

# Department of Energy and Environment FY2023

Agency Department of Energy and Environment

Agency Code KGO

Fiscal Year 2023

**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.
7	Reduce the water burden on the District’s most vulnerable and low-income populations by helping with water utility assistance and through residential services related to lead.

## Key Performance Indicators (KPIs)

Measure	Directionality	FY 2020 Actual	FY 2021 Actual	FY 2022 Target	FY2022 Actual	FY 2023 Target
<b>1 - Conserve the natural environment and wildlife of the District, and restore and protect aquatic resources from pollution and degradation (2 Measure records)</b>						
Number of trees planted by DOEE to help the District meet its goal of 40 percent tree canopy coverage by 2032	Up is Better	2390	3290	3000	4098	3500
Percent of District land retrofitted with green infrastructure that prevents stormwater runoff from becoming pollution	Up is Better	4.6%	5.2%	5.5%	5.6%	6%
<b>2 - Protect the public health of all District residents by improving the environment in areas related to air, soil, and indoor pollution (3 Measure records)</b>						
Compliance rate of underground storage tanks inspected	Up is Better	93.9%	96.5%	72%	98.2%	82%
Percentage of properties with identified lead-based paint hazards that are issued an Enforcement Order or a Notice related to the identification of a lead-based paint hazard within 28 days of the property’s risk assessment	Up is Better	84.8%	92.7%	90%	100%	90%
Percent of lead-safe and healthy housing clients who are referred to DOEE that receive an initial contact call or letter in accordance with the Healthy Housing Standard Operating Procedures	Up is Better	New in 2023	New in 2023	New in 2023	New in 2023	New in 2023
<b>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 Measure records)</b>						
Compliance rate of energy benchmarking for public buildings and buildings over 25,000 sq ft	Up is Better	96%	96%	80%	84%	85%
Number of low-income households receiving solar installations/benefits	Up is Better	2732	2829	2000	1091	2000
<b>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</b>						

Measure	Directionality	FY 2020 Actual	FY 2021 Actual	FY 2022 Target	FY2022 Actual	FY 2023 Target
<b>the District remains a national and international leader in sustainability and climate change. (2 Measure records)</b>						
Percent of all actions in the current Sustainable DC Plan that are complete	Up is Better	25.3%	8.4%	15%	12%	15%
Percent of greenhouse gas emissions reduction from the 2006 baseline year to meet 2050 goal	Up is Better	27%	31%	33%	Not Available	36%
<b>5 - Administer efficient and effective environmental enforcement operations, strategies, and outreach that bring polluters into compliance with the District's environmental laws (2 Measure records)</b>						
Air monitoring network performance-Percent of data captured for submitting to EPA's national air quality database	Up is Better	93.5%	95.8%	75%	96%	75%
Rate of Compliance with District Environmental Law Detected through Inspections	Up is Better	89.8%	86%	75%	62.1%	75%

## Operations

Operations Title	Operations Description	Type of Operations
<b>1 - Conserve the natural environment and wildlife of the District, and restore and protect aquatic resources from pollution and degradation (1 Activity)</b>		
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
<b>2 - Protect the public health of all District residents by improving the environment in areas related to air, soil, and indoor pollution (1 Activity)</b>		
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, radon exposure, mold remediation licensing, air quality, pesticides, hazardous waste, underground storage tanks, and contaminated site remediation.	Daily Service
<b>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)</b>		
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
<b>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)</b>		
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
<b>5 - Administer efficient and effective environmental enforcement operations, strategies, and outreach that bring polluters into compliance with the District's environmental laws (1 Activity)</b>		
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
<b>6 - Create and maintain a highly efficient, transparent, and responsive District government. (1 Activity)</b>		

Operations Title	Operations Description	Type of Operations
Operation services performed by the agency	Agency Support	Daily Service
<b>7 - Reduce the water burden on the District's most vulnerable and low-income populations by helping with water utility assistance and through residential services related to lead. (1 Activity)</b>		
Utility assistance and residential services provided by agency	The DOEE Utility Affordability Administration administers energy efficiency and weatherization programs that help District residents use less energy and provides direct financial assistance and discounts to low-income residents to help off-set their energy and water bills.	Daily Service

## Workload Measures (WMs)

Measure	FY 2020 Actual	FY 2021 Actual	FY2022 Actual
<b>1 - Natural resources services performed by agency (11 Measure records)</b>			
Number of Stormwater Retention Credit Use Applications Processed	New in 2023	New in 2023	New in 2023
Number of Soil Erosion and Sediment Control plans Approved	New in 2023	New in 2023	New in 2023
Number of Stormwater Management plans Approved	New in 2023	New in 2023	New in 2023
Number of properties receiving water bill discounts through the RiverSmart Rewards program	New in 2023	New in 2023	New in 2023
Number of Construction Stormwater Inspections	Not Available	707	764
Number of industrial stormwater inspections	Not Available	52	70
Number of Stormwater Management Plan Maintenance Notices issued	Not Available	41	178
Number of Food Service Ware inspections	153	253	257
Number of Bag Law inspections	215	156	458
Number of RiverSmart Homes audits performed	847	1321	1068
Number of Aquatic Resources Education Center program participants	1206	1147	3764
<b>2 - Environmental health services performed by agency (6 Measure records)</b>			
Number of hazardous waste inspections conducted	48	82	97
Number of Significant Operational Compliance inspections of underground storage tanks conducted	72	56	74
Number of National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos permits processed	467	492	498
Number of contaminated site clean-ups under regulatory oversight in the District	104	32	175
Number of leaking UST (underground storage tank) cleanups completed	Not Available	19	24
Number of pesticide inspections conducted	56	130	104
<b>3 - Energy services provided by agency (1 Measure)</b>			
Amount of solar capacity installed (MW) through DOEE-funded projects	Not Available	Not Available	6481.1
<b>4 - Sustainability and engagement activities performed by the agency (3 Measure records)</b>			
Number of newsletters containing environmental and sustainability engagement messaging	New in 2023	New in 2023	New in 2023
Number of school visits, community meetings, and events where environmental and sustainability programs, activities, and initiatives are promoted	50	36	40
Number of social media posts containing environmental and sustainability engagement messaging	2340	1328	1613
<b>5 - Enforcement services performed by the agency (2 Measure records)</b>			
Number of Notices of Infraction processed	312	225	223
Amount collected from fines and penalties	\$229,082	\$130,414.9	\$272,293
<b>6 - Operation services performed by the agency (3 Measure records)</b>			
Number of participants enrolled in a DOEE workforce training program	Not Available	Not Available	108
Number of participants completed a DOEE workforce training program	Not Available	Not Available	63
Number of participants in a DOEE workplace training program placed in full-time job post program	Not Available	Not Available	32
<b>7 - Utility assistance and residential services provided by agency (5 Measure records)</b>			
Number of low-income households receiving water assistance through the Low-Income Household Water Assistance Program (LIHWAP)	Not Available	Not Available	3565
Number of low-income households receiving Clean Rivers Impervious Area Charge (CRIAC) Relief	4706	5523	8700

Measure	FY 2020 Actual	FY 2021 Actual	FY2022 Actual
Number of low-income households receiving energy efficiency measures and services	402	490	558
Number of residents receiving assistance under the Lead Pipe Replacement Assistance Program	131	224	241
Number of low-income households receiving home energy assistance through the Low-Income Home Energy Assistance Program (LIHEAP)	15,779	13,189	16,772

## Strategic Initiatives

Strategic Initiative Title	Strategic Initiative Description	Proposed Completion Date
<b>Energy services provided by agency (2 Strategic Initiative records)</b>		
Enhance Energy Resilience	In FY23, DOEE will facilitate the interconnection of at least 1 MwHrs of behind-the-meter battery storage paired with new or existing solar to the grid at residential and commercial properties to enable islanding in the event of a blackout, maximize on-site solar power utilization, and improve resilience. DOEE will identify existing SFA I&E grant recipients and potentially others that provide NEM solar to MF buildings and work with them to amend their grant or award a new grant or facilitate a relationship with the DC SEU to be the recipient of grant funding through a competitive process to heavily subsidize the purchase of a battery and support with technical support the interconnection requests to enable the islanding function of the battery. Will work with grant recipients to ensure that they meet the single-customer microgrid designation as prescribed by the PSC in its recently established Microgrid Rule Makings.	09-30-2023
Launch the District's Appliance Standards Program	In FY23, DOEE will launch the District Appliance Efficiency Standards (DAES) Program. The DAES Program establishes minimum energy and water efficiency standards for certain products that can be sold, rented, leased, or installed in the District. As part of the DAES Program DOEE will: (1) develop a process and/or guidance for manufactures to test, certify, & label products that meet the efficiency standards; (2) provide education and outreach to retailers, distributors, and installers to assist with compliance; (3) conduct inspections to verify compliance; (4) take appropriate enforcement actions on entities that are out of compliance; and (5) analyze current Program standards and market data to track and assess Program progress and make Program recommendations.	09-30-2023
<b>Environmental health services performed by agency (4 Strategic Initiative records)</b>		
Finalize Rail Fee Regulation	In FY23, DOEE will complete the process of implementing the proposed Rail Fee Regulations and develop a protocol for auditing the number of rail cars entering and leaving the District of Columbia. Rail personnel is currently working with DOEE's legal team to address comments regarding the Rail Fee Regulations, NPRM. Upon completion of the rulemaking, DOEE will develop a Standard Operating Procedure (SOP) to facilitate auditing rails cars entering and leaving the District.	09-30-2023
Implement the EPA LUST Cleanup Performance Pool Project	In FY23, DOEE will implement the EPA LUST Cleanup Performance Pool Project to improve cleanup and case closure of 1 to 6 LUST sites in Environmental Justice locations in the District. This includes site assessments, UST removals, remediation, community involvement, and associated activities in corrective action. This initiative included partnership and funding from EPA Region 3, DOEE will work with EPA, Tetra Tech Consultants, the Responsible Parties, stakeholders, and communities in these locations to investigate the status of contamination and to implement corrective action. By the end of this process s few more communities in environmental justice areas should be educated/informed of LUST issues and see an improvement in the cleanup of contamination. This should reduce the LUST backlog of contaminated sites and bring closure to long-outstanding sites.	09-30-2023
Implement a New Operational Water Compliance Plan	In FY23, DOEE will develop, implement, and evaluate a new Operational Water Compliance Plan. The plan will incorporate requirements of D.C. Law 22-21, Childhood Lead Exposure Prevention Amendment Act of 2017 and facility specific strategic preventative measures for reducing or eliminating sources of lead in water. The plan will also include training child development facility Directors and staff, and provide coordinated onboarding efforts for new facilities with OSSE.	09-30-2023
Hyperlocal Monitoring District-Wide Expansion	In FY23, DOEE will expand the hyperlocal monitoring pilot program to cover a robust geography of the District and a diversity of time periods and other scenarios. DOEE will use this data to better inform regulation development and other air quality programs. Data collected from the program will be made publicly available to the affected communities. The contractor and DOEE will work to partner with community groups in overburdened communities to examine the data and hold webinars to engage the community with the data. We expect data collection to commence early in FY23 and continue throughout the year.	09-30-2023
<b>Natural resources services performed by agency (5 Strategic Initiative records)</b>		
Implement 3rd Party ESC Inspection program in DCRA Tertius Application	In FY23, DOEE will implement the first 3rd party inspection program for compliance monitoring of erosion and sediment control pre-construction inspections and final stabilization inspections of minor projects that require a DOEE approved Erosion and Sediment Control Plan. The program will be implemented as a module in the already implemented DCRA Tertius Program.	09-30-2023
New Monitoring and Analytical Tools to Inform Swimming Decision-Making	In FY23 (Year 1), DOEE will complete multiple studies to investigate new monitoring methods and analytical tools to enhance current capability to determine if water quality conditions allow for safe swimming, including: 1) rapid molecular sampling methods that can provide same-day results regarding fecal coliform bacteria concentrations; 2) novel fluorometric methods that may provide ability for real-time monitoring of bacterial concentrations; and 3)	09-30-2024

Strategic Initiative Title	Strategic Initiative Description	Proposed Completion Date
	predictive modeling to forecast when water quality will support swimming based on environmental conditions. DOEE will also engage local stakeholders to develop a plan for an evidence-based monitoring program to support swimming. DOEE staff will also seek to engage experts from at least 3 other cities with urban beach/swimming programs to gain insight into how they have or are planning to support swimming in urban waters.	
Integrated Flood Model	In FY23 (Year 2), DOEE will continue to implement the Integrated Flood Model (IFM). With IFM, DOEE will be able to develop maps of where flooding is expected to occur, now and in a future with heavier rain and sea level rise. There are areas of the city that are vulnerable, and with these maps, we will be able to identify all DC's flood risk areas, do more targeted outreach to flood vulnerable residents, and propose infrastructure in places that we know will reduce flood risk in neighborhoods that need it the most. DOEE expects to see the following deliverables: A Systems Architecture Document (that shows final decisions on how the IFM will be constructed), a Detailed Workplan (updating the project delivery schedule based on the contractors review of available data and decisions from Systems Architecture Document), field surveys of pipe and sewer systems to calibrate the model, and initial drafts of first maps showing the District's flood risk.	09-30-2027
FloodSmart Homes	In FY23, DOEE will begin the rollout and implementation of FloodSmart Homes. Key milestones include: awarding a contract for the assessments of individual homes; developing and issuing an RFA to award a grant for a grantee to manage the installation of resilience upgrades identified by the assessments; and conduct public outreach and residents signing up for free assessments. By the end of FY23, DOEE and its contractors and grantees will have conducted some in-home assessments, and will have begun installing initial upgrades. Success in early assessments and upgrades will help spread the word about this program and encourage more and more residents to sign up and become more resilient.	09-30-2023
Green Stormwater Infrastructure Maintenance	In FY23, DOEE will maintain 4,000 Green Stormwater Infrastructure (GSI) facilities through GSI and train 25 people through GSI maintenance training grants. Additionally DOEE will develop a GSI signage plan for District owned facilities. The agency will assess existing 1,000 GSI facilities to understand their condition, and will maintain 2,000 GSI facilities through contracting vehicles. Finally while the agency uses a cooperative agreement as a bridge contract it will, with the aid of OCP, develop and issue a solicitation for the long-term maintenance of District-owned and District-installed GSI.	09-30-2023
<b>Sustainability and engagement activities performed by the agency (3 Strategic Initiative records)</b>		
SDC 10-year Update Targets Analysis	In FY23, DOEE will manage the launch of the required 10-year update to the Sustainable DC (SDC) Plan in FY24. DOEE will review SDC 2.0 to analyze the Plan's impact on racial equity and complete an in-depth assessment of progress towards meeting the Plan's 35 targets. The analysis and proposed recommendations for the 10 year plan will help ensure work focused in the second half of the Plan's trajectory is anchored in racial equity and meaningful targets.	09-30-2023
Battery Stewardship Program Launch	In FY23, DOEE will launch the District's Battery Stewardship Program as mandated by the Zero Waste Act of 2020. DOEE will review the Battery Stewardship Organization's (BSO) first ever Battery Stewardship Plan, provide feedback, and guide the launch of citywide battery collection sites for residential recycling. DOEE's efforts will include outreach and education to residents about the new program, oversight of the BSO's plan implementation, and initial enforcement.	09-30-2023
Heat Ambassador Program Development	In FY23, DOEE will continue to build on the launch of Keep Cool DC, the District's heat adaptation strategy. DOEE will begin implementation by developing a proposal for a heat "ambassador" program, focusing on heat safety for vulnerable residents. This work is modeled on the well-regarded Hunts Point program in NYC, and will involve collaborating with HSEMA, ServeDC and/or other agencies to develop a proposal for a program through which volunteers check on vulnerable residents during heat emergencies.	09-30-2023
<b>Utility assistance and residential services provided by agency (2 Strategic Initiative records)</b>		
Decarbonization of Energy in LMI Households	In FY23, DOEE will convert 15 households from fossil-fuel based systems to electricity-based systems. DOEE will identify households that are currently utilizing fossil-fuel based sources such as delivered oil or natural gas. DOEE will work with these households to install the heavy-up that may be needed as well as the new electricity-based equipment. DOEE will track program progress, lessons learned, and barriers to implementation.	09-30-2023
Targeted Outreach to 100 LIHEAP-Assisted Households with the Highest Energy Burden	In FY23, DOEE will identify 100 assisted households in the District and implement a case management and referral approach in order to reduce these households overall energy burden. DOEE will conduct surveys, case management, and other outreach in order to determine the possible sources or reasons for unusually high usage. Once the causes are identified, DOEE will link the household with available resources such as weatherization and solar for all in order to reduce their over energy demand.	09-30-2023