

Department of Energy and Environment FY2020

Agency Department of Energy and Environment

Agency Code KGO

Fiscal Year 2020

Mission The mission of the Department of Energy and Environment (DOEE) is to improve the quality of life for the residents and natural inhabitants of the nation's capital by protecting and restoring the environment, conserving our natural resources, mitigating pollution, increasing access to clean and renewable energy, and educating the public on ways to secure a sustainable future.

Strategic Objectives

Objective Number	Strategic Objective
1	Conserve the natural environment and wildlife of the District, and restore and protect aquatic resources from pollution and degradation
2	Protect the public health of all District residents by improving the environment in areas related to air, soil, and indoor pollution
3	Reduce the energy burden on the District's most vulnerable and low income populations, reduce overall energy consumption, and increase the use of renewable energy generated in the District, and enhance reliability, resiliency and environmental performance of energy systems in the District.
4	Increase engagement with District residents and businesses in an equitable way to increase understanding and adoption of sustainability practices, and implement programs and policies that ensure the District remains a national and international leader in sustainability and climate change.
5	Administer efficient and effective environmental enforcement operations, strategies, and outreach that bring polluters into compliance with the District's environmental laws
6	Create and maintain a highly efficient, transparent, and responsive District government.

Key Performance Indicators

Measure	Directionality	FY 2017 Actual	FY 2018 Actual	FY 2019 Actual	FY 2020 Target
1 - Conserve the natural environment and wildlife of the District, and restore and protect aquatic resources from pollution and degradation (3 Measures)					
Square footage of green roofs installed	Up is Better	363,800	516,348	616,566	300,000
Number of trees planted by DOEE to help the District meet its goal of 40 percent tree canopy coverage by 2032	Up is Better	3389	3052	3238	2750
Percent of District land retrofitted with green infrastructure that prevents stormwater runoff from becoming pollution	Up is Better	2.7%	3.6%	4.1%	3.8%
2 - Protect the public health of all District residents by improving the environment in areas related to air, soil, and indoor pollution (5 Measures)					
Compliance rate of underground storage tanks inspected	Up is Better	89.5%	92%	86.1%	85%
Percent of children with a newly identified blood lead level of 5 µg/dL or greater, out of all District children less than six years old, who had a blood lead test during the fiscal year	Down is Better	0.7%	0.6%	0.4%	1%
Compliance rate of selected, permitted minor sources, e.g., gas stations and drycleaners	Up is Better	87%	79%	84.8%	80%
Percent of properties with identified lead-based paint hazards that are issued an Enforcement Order or a Notice within 28 days of the property's risk assessment	Up is Better	100%	93.3%	88.6%	90%
Percent of National Emission Standards for Hazardous Air Pollutants (NESHAP) permits that receive an asbestos inspection	Up is Better	New in 2020	New in 2020	New in 2020	25%

Measure	Directionality	FY 2017 Actual	FY 2018 Actual	FY 2019 Actual	FY 2020 Target
3 - Reduce the energy burden on the District's most vulnerable and low income populations, reduce overall energy consumption, and increase the use of renewable energy generated in the District, and enhance reliability, resiliency and environmental performance of energy systems in the District. (2 Measures)					
Number of low-income households receiving solar installations	Up is Better	20	364	8526	2000
Compliance rate of energy benchmarking	Up is Better	75.5%	91.2%	95.9%	90%
4 - Increase engagement with District residents and businesses in an equitable way to increase understanding and adoption of sustainability practices, and implement programs and policies that ensure the District remains a national and international leader in sustainability and climate change. (2 Measures)					
Percent of greenhouse gas emissions reduction from the 2006 baseline year to meet 2050 goal	Up is Better	23.8%	29%	30%	32%
Percent of actions in the Sustainable DC Plan complete	Up is Better	25.2%	27.3%	32.9%	33%
5 - Administer efficient and effective environmental enforcement operations, strategies, and outreach that bring polluters into compliance with the District's environmental laws (2 Measures)					
Rate of Compliance with District Environmental Law Detected through Inspections	Up is Better	New in 2018	76.5%	79.5%	75%
Air monitoring network performance- Percent of data captured for submitting to EPA's national air quality database	Up is Better	New in 2020	New in 2020	New in 2020	75%

Core Business Measures

Measure	Directionality	FY 2017 Actual	FY 2018 Actual	FY 2019 Actual
6 - Create and maintain a highly efficient, transparent, and responsive District government. (10 Measures)				
Contracts and Procurement - Percent of Small Business Enterprise (SBE) annual goal spent	Up is Better	New in 2019	New in 2019	Waiting on Data
Financial Management - Percent of local budget de-obligated to the general fund at the end of year	Down is Better	New in 2019	New in 2019	Waiting on Data
Human Resource Management - Average number of days to fill vacancy from post to offer acceptance	Down is Better	New in 2019	New in 2019	Waiting on Data
IT Policy and Freedom of Information Act (FOIA) Compliance - Percent of FOIA Requests Processed in more than 25 business days - statute requirements allow 15 business days and a 10 day extension	Down is Better	New in 2019	New in 2019	Waiting on Data
Human Resource Management - Percent of eligible employee performance evaluations completed and finalized in PeopleSoft	Up is Better	New in 2019	New in 2019	Waiting on Data
Human Resource Management - Percent of new hires that are DC residents (excludes temporary workers and contractors) (Updated by OCA)	Up is Better	New in 2020	New in 2020	New in 2020
Human Resource Management - Percent of employees that are DC residents (excludes temporary workers and contractors) (Updated by OCA)	Up is Better	New in 2020	New in 2020	New in 2020
Financial Management - Quick Payment Act (QPA) Compliance - Percent of QPA eligible invoices paid within 30 days	Up is Better	New in 2019	New in 2019	97.8%
Human Resource Management - Percent of eligible employees completing and finalizing a performance plan in PeopleSoft	Up is Better	New in 2019	New in 2019	99.1%

Measure	Directionality	FY 2017 Actual	FY 2018 Actual	FY 2019 Actual
IT Policy and Freedom of Information Act (FOIA) Compliance - Percent of "open" data sets identified by the annual Enterprise Dataset Inventory published on the Open Data Portal	Up is Better	New in 2019	New in 2019	86.8%

*Mayoral agencies include agencies under the Health and Human Services, Education, Public Safety and Justice, Operations and Infrastructure, Economic Development, and Internal Services clusters. It excludes all independent agencies and select EOM agencies. The HR management, Financial Management, IT Policy and FOIA Compliance, and Contracts and Procurement measures were collected for all mayoral agencies in FY 2019. OCA calculates these measure based on summary-level data from various agencies, and cannot verify the accuracy of any calculations that were made to the source data prior to its receipt by OCA. The 2019 DC Enterprise Data Inventory (EDI), which contains data on "open" data sets published on DC's Open Data Portal, is current as of March 9, 2019. Due to data lags, FY 2019 data for the following core business measures will be published in March 2020: Contracts and Procurement - Percent of Small Business Enterprise (SBE) annual goal spent; Financial Management - Percent of local budget de-obligated to the general fund at the end of year; Human Resource Management - Average number of days to fill vacancy from post to offer acceptance; Human Resource Management - Percent of eligible employee performance evaluations completed and finalized in PeopleSoft; and IT Policy and Freedom of Information Act (FOIA) Compliance - Percent of FOIA Requests Processed in more than 25 business days - statute requirements allow 15 business days and a 10 day extension.

Operations

Operations Header	Operations Title	Operations Description	Type of Operations
1 - Conserve the natural environment and wildlife of the District, and restore and protect aquatic resources from pollution and degradation (1 Activity)			
Natural Resources Services	Natural resources services performed by agency	The DOEE Natural Resources Administration oversees fisheries and wildlife, water quality, watershed protection, and stormwater management in the District. It provides certification, review, and technical services to businesses, Federal and District government agencies, and District residents through licensing, inspections, monitoring, permitting, and technical assistance. It also provides natural resources education and outreach and demonstrates new technologies to protect natural resources.	Daily Service
2 - Protect the public health of all District residents by improving the environment in areas related to air, soil, and indoor pollution (1 Activity)			
Environmental Services	Environmental health services performed by agency	The DOEE Environmental Services Administration works to reduce hazards and contaminants in District land, air, water, and homes by certifying facilities and professional service providers, reviewing plans, issuing permits, conducting inspections, and recommending new policy directions. Specific programs include lead poisoning prevention, healthy homes, air quality, pesticides, hazardous waste, underground storage tanks, and contaminated site remediation.	Daily Service
3 - Reduce the energy burden on the District's most vulnerable and low income populations, reduce overall energy consumption, and increase the use of renewable energy generated in the District, and enhance reliability, resiliency and environmental performance of energy systems in the District. (1 Activity)			
Energy services	Energy services provided by agency	The DOEE Energy Administration provides advice and recommendations to the Mayor on current or impending energy related problems, and serves as the lead entity to develop and implement a comprehensive long-range District energy plan to achieve maximum effective management and use of present and future sources of energy. It administers energy efficiency and renewable energy programs that help District residents use less energy and generate on-site clean energy, and provides direct financial assistance and discounts to low-income residents to help off-set their energy bills.	Daily Service
4 - Increase engagement with District residents and businesses in an equitable way to increase understanding and adoption of sustainability practices, and implement programs and policies that ensure the District remains a national and international leader in sustainability and climate change. (1 Activity)			

Operations Header	Operations Title	Operations Description	Type of Operations
Sustainability	Sustainability and engagement activities performed by the agency	The DOEE Urban Sustainability Administration develops innovative policy and programming to address environmental challenges and increase sustainability in the District. It coordinates programs and communications with sister agencies, the Mayor's office, and non-government stakeholders to promote widespread adoption of sustainable practices through implementation of the District's Sustainable DC Plan, waste reduction initiatives, green building policy and programs, greenhouse gas emission reductions, and climate change resiliency planning.	Daily Service
5 - Administer efficient and effective environmental enforcement operations, strategies, and outreach that bring polluters into compliance with the District's environmental laws (1 Activity)			
Enforcement	Enforcement services performed by the agency	The DOEE Office of Enforcement and Environmental Justice develops and implements effective practices to support DOEE enforcement efforts. The office works directly with DOEE's environmental enforcement programs by coordinating planning, providing training, developing standard procedures, and managing the civil infractions program. The office serves as the lead agency contact for enforcement matters involving U.S. Environmental Protection Agency (EPA) Region 3.	Daily Service
6 - Create and maintain a highly efficient, transparent, and responsive District government. (1 Activity)			
Operation Services	Operation services performed by the agency	Agency Support	Daily Service

Workload Measures

Measure	FY 2017 Actual	FY 2018 Actual	FY 2019 Actual
1 - Natural resources services performed by agency (9 Measures)			
Number of RiverSmart Homes audits performed	930	1037	1207
Number of rain gardens installed by RiverSmart Homes	122	151	89
Number of stormwater management and erosion/sediment control inspections	4040	5089	6044
Number of Bag Law inspections	555	552	553
Number of MS4 outfalls inspected	229	255	377
Number of MS4 facilities inspected	106	90	113
Number of Aquatic Resources Education Center visitors	5592	5851	6647
Number of Food Service Ware inspections	309	293	310
Number of Stormwater best management practices (BMPs) inspections	New in 2019	New in 2019	927
2 - Environmental health services performed by agency (7 Measures)			
Number of contaminated site clean-ups under regulatory oversight in the District	22	23	27
Number of open leaking UST remediation sites under regulatory oversight	148	149	145
Number of full-compliance evaluations of Title V facilities	19	20	20
Number of Significant Operational Compliance inspections of underground storage tanks conducted	86	52	84
Number of hazardous waste inspections conducted	240	105	91
Number of pesticide inspections conducted	79	77	76

Measure	FY 2017 Actual	FY 2018 Actual	FY 2019 Actual
Number of National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos permits processed	New in 2019	New in 2019	488
3 - Energy services provided by agency (4 Measures)			
Number of low-income households receiving energy efficiency measures and services	624	502	360
Number of low-income households receiving energy assistance	20,696	20,270	20,236
Number of low-income households receiving CRIAC Relief	New in 2020	New in 2020	New in 2020
Number of residents receiving assistance under the Lead Pipe Replacement Assistance Program	New in 2020	New in 2020	New in 2020
4 - Sustainability and engagement activities performed by the agency (3 Measures)			
Number of businesses and institutions participating in sustainability pledges or challenges	130	130	282
Number of social media posts and electronic communications containing environmental and sustainability engagement messaging	2029	1934	2900
Number of school visits, community meetings, and events where environmental and sustainability programs, activities, and initiatives are promoted	210	158	128
5 - Enforcement services performed by the agency (2 Measures)			
Amount collected from fines and penalties	\$196,416	\$253,889.4	\$390,892.3
Number of Notices of Infraction processed	343	270	481

Strategic Initiatives

Strategic Initiative Title	Strategic Initiative Description	Proposed Completion Date
Energy services provided by agency (4 Strategic initiatives)		
Develop the District's Transportation Electrification Strategy	In FY20, Department of Energy & Environment (DOEE) will support the Mayor's Office (EOM) by leading the development of the Mayor's Transportation Electrification (TE) Program by March 30, 2020. DOEE will create a plan for public fleets to transition to zero emission vehicles. DOEE will also work with the Department of Public Works (DPW) and Pepco to establish a framework to build out Electric Vehicle (EV) charging infrastructure in the District.	09-30-2020
Initiate Implementation of the Building Energy Performance Standards	In FY20, DOEE will begin the process of implementing the Building Energy Performance Standards (BEPS) by convening and soliciting feedback from the Mayor's BEPS Task Force, finalizing the rulemaking process for Title III of the Act, and hiring staff to support the program. DOEE will also develop and implement a public outreach and engagement plan to inform building owners of the changes to the benchmarking requirements, specifically those centered on data verification and the lowering of the size threshold for benchmarking.	09-30-2020
Transfer the authority of the Gas Station Advisory Board to DOEE	In FY20, DOEE will reestablish the responsibilities of the former Gas Station Advisory Board (GSAB) within DOEE, pursuant to the Gas Station Advisory Board Abolishment Amendment Act of 2018. DOEE will review the existing regulations in the District of Columbia Municipal Regulations (DCMR) for this program, and revise as needed. DOEE will hire a Program Analyst to establish Standard Operating Procedures (SOP), and develop processes to receive and review applications from gas station owners seeking to convert, redevelop or structurally alter a full-service station. DOEE will leverage this new role to identify opportunities to utilize gas stations as potential resiliency centers and/or EV charging stations.	09-30-2020

Strategic Initiative Title	Strategic Initiative Description	Proposed Completion Date
Establish and administer a Lead Water Service Line Replacement Payment Assistance Program	In FY20, DOEE will work with DC Water to establish a Lead Pipe Replacement Assistance Program (LPRAP), to provide financial assistance to income eligible residents who choose to replace the portion of a lead water service line located on their private property, if the portion of the water service line on public property is not a lead water service line. DOEE will administer the (LPRAP) pursuant to the Lead Water Service Line Replacement and Disclosure Amendment Act of 2019. DOEE will hire a Program Manager, execute an MOU with DC Water, and promulgate regulations.	09-30-2020
Environmental health services performed by agency (4 Strategic initiatives)		
To develop a mold inspection program	In FY20, DOEE will develop a mold inspection program with the Lead Safe and Healthy Housing Division. The program will assist District residents to ensure work done by mold contractors meet the regulations in the District. Also the mold inspectors will work with individual residents, and landlords, to assist them in addressing mold concerns. Mold inspections will be complaint driven. All mold complaints received by DOEE will be investigated. The program will work closely with the Office of Tenant Advocacy to improve communications to landlords, tenants, and resident making them aware of the mold regulations and penalties associated with non-compliance. The program will be funded in FY20 for two inspectors, who will work under an existing supervisor. The program will develop Standard Operating Procedures, and purchase the necessary equipment for the program to best benefit the residents.	09-30-2020
Enhancing the District's Asbestos Permitting Program	DOEE will work with DCRA to use the ACCELA program to ensure all the projects in need of asbestos permits are received. This will also allow DOEE to inspect more of the asbestos removal projects. DOEE will also work with DCRA to increase oversight of the licensing of asbestos removal done by companies and workers, thus increasing the quality of removal work performed.	09-30-2020
Implement new standards for odor intensity	The District has had an odor control regulation and enforcement program for several decades. In FY2020, DOEE will further strengthen the program with revised regulations and new implementation and enforcement practices. This includes implementing new standards for odor intensity using an Olfactometer, an instrument used to detect and measure odor dilution (nasal ranger), having an Activity Based Required Odor Control Plan, and Complaint Response Process.	09-30-2020
Development of a fee structure to fund the Rail Safety Program	In FY20, DOEE will gather data that will aid in the development of a fee structure to fund the Rail Safety Program. DOEE will also work closely with DOEE's Office of the General Counsel to review existing laws and regulations to ensure that they are aligned with the new fee structure, and analyze other state Rail Safety Program for best practices during the development of the fee structure.	09-30-2020
Natural resources services performed by agency (5 Strategic initiatives)		
Integrated Flood Model	This multiyear project will produce an integrated flood model that will enable the District to consolidate its modeling of all three types of flooding and allow District agencies to have a tool to more effectively plan to mitigate, respond, and recover from floods. By the end of FY 2022, DOEE will be able to identify and list areas throughout the District that will be likely inundated with floodwater permanently, periodically, or during large storm events by the 2020s, 2050s, and 2080s. This includes areas inundated by cloudbursts. This list of flood risk areas would be displayed in a map with supporting data, including flood depths, and shared with other agencies for future urban planning, emergency response planning, and infrastructure improvements. By the end of FY20, DOEE anticipates having a contract awarded and work underway on developing the model.	09-30-2021
Anacostia River Mussel Restoration	In FY20, DOEE will invest \$400,000 to support the restoration of the Anacostia River by reintroducing at least 35,000 native freshwater mussels to the river and studying their ability to clean the water by removing pollutants from waterways. The mussels will improve water quality, leading to better conditions for underwater grasses and fish. In addition, this effort will educate at least 400 young DC residents on the ecological and water quality benefits of mussels, how this project supports the District's efforts to restore the Anacostia River, and provide ways for residents to meaningfully engage with DC's natural environment, beginning at an early age. This initiative is important because it protectd and beatify our waterways, while also educating residents on how these efforts improve the quality of life in our city.	09-30-2020

Strategic Initiative Title	Strategic Initiative Description	Proposed Completion Date
Implement Stormwater Pollution Prevention Program Plan for District Operations	In FY20, DOEE will continue to work with sister agencies to implement Stormwater Pollution Prevention Program Plan (SWPPP) for District Operations to fulfill a Consent Order with EPA for the District's municipal separate storm sewer system (MS4) program. DOEE will implement the following parts of the Plan: Update the inventory of District owned or operated facilities that are critical sources of stormwater pollution; work with facilities to develop stormwater pollution prevention plans (SWPPPs) not completed in FY19; conduct annual SWPPP reviews and recommend updates; hold workshop on SWPPP development, review and implementation; work with DGS to complete development and launch database to track pollution prevention (P2) efforts and work orders; provide stormwater P2 trainings for at least 20 facilities; share pollution control locations and maintenance needs to District facilities; and provide compliance assistance when requested.	09-30-2020
Mapping Piped and Above-ground Streams and Springs in the District	In FY20, DOEE will conduct a study to locate and map District streams that convey water and have been covered or piped. The study will assess if it would be environmentally beneficial and feasible to daylight these streams, as well as outfalls, and prioritize the sites. This will aid existing and potential landowners by providing them information on if a property may be prone to flooding. It will also aid DOEE in prioritizing sites for stream restoration.	09-30-2020
Oxon Run Stream and Anacostia Wetland Restoration	DOEE will issue a contract solicitation for an environmental assessment in FY20, signaling the District's intent to restore Oxon Run, which has the potential to be one of the largest stream restoration projects in the nation. In addition, DOEE will issue a contract solicitation for an Anacostia wetland restoration prioritization list and feasibility study in FY20 in support of a comprehensive approach to watershed restoration. These efforts will aid the District in meeting its Sustainable DC goals (for wetland creation and stream restoration), Resilient DC goals (for resilient rivers), and equity goals.	09-30-2020
Sustainability and engagement activities performed by the agency (6 Strategic initiatives)		
Develop strategy to meet Mayor Bowser's pledge to be carbon neutral by 2050	In FY20, DOEE will finalize a strategy for achieving carbon neutrality building on the Clean Energy DC and Sustainable DC plans, to meet the Mayor's pledges to be carbon neutral by 2050 and adopt a Paris Accord-compliant carbon reduction plan. The strategy will recommend high-impact policies to cut emissions through high-performance buildings, smart waste infrastructure, and transportation solutions like congestion relief. Building on the technical analysis in FY19, FY20's focus will be around public engagement to revise and finalize the strategy. DOEE will lead the District's participation in the C40 Climate Leadership Group, Global Covenant of Mayors for Climate & Energy, Carbon Neutral Cities Alliance, and Climate Mayors networks. DOEE will also release an annual greenhouse gas inventory showing progress since 2006, publicly report its actions to reduce carbon and adapt to a changing climate, and participate in projects and peer-learning opportunities to advance climate solutions.	09-30-2020
Continue to build a Climate Ready DC through initiatives to cool the city and advance resilient design	In FY20, DOEE will continue to implement Climate Ready DC through coordination with District agencies, outside consultants, and community partners. Specific initiatives will include the development of a heat sensitivity map and comprehensive heat strategy to cool the city and prepare for extreme heat, testing and refining the resilient design guidelines, outlining a strategy for a resilience hub pilot, and exploring the creation of a FloodSmart homes program. DOEE will also continue to support sustained community engagement to guide implementation, especially in the priority neighborhoods identified in Climate Ready DC. In addition, DOEE will continue to work with other agencies to incorporate climate resilience into relevant plans including the Comprehensive Plan.	09-30-2020
Lead the way on climate action through green, high-performance building	Buildings account for 75% of DC's greenhouse gas emissions. In FY20, DOEE will accelerate efforts to cut energy use in buildings and expand distributed renewable energy by supporting efforts to strengthen building energy codes and helping the building sector adopt them through education and outreach; providing technical assistance to sister agencies, especially those who fund and regulate affordable housing; and supporting developers to use innovative strategies and technologies in their projects through grants and technical assistance. A focal point of these efforts will be the launch of a new High Performance Building Hub to provide catalytic support to the building sector to accelerate the adoption of green building practices and novel business and financing models, and support compliance with the new building energy performance standards and building codes.	09-30-2020
Launch collaborative interagency Sustainable DC 2.0 working groups to jump start plan implementation	In FY 20, DOEE will launch six to eight working groups of District Government agencies organized around clusters of similar actions in Sustainable DC 2.0. This will include at least one work group to help District Government lead the way on climate action and sustainability, such as energy consumption reduction, water efficiency, sustainable purchasing, and waste management. The working groups will launch in early FY2020 and develop collaborative recommendations for moving Plan actions forward by spring/summer 2020.	07-30-2020

Strategic Initiative Title	Strategic Initiative Description	Proposed Completion Date
Support the development of a circular economy	In FY 2020, DOEE will support the growth of a local circular economy by working with OCP to align procurement policies with our waste reduction goals and identifying current waste streams with high commodification value. Examples include a textile recycling partnership with local second market clothing stores, holding fix-it clinics to repair objects, and expanding product stewardship categories. DOEE will build on existing initiatives in all of these sectors.	09-30-2020
Pilot new sustainability-related engagement and educational strategies for residents and businesses	In FY20, DOEE will develop and pilot new strategies for creatively engaging both residents and businesses on sustainability. This will include testing the use of an Equity Assessment Tool (Sustainable DC action EQ 1.2) to identify opportunities for better engaging residents and business owners who have not historically been engaged in sustainability programming. For residents, this will focus on Wards 7 and 8. For businesses, this will include improving the business case for sustainability and climate action and improving educational opportunities in sectors that DOEE hasn't successfully developed relationships in the past.	09-30-2020