

Department of Energy and Environment FY2022

Agency Department of Energy and Environment

Agency Code KGO

Fiscal Year 2022

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 energy and water burden on the District's most vulnerable and low-income populations by helping with utility assistance and residential services related to energy efficiency and lead.

Key Performance Indicators (KPIs)

Measure	Directionality	FY 2019 Actual	FY 2020 Actual	FY 2021 Actual	FY 2022 Target
1 - Conserve the natural environment and wildlife of the District, and restore and protect aquatic resources from pollution and degradation (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	3238	2390	3290	3000
Percent of District land retrofitted with green infrastructure that prevents stormwater runoff from becoming pollution	Up is Better	4.1%	4.6%	5.2%	5.5%
Square footage of green roofs installed	Up is Better	616,566	649,641	884,092	500,000
2 - Protect the public health of all District residents by improving the environment in areas related to air, soil, and indoor pollution (3 Measures)					
Compliance rate of underground storage tanks inspected	Up is Better	86.1%	93.9%	96.5%	72%
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	0.4%	0.5%	0.5%	1%
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	88.6%	84.8%	92.7%	90%
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 Measure)					
Compliance rate of energy benchmarking	Up is Better	95.9%	96%	96%	80%
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 DOEE actions in the Sustainable DC Plan complete	Up is Better	32.9%	25.3%	8.4%	15%
Percent of greenhouse gas emissions reduction from the 2006 baseline year to meet 2050 goal	Up is Better	30%	27%	31%	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	79.5%	89.8%	86%	75%
Air monitoring network performance- Percent of data captured for submitting to EPA's national air quality database	Up is Better	New in 2020	93.5%	95.8%	75%

Operations

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 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 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
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 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)		
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 environmental 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

Operations Title	Operations Description	Type of Operations
6 - Create and maintain a highly efficient, transparent, and responsive District government. (1 Activity)		
Operation services performed by the agency	Agency Support	Daily Service
7 - Reduce the energy and water burden on the District's most vulnerable and low-income populations by helping with utility assistance and residential services related to energy efficiency and lead. (1 Activity)		
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 2019 Actual	FY 2020 Actual	FY 2021 Actual
1 - Natural resources services performed by agency (8 Measures)			
Number of Construction Stormwater Inspections	New in 2021	New in 2021	707
Number of industrial stormwater inspections	New in 2021	New in 2021	52
Number of Stormwater Management Plan Maintenance Notices issued	New in 2021	New in 2021	41
Number of Food Service Ware inspections	310	153	253
Number of Bag Law inspections	553	215	156
Number of RiverSmart Homes audits performed	1207	847	1321
Number of Aquatic Resources Education Center participants	6647	1206	1147
Number of Stormwater Retention Credits sold since program inception	New in 2021	New in 2021	1,364,378
2 - Environmental health services performed by agency (6 Measures)			
Number of hazardous waste inspections conducted	91	48	82
Number of Significant Operational Compliance inspections of underground storage tanks conducted	84	72	56
Number of National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos permits processed	488	467	492
Number of contaminated site clean-ups under regulatory oversight in the District	27	104	32
Number of leaking UST (underground storage tank) cleanups completed	New in 2021	New in 2021	19
Number of pesticide inspections conducted	76	56	130
4 - Sustainability and engagement activities performed by the agency (2 Measures)			
Number of school visits, community meetings, and events where environmental and sustainability programs, activities, and initiatives are promoted	128	50	36
Number of social media posts and electronic communications containing environmental and sustainability engagement messaging	2900	2340	1328
5 - Enforcement services performed by the agency (2 Measures)			
Number of Notices of Infraction processed	481	312	225
Amount collected from fines and penalties	\$390,892.3	\$229,082	\$130,414.9
7 - Utility assistance and residential services provided by agency (2 Measures)			
Number of low-income households receiving water assistance through the Low-Income Household Water Assistance Program (LIHWAP)	New in 2022	New in 2022	New in 2022
Number of low-income households receiving CRIAC Relief	New in 2020	4706	5523

Strategic Initiatives

Strategic Initiative Title	Strategic Initiative Description	Proposed Completion Date
Energy services provided by agency (1 Strategic Initiative)		
Implement the transformative Retrofit Accelerator for the Affordable Housing Sector	In FY22, DOEE will stand up and implement the Retrofit Accelerator for buildings that do not meet the Building Energy Performance Standards (BEPS). As part of the Accelerator, DOEE will deliver one or more of the following to affordable housing: (1) technical support in the form of energy audits, retro-commissioning, and/or energy data verification; (2) financial support in the form of favorable construction and pre-development loans; and (3) education around the BEPS compliance requirements and process for compliance. These financial and technical resources will be delivered in close coordination with the Retrofit Accelerator partners, including but not limited to the D.C. Sustainable Energy Utility (DCSEU), the D.C. Green Bank (DCGB), the Building Innovation Hub (Hub), and affordable housing-specific sister agencies the D.C. Department of Housing and Community Development (DHCD), the D.C. Housing Finance Authority (DCHFA), and the D.C. Housing Authority (DCHA).	09-30-2022
Environmental health services performed by agency (1 Strategic Initiative)		
Hyperlocal Monitoring Pilot	In FY 2022 DOEE will pilot a hyperlocal monitoring program to explore neighborhood level air quality contaminant concentrations. This program will identify hot spots of air pollution focusing on wards 5,7, & 8. Data collected from the program will be made publicly available to the affected communities.	09-30-2022
Natural resources services performed by agency (3 Strategic initiatives)		
Green Stormwater Infrastructure Maintenance	DOEE will solicit and manage through a grant making process, Green Stormwater Infrastructure (GSI) maintenance training programs aimed at District residents and returning citizens. The agency will also issue an RFA for GSI maintenance grants and will oversee the implementation of those grants. Furthermore DOEE will establish at least one GSI maintenance contract to act as a bridge while it, with the aid of OCP, develops and issues a solicitation for the long-term maintenance of District-owned and District-installed GSI.	09-30-2022
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. DOEE anticipates having a contract awarded in mid FY-22, and by the end of FY22, the model software and hardware architecture selected, and future storm and rainfall scenarios selected.	09-30-2022
Kingman Island Rangers	DOEE will solicit through a grant making process, the Kingman Island Rangers Program. The agency will also oversee the management of the grant - an effort to improve safety and restore habitat on Kingman and Heritage Islands and create pathways to stable employment for District residents and students. The grant will hire, train, and employ two full-time Rangers and three part-time Rangers for Kingman and Heritage Islands.	09-30-2022
Sustainability and engagement activities performed by the agency (2 Strategic initiatives)		
Keep Cool DC	Building on previous work, in FY22, DOEE will finalize and release Keep Cool DC, the District's comprehensive heat plan. To date, we have partnered to engage local service providers and members of communities most affected by extreme heat, led by an environmental justice advocate to ensure equity and inclusion was foremost in the process. Combined with heat risk mapping that incorporates heat sensitivity and exposure, this work will help people in DC's most affected neighborhoods cope with extreme heat, using community engagement to develop values-based strategies and resources and make investments that enhance preparedness and urban heat adaptation.	09-30-2022

Strategic Initiative Title	Strategic Initiative Description	Proposed Completion Date
Implement agency-wide racial equity training and tools	In FY 2022, DOEE will deepen its racial equity work by implementing mandatory, self-guided racial equity trainings for all agency staff as part of our Equity at DOEE rollout that launches in Q1. In Q2, all divisions will participate in agency-wide beta testing of DOEE's 2nd edition racial equity impact assessment (REIA). Divisions will be mandated to complete the REIA process and tool for a project or program within their division, and report on the findings. This can be an existing project or a new one. DOEE will develop procedures for orienting and training new staff members in DOEE's Equity Framework and racial equity tools. DOEE will participate in and inform the Office of Racial Equity's first cohort of agencies.	09-30-2022
Utility assistance and residential services provided by agency (1 Strategic Initiative)		
Implement a "whole home" approach to address energy efficiency, lead, and mold hazards in low-income households	Building on the strategic initiative that was implemented in FY21, Utility Affordability Administration (UAA) will expand on the achievements of the weatherization plus lead remediation program to include mold and moisture hazards. The goal of this program will be to expand measures to include addressing mold and moisture issues and reduce the number of deferrals that are due to roof leaks. DOEE received American Rescue Plan funds for this purpose.	09-30-2022

American Rescue Plan Act KPIs

Measure	Directionality	ARPA Expenditure Code	ARPA Initiative	ARPA Sub-Initiative	ARPA Project Name	FY 2019 Actual	FY 2020 Actual	FY 2021 Actual	FY 2022 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. (1 Measure)									
Number of low-income households receiving solar installations/benefits	Up is Better	2.02	Economic Recovery for Residents and Businesses	Green Transition	Solar for All Expansion	8526	2732	2829	2000

American Rescue Plan Act WMs

Measure	ARPA Expenditure Code	ARPA Initiative	ARPA Sub-Initiative	ARPA Project Name	FY 2019 Actual	FY 2020 Actual	FY 2021 Actual
3 - Energy services provided by agency (4 Measures)							
Amount of solar capacity installed (MW) through DOEE-funded	2.02	Economic Recovery for Residents and Businesses	Green Transition	Solar for All Expansion	New in 2022	New in 2022	New in 2022
Number of workers enrolled in Solar Works DC Training	2.07	Economic Recovery for Residents and Businesses	Green Transition	Solar Works DC Expansion	New in 2022	New in 2022	New in 2022
Number of workers completing Solar Works DC Training	2.07	Economic Recovery for Residents and Businesses	Green Transition	Solar Works DC Expansion	New in 2022	New in 2022	New in 2022
Number of Solar Works DC trainees placed in full-time job post program	2.07	Economic Recovery for Residents and Businesses	Green Transition	Solar Works DC Expansion	New in 2022	New in 2022	New in 2022
7 - Utility assistance and residential services provided by agency (3 Measures)							
Number of low-income households receiving home energy assistance through the Low-Income Home Energy Assistance Program (LIHEAP)	2.03	Economic Recovery for Residents and Businesses	Green Transition	Home Weatherization Assistance	20,236	15,779	13,189
Number of low-income households receiving energy efficiency measures and services	2.03	Economic Recovery for Residents and Businesses	Green Transition	Home Weatherization Assistance	360	402	490
Number of residents receiving assistance under the Lead Pipe Replacement Assistance Program	5.12	Economic Recovery for Residents and Businesses	Lead Pipe Replacement	Lead Pipe Replacement Program	New in 2020	131	224