Department of Energy and Environment FY2021

Agency Department of Energy and Environment

Agency Code KG0

Fiscal Year 2021

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 2018 Actual	FY 2019 Actual	FY 2020 Actual	FY 2021 Target
1 - Conserve the natural environment and wildlife of the District, and restore and protect aquatic res	ources from pollutio	on and deg	radation (3	Measures)	
Number of trees planted by DOEE to help the District meet its goal of 40 percent tree canopy coverage by 2032	Up is Better	3052	3238	2390	2750
Percent of District land retrofitted with green infrastructure that prevents stormwater runoff from becoming pollution	Up is Better	3.6%	4.1%	4.6%	3.8%
Square footage of green roofs installed	Up is Better	516,348	616,566	649,641	300,000
2 - Protect the public health of all District residents by improving the environment in areas related to	air, soil, and indoo	r pollution	(5 Measure	s)	
Compliance rate of underground storage tanks inspected	Up is Better	92%	86.1%	93.9%	85%
Compliance rate of selected, permitted minor sources, e.g., gas stations and drycleaners	Up is Better	79%	84.8%	41.9%	80%
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	33.3%	25%
Percent of children with a newly identified blood lead level of $5\mu g/dL$ 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	0.6%	0.4%	0.5%	1%
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	93.3%	88.6%	84.8%	90%
3 - Reduce the energy burden on the District's most vulnerable and low income populations, reduce renewable energy generated in the District, and enhance reliability, resiliency and environmental po					
Number of low-income households receiving solar installations	Up is Better	364	8526	2732	2000
Compliance rate of energy benchmarking	Up is Better	91.2%	95.9%	96%	90%
4 - Increase engagement with District residents and businesses in an equitable way to increase unde implement programs and policies that ensure the District remains a national and international leader					nd
Percent of greenhouse gas emissions reduction from the 2006 baseline year to meet 2050 goal	Up is Better	29%	30%	27%	32%
Percent of actions in the Sustainable DC Plan complete	Up is Better	27.3%	32.9%	25.3%	33%
5 - Administer efficient and effective environmental enforcement operations, strategies, and outread environmental laws (2 Measures)	ch that bring pollut	ers into con	npliance wi	th the Distr	ict's
Rate of Compliance with District Environmental Law Detected through Inspections	Up is Better	76.5%	79.5%	89.8%	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	93.5%	75%

Operations

Operations	Operations	Operations Description	Type of
Header	Title		Operations
1 - Conserve 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.	y) Daily Service

Operations Header	Operations Title	Operations Description	Type of Operations	
2 - Protect the	e public health o	fall 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	rvices homes by certifying facilities and professional service providers, reviewing plans, issuing permits, conducting inspections,		
3 - Reduce th renewable er	e energy burden nergy generated	on the District's most vulnerable and low income populations, reduce overall energy consumption, and increase the u in the District, and enhance reliability, resiliency and environmental performance of energy systems in the District.(1)	se of 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	
		District residents and businesses in an equitable way to increase understanding and adoption of sustainability practic licies that ensure the District remains a national and international leader in sustainability and climate change. (1 Activit		
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	
	r efficient and ef al laws (1 Activit	rective environmental enforcement operations, strategies, and outreach that bring polluters into compliance with the y)	District's	
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	d maintain a high	nly efficient, transparent, and responsive District government. (1 Activity)		
Operation Services	Operation services performed by the agency	Agency Support	Daily Service	

Workload Measures

Measure	FY 2018 Actual	FY 2019 Actual	FY 2020 Actual
1 - Natural resources services performed by agency (11 Measures)			
Number of RiverSmart Homes audits performed	1037	1207	847
Number of rain gardens installed by RiverSmart Homes	151	89	82
Number of stormwater management and erosion/sediment control inspections	5089	6044	7083
Number of Bag Law inspections	552	553	215
Number of MS4 outfalls inspected	255	377	120
Number of MS4 facilities inspected	90	113	26
Number of Aquatic Resources Education Center visitors	5851	6647	1206
Number of Food Service Ware inspections	293	310	153
Number of Stormwater best management practices (BMPs) inspections	New in 2019	927	552
Number of Stormwater Retention Credits sold since program inception	New in 2021	New in 2021	New in 2021
Number of Construction Stormwater Inspections	New in 2021	New in 2021	New in 2021
2 - Environmental health services performed by agency (7 Measures)			
Number of contaminated site clean-ups under regulatory oversight in the District	23	27	104
Number of open leaking UST remediation sites under regulatory oversight	149	145	138
Number of full-compliance evaluations of Title V facilities	20	20	5
Number of Significant Operational Compliance inspections of underground storage tanks conducted	52	84	72
Number of hazardous waste inspections conducted	105	91	48
Number of pesticide inspections conducted	77	76	56
Number of National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos permits processed	New in 2019	488	467
3 - Energy services provided by agency (4 Measures)			
Number of low-income households receiving energy assistance	20,270	20,236	15,779
Number of low-income households receiving CRIAC Relief	New in 2020	New in 2020	4706
Number of residents receiving assistance under the Lead Pipe Replacement Assistance Program	New in 2020	New in 2020	131
Number of low-income households receiving energy efficiency measures and services	502	360	402

Measure	FY 2018 Actual	FY 2019 Actual	FY 2020 Actual
4 - Sustainability and engagement activities performed by the agency (3 Measures)			
Number of businesses and institutions participating in sustainability pledges or challenges	130	826	330
Number of social media posts and electronic communications containing environmental and sustainability engagement messaging	1934	2900	2340
Number of school visits, community meetings, and events where environmental and sustainability programs, activities, and initiatives are promoted	158	128	50
5 - Enforcement services performed by the agency (2 Measures)			
Amount collected from fines and penalties	\$253,889.4	\$390,892.3	\$229,082
Number of Notices of Infraction processed	270	481	312

Strategic Initiatives

Strategic Initiative Title	Strategic Initiative Description	Proposed Completion Date	
Energy service	es provided by agency (5 Strategic initiatives)		
Conduct Competitive Capacity Market Withdrawal Study	withdrawal Study", through a grant, to evaluate and make recommendations regarding the District's continued participation or withdrawal from the regional transmission organization (PJM) capacity market. The study will evaluate the effects of the Federal Energy Regulatory Commission (FERC) decision that requires PJM to alter its bid pricing rules for its forward capacity market auctions to account for what FERC rawal or unconsiders to be "out-of-market payments" or "state-subsidized" resources; the study then will describe the pros and cons of (1) continuing to		
mplement new DC Municipal Aggregation Program DCMAP) Contract	In FY21, DOEE will implement the revamped District of Columbia Municipal Aggregation Program (DCMAP) by working with a contractor to: 1) advise the District on energy market conditions; 2) serve as an energy broker to secure the best value for energy supply; 3) conduct customer recruitment and enrollment on a no upfront cost basis; 4) aggregate energy among small businesses through an opt-in process; and 5) design and implement a marketing campaign to promote awareness and increase participation in the program.	09-30-2021	
Develop and Deploy a Market-Rate Solar Energy Adoption Campaign	In FY21, DOEE will create a program focused on supporting District residents in better understanding the benefits of solar energy and the opportunities adoption of solar energy presents. We will then deploy a campaign to provide residents with educational materials through the web, partnerships with other district agencies (e.g. PSC, OPC), engage k-12 students through Energy Education initiatives, and set up an e-mail hotline for answering questions on solar adoption. The initiative plans to: 1) Develop program elements; 2) Deploy marketing campaign for financial guide; 3) Revamp Solar Initiative Website to include updated information and resources; and 4) Perform extensive outreach via other agencies, ANC's, MOCR's, and schools to educate district citizens on their solar adoption options. DOEE will track the number of private solar permits (particularly on systems of 7kW or less), interconnection requests, website visits, outreach events, and education events.	09-30-2021	
One Less Fossil- Fuel Peaking Plant	In FY21, DOEE will establish a new database, by collecting and synthesizing the necessary data from the regional transmission organization (PJM), EPA (Air Markets Program Data), and DOEE's benchmarking and electrification roadmap data (expected to be finished by early 2021), which will help DOEE to develop a peak demand reduction pilot program. This initiative is aimed at reducing the grid's greenhouse gas emissions caused by DC consumption, and therefore it is different from utility's Demand Response program that is primarily driven by the price of peak supply. The synthesized database can be updated annually to reflect the changing conditions of grid supply.	09-30-2021	
mplementation of a Coordinated Weatherization Assistance Program and Lead Hazard Control Program	In FY21, DOEE will implement a coordinate energy efficiency program that will allow DOEE to provide seamless energy efficiency and lead hazard controls and provide best-in-class service to low-income District residents. It will integrate funding from three federal sources: the Low-Income Home Energy Assistance Program (HHS), the Weatherization Assistance Program (DOE), and the Lead Hazard Control Program (HUD). For the first time, DOEE received notice of a grant award from HUD in March 2020 and has been working to prepare for the implementation of a coordinated energy efficiency, health and safety and lead hazard control initiative.	09-30-2021	
Environmenta	I health services performed by agency (2 Strategic initiatives)		
mplement a New Automated .ead File Conversion Solution	To accelerate the availability of childhood lead surveillance data for medical and case management response, DOEE will identify contractors to develop and establish an Automated Lead File Conversion Solution. The solution will automatically detect, convert, and process incoming laboratory data into DOEE's Healthy Homes and Lead Poisoning Surveillance System and interface the data with the new DC Lead Registry. Anticipated benefits include fewer data errors, real-time detection of new lead cases received outside normal business hours, and seamless onboarding of new laboratory and point-of-care testing sites.	09-30-2021	
mplement a Green Greenediation UST (leaking Inderground torage tank) Program in the District	In FY2021, DOEE will work with stakeholders to develop and implement a Green Remediation Program in the District. DOEE will develop green remediation guidance, provide incentives to developers and consultants to use green cleanups, and track the number of green cleanups in the LUST database.	09-30-2021	
Natural resour	ces services performed by agency (5 Strategic initiatives)		
Oxon Run itream and nnacostia Vetland lestoration	For Anacostia wetlands, DOEE will issue a contract solicitation for the designs of wetland restoration in Kingman Lake in FY21. This effort is being undertaken so that restoration work can coincide with the remediation of toxic sediments in the lake. Additionally DOEE will complete the solicitation for an Anacostia restoration plan and project prioritization. These two 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. For Oxon Run, DOEE will complete conceptual designs and will complete the preliminary work towards an Environmental Assessment. This is the initial step in the District's effort to restore Oxon Run, which has the potential to be one of the largest stream restoration projects in the nation.	09-30-2021	
Coal Tar Pavement Sealant Ban Jpdates and Outreach Campaign	In FY21, DOEE will conduct an outreach campaign informing the regulated community of amendments made to the Coal Tar Pavement Sealant Ban in FY19. Council expanded the ban to include additional pavement sealant products high in PAHs that pose a risk to human health and aquatic wildlife. The campaign will take the form of phone calls, emails, and mailers to notify the regulated community of the new requirements. Enforcement will begin the summer of FY21.	09-30-2021	

Strategic Initiative Title	Strategic Initiative Description	Proposed Completion Date
Tribal Amity License Program	In FY21, Fisheries and Wildlife Division staff will work with members of the Piscataway Indian Nation and the Piscataway Conoy Tribe to develop a commemorative, lifetime licensing and education program.	09-30-2021
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 FY21, DOEE anticipates having a contract awarded, the model software and hardware architecture selected, and future storm and rainfall scenarios selected.	09-30-2025
Construct a floating dock for public use at Kingman Island	In FY21, Department of Energy & Environment (DOEE) will construct a boat dock and composting toilet on Kingman Island to provide a free public access point for recreational boating to District residents, particularly those who live within walking distance in the surrounding Ward 7 and Ward 6. This initiative will help increase public access to the upper Anacostia River. The location will serve as a supporting resource for fulfilling some of the educational goals of the DC Environmental Literacy Plan and the Sustainable DC Plan.	09-30-2021
Sustainability	and engagement activities performed by the agency (6 Strategic initiatives)	
Accelerate the adoption of Net Zero Energy Buildings	In FY21, DOEE will accelerate the adoption of net zero energy (NZE) buildings. First, DOEE will lead the development of the next Energy Conservation and Green Construction Codes as chair of the technical advisory group. The majority of the planning and code development will take place in FY21 with full adoption planned for 2023. In addition, DOEE will provide technical assistance, grants and develop new incentives to encourage projects to pursue NZE ahead of a statutory requirement in the 2026 Energy Code as called for by the Clean Energy DC plan. DOEE will also launch the Building Innovation Hub as a central resource to support the transition to high performance buildings and compliance with the new building energy performance standards. DOEE will focus in particular on supporting the affordable housing community by ensuring the BEPS program is designed with their unique challenges in mind and by providing training and resources in partnership with the District's housing agencies.	09-30-2021
Launch the District's strategy to achieve an equitable and net-zero carbon city by 2050	In FY21, DOEE will launch a strategy for achieving carbon neutrality to meet the Mayor's pledge to be carbon neutral by 2050 and adopt a Paris Accord-compliant carbon reduction plan. The strategy will focus on the nexus between community priorities – health, opportunity, affordability, equity — and high-impact emissions reduction policies such as high-performance buildings and reducing congestion. FY21's focus will be on public engagement: to capture key community priorities, to identify barriers to meeting our equity and carbon goals, and to develop evaluation criteria for future climate policy development ensuring accountability. By engaging residents on achieving and measuring an equitable transition, and with technical stakeholders on policy ideas, the final strategy will be a community-centered climate action plan that will align with and support SDC 2.0, the Mayor's affordable housing goals, and the concurrent moveDC update.	09-30-2021
Build resilience to extreme heat and flooding	In FY21, DOEE will focus on increasing community resilience to the climate impacts of extreme heat and flooding. Current response practices for both of these impacts have been strained by COVID-19, and we will incorporate lessons from this time into future work. DOEE will develop a comprehensive heat strategy and support resilience initiatives that will help keep people safe including resilience hubs and updates to floodplain regulations. To do this, DOEE will work closely with District residents, especially those in priority neighborhoods identified in Climate Ready DC, and with other District government agencies who can help coordinate on these goals.	09-30-2021
Adapt sustainability programs to be appropriate and relevant during COVID- 19	In FY 2021, DOEE will develop a strategy to help staff ensure community events and resources are responsive to community needs during and immediately COVID-19. With people spending the vast majority of their time in their own homes and facing new economic pressures, the sustainability challenges are different than prior years for our residents and businesses. By December 2020, based on best practices from around the country, DOEE will develop COVID-appropriate guidance to run at least five of programs through, including community engagement, product stewardship collection events, sustainable material management and sustainable business programming. This guidance will be shared with other District Government agencies as appropriate.	01-31-2021
Deepen racial equity work through internal training and piloting equity tools	In FY 2021, DOEE will deepen its racial equity work through internal staff training and piloting the Racial Equity Impact Assessment (REIA) tool that was created in FY20. Staff training will consist of at least three cohorts of staff participating in racial equity programs by December 2020. DOEE's Urban Sustainability Administration will also use the REIA to evaluate and adapt its current community and business engagement (such as training opportunities, engagement materials, and community events like the District Sustainability Awards) to be more meaningful and culturally-relevant for residents and workers across the city, particularly communities of color.	09-30-2021
Launch Infrastructure Grant Program to support Increased Orogramming at District farms	In FY21, DOEE Office of Urban Agriculture (OUA) will launch a grant program, making funding available to no fewer than four District farms to support the construction of much needed infrastructure for growing, processing, and storing locally produced crops. This program is a direct response to requests from District farmers and will be implemented in partnership with the DC Food Policy Council, The University of the District of Columbia and the Department of Parks and Recreation. Additionally, in effort to support the Urban Farm Land Lease Amendment Act, OUA will soil test sites being made available for the Urban Farm Land Lease Program.	09-30-2021