold which is the highest status for Building energy conservation strategies. Additionally, MCC's new space was built to LEED Gold standards and therefore is adhering to not only the minimal standards but setting the goal to achieve the highest standards in space energy conservation.

Building Energy Conservation Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Make energy efficiency investments in agency buildings.	N/A		
Use remote building energy performance assessment auditing technology	N/A		
Participate in demand management programs.	N/A		
Incorporate Green Button data access system into reporting, data analytics, and automation processes.	N/A		
Redesign interior space to reduce energy use through daylighting, space optimization, and sensors and control systems.	N/A		
Identify opportunities to transition test-bed technologies to achieve energy reduction goals.	N/A		

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Follow city energy performance benchmarking and reporting requirements.	N/A		
Install and monitor energy meters and sub-meters.	N/A		
Collect and utilize building and facility energy use data to improve building energy management and performance.	N/A		
Ensure that monthly performance data is entered into the EPA ENERGY STAR Portfolio Manager.	N/A		

Building Efficiency, Performance, and Management Goal

Section 3(h) of E.O. 13693 states that agencies will improve building efficiency, performance, and management and requires that agencies identify a percentage of the agency’s existing buildings above 5,000 gross square feet intended to be energy, waste, or water net-zero buildings by FY 2025 and implementing actions that will allow those buildings to meet that target. Millennium Challenge Corporation’s 2025 target is zero percent as it does own or operate any buildings subject to facility energy goals.

Guiding Principles for Sustainable Federal Buildings

Section 3(h) of E.O. 13693 also states that agencies will identify a percentage, by number or total GSF, of existing buildings above 5,000 GSF that will comply with the *Guiding Principles for Sustainable Federal Buildings (Guiding Principles)* by FY 2025.

Millennium Challenge Corporation’s FY 2025 target is zero percent as it does not own or operate any buildings subject to facility energy goals.

(Agencies’ 2025 targets should be at least 10% higher than current (2015) level of achievement.)

Chart: Percent of Buildings Meeting the Guiding Principles

CHART WAS NOT PROVIDED BY CEQ

MCC does not own or operate any buildings subject to the Guiding Principles for Sustainable Federal Buildings; however, it leases space at Franklin Court, 1099 14th Street, NW, Washington, DC 2005. Franklin Court has achieved LEED Gold which is the highest status for Building energy conservation strategies. Additionally, MCC’s new space was built to LEED Gold standards and therefore is adhering to not only the minimal standards but setting the goal to achieve the highest standards in space energy conservation.

Sustainable Buildings Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Include climate resilient design and management into the operation, repair, and renovation of existing agency buildings and the design of new buildings.	N/A	MCC neither owns nor operates the building; however, this was incorporated in design of new space within the building.	N/A
In planning new facilities or leases, include cost-effective strategies to optimize sustainable space utilization and consideration of existing community transportation planning and infrastructure, including access to public transit.	N/A	Was incorporated in design of new space. Building is located within a block radius of McPherson Square metro stop.	N/A
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.	N/A	MCC neither owns nor operates the building. The building in which MCC leases space is LEED Gold certified.	N/A
Include criteria for energy efficiency as a performance specification or source selection evaluation factor in all new agency lease solicitations over 10,000 rentable square feet.	N/A	Energy efficiency was included in the RLP and source selected in a LEED Gold certified building with our leased space built out at LEED Gold.	N/A
Incorporate green building specifications into all new construction, modernization, and major renovation projects.	N/A	Building and build-out is at LEED Gold standards	N/A
Implement space utilization and optimization practices and policies.	Yes	MCC has developed space utilization practices and policies to incorporate telework, hot desking, etc.	N/A

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Implement programs on occupant health and well-being in accordance with the <i>Guiding Principles</i> .	Yes	The Office of Human Resources strives to promote Health and Wellness Programs for all employees. The following events are scheduled for 2016: <ul style="list-style-type: none"> • Step Challenge – June 2016 • Wellness Fair – July 2016 • Fitness Classes –TBD (Aug. 2016) • Fall Fitness Challenges – Sept. and Oct. 2016 • Annual Health Fair – Nov. 2016 	

Goal 3: Clean & Renewable Energy

Clean Energy Goal

E.O. 13693 Section 3(b) requires that, at a minimum, the percentage of an agency’s total electric and thermal energy accounted for by renewable and alternative energy shall be not less than: 10% in FY 2016-17; 13% in FY 2018-19; 16% in FY 2020-21; 20% in FY 2022-23; and 25% by FY 2025.

Renewable Electric Energy Goal

E.O. 13693 Section 3(c) requires that renewable energy account for not less than 10% of total electric energy consumed by an agency in FY 2016-17; 15% in FY 2018-19; 20% in FY 2020-21; 25% in FY 2022-23; and 30% by 2025.

Chart: Use of Renewable Energy as a Percentage of Total Electric Energy

CHART WAS NOT PROVIDED BY CEQ

MCC does not own or operate any buildings subject to the facility clean and renewable energy goal; however, it leases space at Franklin Court, 1099 14th Street, NW, Washington, DC 20005. Franklin Court has achieved LEED Gold which is the highest status for Building energy conservation strategies. Additionally, MCC’s new space was built to LEED Gold standards and therefore is adhering to not only the minimal standards but setting the goal to achieve the highest standards in space energy conservation.

Clean and Renewable Energy Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Install agency-funded renewable on-site and retain corresponding renewable energy certificates (RECs).	N/A		
Contract for the purchase of energy that includes installation of renewable energy on or off-site and retain RECs or obtain replacement RECs.	N/A		
Purchase electricity and corresponding RECs or obtain equal value replacement RECs.	N/A		
Purchase RECs to supplement installations and purchases of renewable energy, when needed to achieve renewable goals.	N/A		
Install on-site thermal renewable energy and retain corresponding renewable attributes or obtain equal value replacement RECs.	N/A		
Install on-site combined heat and power processes.	N/A		
Identify opportunities to install on-site fuel cell energy systems.	N/A		
Identify opportunities to utilize energy that includes the active capture and storage of carbon dioxide emissions associated with energy generation.	N/A		
Identify and analyze opportunities to install or contract for energy installed on current or formerly contaminated lands, landfills, and mine sites.	N/A		
Identify opportunities to utilize energy from small modular nuclear reactor technologies.	N/A		

Goal 4: Water Use Efficiency & Management

Potable Water Consumption Intensity Goal

E.O. 13693 Section 3(f) states that agencies must improve water use efficiency and management, including storm water management, and requires agencies to reduce potable water consumption intensity, measured in gallons per square foot, by 2% annually through FY 2025 relative to an FY 2007 baseline. A 36% reduction is required by FY 2025.

Industrial, Landscaping and Agricultural (ILA) Water Goal

E.O. 13693 section 3(f) also requires that agencies reduce ILA water consumption, measured in gallons, by 2% annually through FY 2025 relative to a FY 2010 baseline.

Chart: Progress toward the Potable Water Intensity Reduction Goal

CHART WAS NOT PROVIDED BY CEQ

MCC does not own or operate any buildings subject to the potable water intensity reduction goal; however, it leases space at Franklin Court, 1099 14th Street, NW, Washington, DC 20005. Franklin Court has achieved LEED Gold which is the highest status for Building energy conservation strategies. Additionally, MCC's new space was built to LEED Gold standards and therefore is adhering to not only the minimal standards but setting the goal to achieve the highest standards in space energy conservation.

Water Use Efficiency & Management Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Install green infrastructure features to assist with storm and wastewater management.	N/A		
Install and monitor water meters and utilize data to advance water conservation and management.	N/A		
Install high efficiency technologies, e.g. WaterSense fixtures.	N/A		
Prepare and implement a water asset management plan to maintain desired level of service at lowest life cycle cost.	N/A		
Minimize outdoor water use and use alternative water sources as much as possible.	N/A		
Design and deploy water closed-loop, capture, recharge, and/or reclamation systems.	N/A		
Install advanced meters to measure and monitor potable and ILA water use.	N/A		
Develop and implement programs to educate employees about methods to minimize water use.	N/A		
Assess the interconnections and dependencies of energy and water on agency operations, particularly climate change's effects on water which may impact energy use.	N/A		
Consistent with State law, maximize use of grey-water and water reuse systems that reduce potable and ILA water consumption.	N/A		
Consistent with State law, identify opportunities for aquifer storage and recovery to ensure consistent water supply availability.	N/A		
Ensure that planned energy efficiency improvements consider associated opportunities for water conservation.	N/A		

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Where appropriate, identify and implement regional and local drought management and preparedness strategies that reduce agency water consumption	N/A		

Goal 5: Fleet Management

Fleet Petroleum Use Reduction Goal

E.O. 13514 and the Energy Independence and Security Act of 2007 (EISA) required that by FY 2015 agencies reduce fleet petroleum use by 20% compared to a FY 2005 baseline.

Chart: Progress toward the Petroleum Reduction Goal

CHART WAS NOT PROVIDED BY CEQ

Fleet Alternative Fuel Consumption Goal

Agencies should have exceeded an alternative fuel use that is at least 5% of total fuel use. In addition, E.O. 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, required that agencies increase total alternative fuel consumption by 10% annually from the prior year starting in FY 2005. By FY 2015, agencies must have increased alternative fuel use by 159.4%, relative to FY 2005.

MCC does not own or lease a vehicle fleet of sufficient size, it has one leased vehicle which is a hybrid and travels less than 150 miles per month.

(Agencies that have not exceeded 5% of total fuel should address strategies to increase alternative fuel use in the sections below).

Fleet Per-Mile Greenhouse Gas (GHG) Emissions Goal

E.O. 13693 Section 3(g) states that agencies with a fleet of at least 20 motor vehicles will improve fleet and vehicle efficiency and management. E.O. 13693 section 3(g) (ii) requires agencies to reduce fleet-wide per-mile GHG emissions from agency fleet vehicles relative to a FY 2014 baseline and sets new goals for percentage reductions: not less than 4% by FY 2017; not less than 15 % by FY 2020; and not less than 30% by FY 2025.

E.O. 13693 Section 3(g) (i) requires that agencies determine the optimum fleet inventory, emphasizing eliminating unnecessary or non-essential vehicles. The Fleet Management Plan and Vehicle Allocation Methodology (VAM) Report are included as appendices to this plan.

Chart: Fleet-wide Per-mile GHG Emissions

CHART WAS NOT PROVIDED BY CEQ

Millennium Challenge Corporation is a small agency with one (1) leased fleet vehicle for a five-year period of performance. The vehicle’s use is monitored and limited by policy for the CEO and senior management use only.

Fleet Management Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Collect and utilize agency fleet operational data through deployment of vehicle telematics.	No	Driver maintains a mileage log for the one (1) fleet vehicle. Telematics is not required as the vehicle is used solely in the Washington, DC area.	N/A
Ensure that agency annual asset-level fleet data is properly and accurately accounted for in a formal Fleet Management Information System as well as submitted to the Federal Automotive Statistical Tool reporting database, the Federal Motor Vehicle Registration System, and the Fleet Sustainability Dashboard (FLEETDASH) system.	N/A	Agency maintains one leased vehicle for use by CEO and senior management.	N/A
Increase acquisitions of zero emission and plug-in hybrid vehicles.	N/A	Vehicle is under a new five-year lease; however when the lease expires in 2021 we will investigate a plug-in hybrid if recharging stations become readily available in the Washington, DC area.	N/A
Issue agency policy and a plan to install appropriate charging or refueling infrastructure for zero emission or plug-in hybrid vehicles and opportunities for ancillary services to support vehicle-to-grid technology.	N/A	MCC does not own or lease the building garage facility.	N/A
Optimize and right-size fleet composition, by reducing vehicle size, eliminating underutilized vehicles, and acquiring and locating vehicles to match local fuel infrastructure.	No	Agency is right-sized with one (1) leased vehicle and monitored usage.	N/A

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Increase utilization of alternative fuel in dual-fuel vehicles.	N/A	Stations that provide such fuel are not available in the Washington, DC area.	N/A
Use a FMIS to track real-time fuel consumption throughout the year for agency-owned, GSA-leased, and commercially-leased vehicles.	Yes	Driver maintains a log of mileage per trip and fleet card log of gas purchased. The records are maintained as part of the agency purchase card program.	Target to reduce the monthly average use of 200 miles.
Implement vehicle idle mitigation technologies.	N/A		
Minimize use of law enforcement exemptions by implementing GSA Bulletin FMR B-33, <i>Motor Vehicle Management, and Alternative Fuel Vehicle Guidance for Law Enforcement and Emergency Vehicle Fleets</i> .	N/A		
Where State vehicle or fleet technology or fueling infrastructure policies are in place, meet minimum requirements.	N/A		
Establish policy/plan to reduce miles traveled, e.g. through vehicle sharing, improving routing with telematics, eliminating trips, improving scheduling, and using shuttles, etc.	N/A	Agency has policy in place to limit the use of the fleet vehicle to CEO and senior managers.	

Goal 6: Sustainable Acquisition

Sustainable Acquisition Goal

E.O. 13693 section 3(i) requires agencies to promote sustainable acquisition by ensuring that environmental performance and sustainability factors are considered to the maximum extent practicable for all applicable procurements in the planning, award and execution phases of acquisition.

Biobased Purchasing Targets

The Agricultural Act of 2014 requires that agencies establish a targeted biobased-only procurement requirement. E.O. 13693 section 3(iv) requires agencies to establish an annual target for increasing the number of contracts to be awarded with BioPreferred and biobased criteria and the dollar value of BioPreferred and biobased products to be delivered and reported under those contracts in the following fiscal year.

For FY 2017, (Agency) has established a target of zero contracts and \$zero in products to be delivered.

Note: to meet the requirement of the Agricultural Act of 2014 (2014 Farm Bill), all agencies should include targets, even if they achieved 95% biobased purchasing compliance in FY 2015.

Chart: Percent of Applicable Contracts Containing Sustainable Acquisition Requirements

CHART WAS NOT PROVIDED BY CEQ

Millennium Challenge Corporation does not procure items that are subject to The Agricultural Act of 2014.

Sustainable Acquisition Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
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.	Yes	MCC has established its policy in an acquisition instruction to meet these guidelines, even though MCC does not directly procure these products. MCC procures almost entirely professional services and does not procure goods and products that would be affected	MCC will review its policy to determine if any updates need to be made.
Establish and implement policies to purchase sustainable products and services identified by EPA programs, including SNAP, WaterSense, Safer Choice, and Smart Way.	Yes	Agency is in a LEED Gold building and adheres to those standards with the purchase and use of sustainable products and services.	
Establish and implement policies to purchase environmentally preferable products and services that meet or exceed specifications, standards, or labels recommended by EPA.	Yes	Agency as a practice purchases environmentally preferable products from cleaning supplies, paper and office supplies.	
Use Category Management Initiatives and government-wide acquisition vehicles that already include sustainable acquisition criteria.	Yes	MCC uses GWAC and FSS vehicles whenever possible to ensure sustainable acquisition criteria are met. MCC procures almost entirely professional services and does not procure goods and products that would be affected.	MCC will introduce a market research form to determine and note rationale for whenever one of these vehicles is not utilized.

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Ensure contractors submit timely annual reports of their BioPreferred and biobased purchases.	N/A		
Reduce copier and printing paper use and acquiring uncoated printing and writing paper containing at least 30 percent postconsumer recycled content or higher.	Yes	<p>Agency continues to purchase 30+ percent postconsumer recycled as well as FSC certified “gold” standard for responsible forestry.</p> <p>The printer/copiers are set to double-side to reduce the amount of paper consumed, and, the number of personal printers will remain at a reduced level.</p>	
Identify and implement corrective actions to address barriers to increasing sustainable acquisitions.	N/A	MCC has not identified any such barriers as MCC procures almost entirely professional services and does not procure goods and products that would be affected.	N/A
Improve quality of data and tracking of sustainable acquisition through the Federal Procurement Data System (FPDS).	N/A	MCC does not have any such issues around the quality of data as MCC procures almost entirely professional services and does not procure goods and products that would be affected.	N/A
Incorporate compliance with contract sustainability requirements into procedures for monitoring contractor past performance and report on contractor compliance in performance reviews.	N/A	MCC does not have any such issues around contractor compliance as MCC procures almost entirely professional services and does not procure goods and products that would be affected and MCC’s contractors would only acquire commercial office supplies under their contracts.	N/A
Review and update agency specifications to include and encourage products that meet sustainable acquisition criteria.	N/A	MCC has no such specifications as MCC procures almost entirely professional services and does not procure goods and products that would be affected.	N/A

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Identify opportunities to reduce supply chain emissions and incorporate criteria or contractor requirements into procurements.	N/A	MCC has no such supply chain issues as MCC procures almost entirely professional services and does not procure goods and products that would be affected and MCC's contractors would only acquire commercial office supplies under their contracts	N/A

Goal 7: Pollution Prevention & Waste Reduction

Pollution Prevention & Waste Reduction Goal

E.O. 13693 section 3(j) requires that Federal agencies advance waste prevention and pollution prevention and to annually divert at least 50% of non-hazardous construction and demolition debris. Section 3(j) (ii) further requires agencies to divert at least 50% of non-hazardous solid waste, including food and compostable material, and to pursue opportunities for net-zero waste or additional diversion.

Reporting on progress toward the waste diversion goal will begin with annual data for FY 2016.

Pollution Prevention & Waste Reduction Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Report in accordance with the requirements of sections 301 through 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (42 U.S.C 11001-11023).	N/A	Agency does not handle or dispose of chemical or EHS material.	
Reduce or minimize the quantity of toxic and hazardous chemicals acquired, used, or disposed of, particularly where such reduction will assist the agency in pursuing agency greenhouse gas reduction targets.	N/A	Agency does not handle toxic or hazardous chemicals.	
Eliminate, reduce, or recover refrigerants and other fugitive emissions.	N/A		

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Reduce waste generation through elimination, source reduction, and recycling.	Yes	<p>Agency is in leased space and continues to participate in the LEED Gold building programs for recycling.</p> <p>Agency is diligent in all programs in source reduction for its supplies and equipment.</p>	
Implement integrated pest management and improved landscape management practices to reduce and eliminate the use of toxic and hazardous chemicals and materials.	N/A	Agency is in a leased LEED Gold building within Washington, DC with no landscape management.	
Develop or revise Agency Chemicals Inventory Plans and identify and deploy chemical elimination, substitution, and/or management opportunities.	N/A	<p>Agency does not procure or handle chemicals.</p> <p>The toners for our equipment are soy based and disposed of in a prescribed manner.</p>	
Inventory current HFC use and purchases.	N/A		
Require high-level waiver or contract approval for any agency use of HFCs.	N/A		
Ensure HFC management training and recycling equipment are available.	N/A		

Goal 8: Energy Performance Contracts

Performance Contracting Goal

E.O. 13693 section 3(k) requires that agencies implement performance contracts for Federal buildings. E.O. 13693 section 3(k) (iii) also requires that agencies provide annual agency targets for performance contracting. MCC’s commitment under the President’s Performance Contracting Challenge is zero (see paragraph below) in contracts awarded by the end of calendar year 2016. MCC’s targets for the next two fiscal years are:

FY 2017: \$ N/A (insert target for FY 2017)

FY 2018: \$ N/A (insert target for FY 2018)

Chart: Progress toward Target under the President’s Performance Contracting Challenge

CHART WAS NOT PROVIDED BY CEQ

MCC does not own or operate any buildings subject to the President’s Performance Contracting goal; however, it leases space at Franklin Court, 1099 14th Street, NW, Washington, DC 2005. Franklin Court has achieved LEED Gold which is the highest status for Building energy conservation strategies. Additionally, MCC’s new space was built to LEED Gold standards and therefore is adhering to not only the minimal standards but setting the goal to achieve the highest standards in space energy conservation.

Performance Contracting Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Utilize performance contracting to meet identified energy efficiency and management goals while deploying life-cycle cost effective energy and clean energy technology and water conservation measures.	N/A		
Fulfill existing agency target/ commitments towards the PPCC by the end of CY16.	N/A		
Evaluate 25% of agency’s most energy intensive buildings for opportunities to use ESPCs/UESCs to achieve goals.	N/A		
Prioritize top ten portfolio wide projects which will provide greatest energy savings potential.	N/A		

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Identify and commit to include onsite renewable energy projects in a percentage of energy performance contracts.	N/A		
Submit proposals for technical or financial assistance to FEMP and/ or use FEMP resources to improve performance contracting program.	N/A		
Work with FEMP/USACE to cut cycle time of performance contracting process, targeting a minimum 25% reduction.	N/A		
Ensure agency legal and procurement staff are trained by the FEMP ESPC/ UESC course curriculum.	N/A		

Goal 9: Electronics Stewardship & Data Centers

Electronics Stewardship Goals

E.O. 13693 Section 3(l) requires that agencies promote electronics stewardship, including procurement preference for environmentally sustainable electronic products; establishing and implementing policies to enable power management, duplex printing, and other energy efficient or environmentally sustainable features on all eligible agency electronic products; and employing environmentally sound practices with respect to the agency's disposition of all agency excess or surplus electronic products.

Agency Progress in Meeting Electronics Stewardship Goals

If your agency cannot track performance agency-wide, do not fill in a percentage. Instead, under status, note "(Agency) does not have agency-wide systems in place to track performance for this goal."

Procurement Goal:

At least 95% of monitors, PCs, and laptops acquired meets environmentally sustainable electronics criteria (EPEAT registered).

FY 2015 Progress: 95% as of Sept 30th 2015, attained 99% by January 1st 2016 through the turn in and decommissioning of legacy IT/AV equipment and complete refresh of HP 9480/9470 laptop refresh that began in FY 2015, Dell 19 in. P1914S flat screen monitors in FY 2016 and HP 425DN color LaserJet printers in FY2016. All have an EPEAT rating.

Power Management Goal:

100% of computers, laptops, and monitors has power management features enabled.

FY 2015 Progress: 100% of equipment has power management enabled.

0% of equipment has been exempted.

End-of-Life Goal:

100% of electronics disposed using environmentally sound methods, including GSA Xcess, Computers for Learning, Unicor, U.S. Postal Service Blue Earth Recycling Program, or Certified Recycler (R2 or E-Stewards).

FY 2015 Progress: 100% - of legacy and excess IT infrastructure and end-user equipment was disposed of through GSA during February 2015 through January 2016 timeframe.

Data Center Efficiency Goal

E.O. 13693 Section 3(a) states that agencies must improve data center efficiency at agency facilities, and requires that agencies establish a power usage effectiveness target in the range of 1.2-1.4 for new data centers and less than 1.5 for existing data centers.

Electronics Stewardship Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Use government-wide strategic sourcing vehicles to ensure procurement of equipment that meets sustainable electronics criteria.	Yes	CGM always ensures that government-wide strategic sourcing vehicles or FSS vehicles are used for procurement of all equipment and electronics to the maximum extent practicable, but MCC procures relatively few of these items.	Utilize appropriate contracting vehicle to procure IT infrastructure and end-user computing vehicles
Enable and maintain power management on all eligible electronics; measure and report compliance.	Yes	See appendix A for light harvesting system that was installed in new build-out space.	Utilize the capability for electronic devices to go into sleep or hibernation mode when not in use
Implement automatic duplexing and other print management features on all eligible agency computers and imaging equipment; measure and report compliance.	Yes	Agency's print management includes a defaulted duplexing with options to further reduce with 2-1 side duplex, and, locked printer function that requires personnel to be at machine to print vs auto print.	Target in FY17 copier fleet acquisition to require the locked print feature as a print management tool.

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Ensure environmentally sound disposition of all agency excess and surplus electronics, consistent with Federal policies on disposal of electronic assets, and measure and report compliance.	Yes	All excess IT infrastructure and end-user equipment will be turned-in to GSA, utilizing the SF-120 form and entries will be made in ServiceNow to reflect disposal	
Improve tracking and reporting systems for electronics stewardship requirements through the lifecycle: acquisition and procurement, operations and maintenance, and end-of-life management.	Yes	Copier/printers are leased for a 5-year term.	Current copier/printer fleet will be at the end of the 5-year contract. Agency will include in procurement the standard Energy Star plus requirements for new machines.

Data Center Efficiency Strategies

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Develop, issue and implement policies, procedures and guidance for data center energy optimization, efficiency, and performance.	N/A	MCC does not own or operate DataCenters	
Install and monitor advanced energy meters in all data centers (by fiscal year 2018) and actively manage energy and power usage effectiveness.	N/A	MCC does not own or operate DataCenters	
Minimize total cost of ownership in data center and cloud computing operations.	N/A	MCC does not own or operate DataCenters	
Identify, consolidate and migrate obsolete, underutilized and inefficient data centers to more efficient data centers or cloud providers; close unneeded data centers.	N/A	MCC does not own or operate DataCenters	
Improve data center temperature and air-flow management to capture energy savings.	N/A	MCC does not own or operate DataCenters	
Assign certified Data Center Energy Practitioner(s) to manage core data center(s).	N/A	MCC does not own or operate DataCenters	

Goal 10: Climate Change Resilience

E.O. 13653, *Preparing the United States for the Impacts of Climate Change*, outlines Federal agency responsibilities in the areas of supporting climate resilient investment; managing lands and waters for climate preparedness and resilience; providing information, data and tools for climate change preparedness and resilience; and planning.

E.O. 13693 Section 3(h)(viii) states that as part of building efficiency, performance, and management, agencies should incorporate climate-resilient design and management elements into the operation, repair, and renovation of existing agency buildings and the design of new agency buildings. In addition, Section 13(a) requires agencies to identify and address projected impacts of climate change on **mission critical** water, energy, communication, and transportation demands and consider those climate impacts in operational preparedness planning for major agency facilities and operations. Section 13(b) requires agencies to calculate the potential cost and risk to mission associated with agency operations that do not take into account such information and consider that cost in agency decision-making.

Climate Change Resilience Strategies

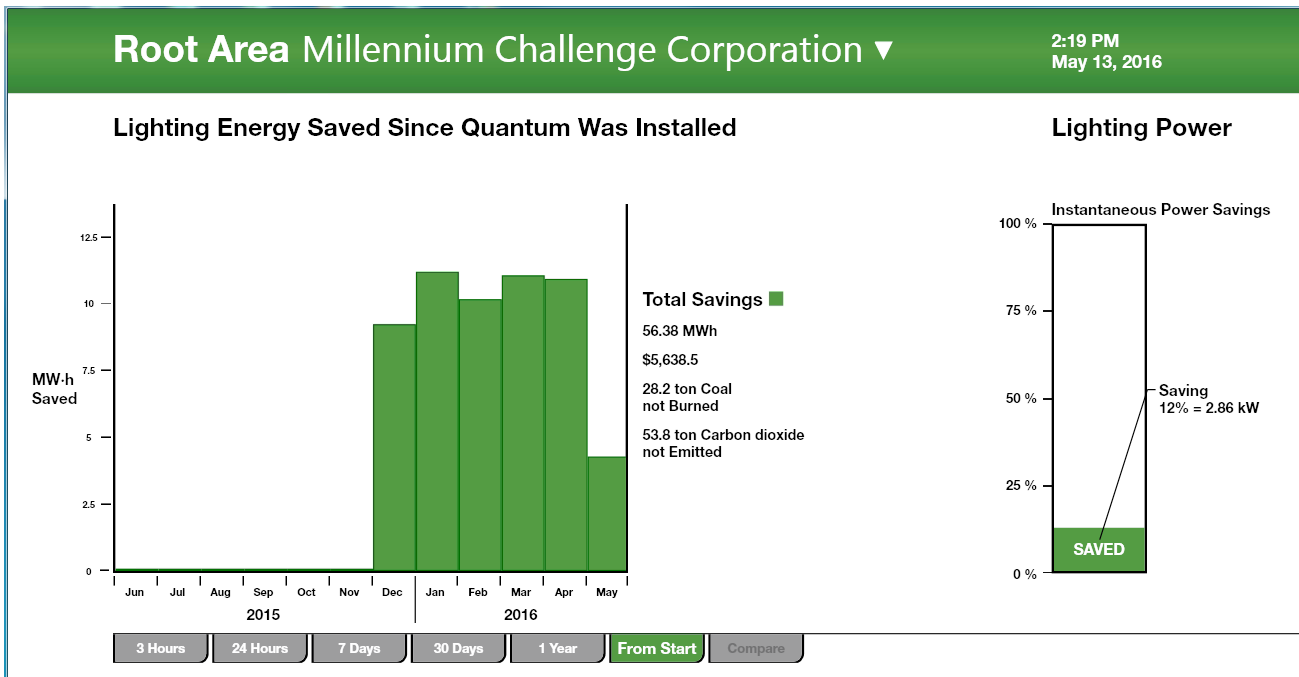
Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Strengthen agency external mission, programs, policies and operations (including grants, loans, technical assistance, etc.) to incentivize planning for, and addressing the impacts of, climate change.	Yes	To facilitate progress toward these objectives, MCC has an active, agency-wide Climate Change Working Group, spearheaded by the environmental and social team and with active engagement from representatives of infrastructure, agriculture, and monitoring and evaluation teams. MCC has identified four broad 2016 priorities: (1) Build it in: integrating climate considerations into MCC business processes; (2) Make it easier and more effective: identifying tools, approaches, and information to better integrate climate change into investment decisions; (3) Improving MCC investments and products. This includes MCC compacts, threshold programs, and technical deliverables; and (4) Creating capacity. After a competitive selection process, MCC has hired a leading firm to create capacity and provide agency wide technical assistance. MCC also plans to collaborate closely with the Inter-Agency Working Group, particularly to explore lessons learned and best practices.	Screen all FY16 investments for climate risks before decisions are made by MCC or MCC's Board of Directors.

Strategy	Priority for FY 2017	Strategy Narrative	Targets and Metrics
Update and strengthen agency internal mission, programs, policies, and operations to align with the Guiding Principles, including facility acquisition, planning, design, training, and asset management processes, to incentivize planning for and addressing the impacts of climate change.	Yes	Agency leases space in a LEED Gold building and has built out to the same standards. Design of space is to efficiently use our natural resources for examples natural lightening flows through the space and thus reduce electrical lightening. Our asset management is reviewed annually and we adhere to proper disposal cycle to ensure that suitable items are recycled, repurposed or reclaimed for use before they are Abandoned/Disposed. The building and agency participate in the waste recycle programs such sorted material of paper, cardboard, batteries, cans, etc.	Target to continue good steward practices and enhance when and if possible.
Update emergency response, health, and safety procedures and protocols to account for projected climate change, including extreme weather events.	Yes	Agency procedures and protocols are monitored and updated as needed as well as annually to ensure the highest standards for response, health and safety of agency personnel.	Target is to continue with annual updates, monitoring and adjustments as needed.
Ensure climate change adaptation is integrated into both agency-wide and regional planning efforts, in coordination with other Federal agencies as well as state and local partners, Tribal governments, and private stakeholders.	Yes	MCC has screened its FY16 investments for climate risks and will continue to do so in FY17. Since October 1, 2015, all investments are screened before they are presented to MCC's Investment Management Committee or Board of Directors (which must approve all MCC investments). Where risks have been identified, MCC is currently in the process of understanding, analyzing, and acting on them.	Screen all MCC investments for climate risks.
Ensure that vulnerable populations potentially impacted by climate change are engaged in agency processes to identify measures addressing relevant climate change impacts.	Yes	MCC engages considers populations vulnerable to climate risks.	
Identify interagency climate tools and platforms used in updating agency programs and policies to encourage or require planning for, and addressing the impacts of, climate change.	Yes	Members of agency's senior staff participate in Small Agency Council and will continue to share ideas in that group.	

Appendix A

Instructions: For the purpose of submitting the Agency Fleet Plan, Climate Adaptation Plan, and Procurement Plan via OMB MAX, please upload appendices as separate documents. When the SSPP is publicly released, appendices should be attached to the document.

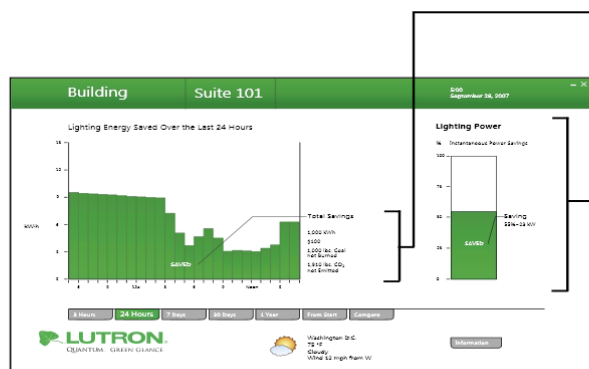
Headquarter – Light Harvesting system:



How Energy Savings Are Calculated Using Lutron's Quantum System

Calculation Definitions

- Energy saved is the energy used subtracted from a custom baseline
- Coal not burned* = 1 lb for each kW-h saved
- Carbon dioxide not released = 1.91 lb for each kW-h saved



Total Savings

Displays various units of savings during selected period of time

• Energy (kW-h) **

Total power used over the displayed period

• Money Saved

Money saved from electricity not used

• Coal not Burned*

Coal not burned because of electricity saved by using Quantum

• Carbon Dioxide not Released

Carbon dioxide not released into the atmosphere because of electricity saved by using Quantum

Lighting Power**

* 70 % of electricity made via burning of fossil fuels; 50 % of that fuel is coal

** Absolute accuracy ± 20 % Accuracy of % difference ± 5 %

Scope 3: Federal Employee Business Air Travel (GHG Target Subject Only)

Appendix A - Technical Support Document

Default Methodology									
Process Type	GHG Type	Composition	Annual GHG Target Subject Emissions	Unit of Measure	Emission Factor CO2	Unit of Measure	Emission Factor CH4	Unit of Measure	Emission Factor N2O
Air Business Travel	GSA Travel MIS	Jet Fuel	0.0	lbs CO2	0.454	kg CO2/lb CO2	0.000014	kg CH4/lbs CO2	0.000017

Sub-Total CO2e	0.0	MT CO2e
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Alternative Methodology								
Process Type	Flight Distance Type	Fuel Type	GHG Target Subject Mileage Air Travel by Segment Type	Unit of Measure	Emission Factor CO2	Unit of Measure	Emission Factor CH4	Unit of Measure
Air Business Travel	Short Haul	Jet Fuel	63,146.0	Passenger miles	0.275	kg CO2/Passenger	0.000009	kg CH4/Passenger
	Medium Haul	Jet Fuel	169,209.0	Passenger miles	0.162	kg CO2/Passenger	0.000001	kg CH4/Passenger
	Long Haul	Jet Fuel	10,739,237.0	Passenger miles	0.191	kg CO2/Passenger	0.000001	kg CH4/Passenger
	Unknown	Jet Fuel	0.0	Passenger miles	0.189	kg CO2/Passenger	0.000001	kg CH4/Passenger

Sub-Total CO2e	2,115.8	MT CO2e
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Source 1: U.S. DOE, Federal Energy Management Program, See at: <http://www1.eere.energy.gov/femp/docs/energydatareportfy09.xls>

Source 2: U.S. DOE, Federal Energy Management Program, Section 9, Technical Support Document

Source 3: GSA Travel MIS Tool

Unit of Measure	Total Quantity Emitted	Total Quantity Emitted	Total Quantity Emitted	Unit of Measure	GWP Factor for CO2	GWP Factor for CH4	GWP Factor for N2O	Unit of Measure	Total Quantity Emitted by Type	Unit of Measure	Total Quantity Emitted	Unit of Measure
	CO2	CH4	N2O								by Type	
kg N2O/lbs CO2	0.0	0.0	0.0	kg	1	25	298	CO2e	0.0	kg CO2e	0.0	MT CO2e

Emission Factor N2O	Unit of Measure	Total Quantity Emitted	Total Quantity Emitted	Total Quantity Emitted	Unit of Measure	GWP Factor for CO2	GWP Factor for CH4	GWP Factor for N2O	Unit of Measure	Total Quantity Emitted by Type	Unit of Measure	Total Quantity Emitted	Unit of Measure
		CO2	CH4	N2O								by Type	
0.000009	kg N2O/Passenger	17,365.2	0.6	0.5	kg	1	25	298	CO2e	17,543.2	kg CO2e	17.5	MT CO2e
0.000005	kg N2O/Passenger	27,411.9	0.1	0.9	kg	1	25	298	CO2e	27,677.4	kg CO2e	27.7	MT CO2e
0.000006	kg N2O/Passenger	2,051,194.3	8.6	64.4	kg	1	25	298	CO2e	2,070,610.8	kg CO2e	2,070.6	MT CO2e
0.000006	kg N2O/Passenger	0.0	0.0	0.0	kg	1	25	298	CO2e	0.0	kg CO2e	0.0	MT CO2e

Reducing Poverty Through Growth



MILLENNIUM

CHALLENGE CORPORATION

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