

# Department of Energy and Environment FY2017

## FY2017 Performance Accountability Report

The Performance Accountability Report (PAR) measures each agency's performance for the fiscal year against the agency's performance plan and includes major accomplishments, updates on initiatives, and key performance indicators (KPIs).

## 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.

## Summary of Services

DOEE is the leading authority on energy and environmental issues affecting the District of Columbia. Using a combination of regulations, outreach, education, and incentives, our agency administers programs and services to fulfill our mission. We work collaboratively with other government agencies, residents, businesses, and institutions to promote environmentally responsible behavior that will lead to a more sustainable urban environment.

## FY17 Top Accomplishments

Accomplishment	Impact on Agency	Impact on Residents
DOEE's DC Property Assessed Clean Energy (PACE) program had a landmark year with nearly \$30 million in private financing across 10 projects, including \$25 million for the DC United's Audi Field (the largest commercial PACE note financed by a single lender in the nation).	DOEE is now operating the largest per capita PACE program in the nation, and is increasingly leveraging private investment (which maximizes the use of limited public funds) in clean energy in the District, which will benefit residents, property owners, and local government.	DC PACE financed clean energy upgrades for multifamily housing, small businesses, and a house of worship. Residents and property owners will enjoy cleaner energy, lower energy usage, and climate-related benefits.
DOEE completed multiple stream restoration projects, including the Alger Park stream restoration project in the Hillcrest Neighborhood in Ward 7 and the Springhouse Run stream restoration project at the U.S. Arboretum in Ward 5. Additionally, DOEE started stream restoration projects in at Fort Dupont Park and Spring Valley.	Stream restoration projects are an important strategy and tool for DOEE in its efforts to comply with federal water quality laws and water quality regulations.	These stream restoration projects will improve water quality, particularly within the Anacostia River Watershed, bringing the District closer to achieving the Sustainable DC goal of having a fishable and swimmable Anacostia River.
Washington, DC was named the first LEED for Cities Platinum certified city in the world.	This certification is in large part to DOEE's and the District's continued leadership and accomplishments in areas of sustainability, green building, water management, clean energy, climate change, and resilience. This recognition confirms and supports that DOEE is establishing and implementing effective strategies to help make the District the healthiest, greenest, and most livable city in the nation.	District residents play an active role in supporting and implementing many of the initiatives and strategies that achieved this certification for the City, and residents will benefit from a greener, healthier, more sustainable urban environment.

## 2017 Strategic Objectives

Objective Strategic Objective

Number	
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, businesses, and institutions in meaningful and equitable ways to increase understanding and adoption of innovative sustainability practices, and implement cutting edge programs and policies that ensure the District remains a national and international leader in areas of sustainability, green building deployment and climate change mitigation and adaptation.
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.**

## 2017 Key Performance Indicators

Measure	Freq	Target	Q1	Q2	Q3	Q4	FY 2017	KPI Status	Explanation
<b>1 - Conserve the natural environment and wildlife of the District, and restore and protect aquatic resources from pollution and degradation (3 Measures)</b>									
Square footage of green roofs installed	Quarterly	225000	88616	24426	105441	145317	363800	Met	
Percentage of District land retrofitted with green infrastructure that prevents stormwater runoff from becoming pollution	Quarterly	2.2%	2.6%	2.6%	2.7%	2.9%	2.7%	Met	
Number of trees planted by DOEE to help the District meet its 40 percent tree canopy goal by 2032	Quarterly	2050	1630	867	892	0	3389	Met	
<b>2 - Protect the public health of all District residents by improving the environment in areas related to air, soil, and indoor pollution (5 Measures)</b>									
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	Quarterly	100%	100%	100%	100%	No applicable incidents	100%	Met	
Percentage 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	Annually	1.1%	Annual Measure	Annual Measure	Annual Measure	Annual Measure	0.7%	Met	
Number of days in which ozone levels exceed the National Ambient Air Quality	Quarterly	12	0	0	0	2	2	Met	

Standards									
Compliance rate of permitted minor sources, e.g., gas stations and drycleaners, inspected	Quarterly	85%	100%	75%	100%	86.7%	87%	Met	
Compliance rate of underground storage tanks inspected	Quarterly	85%	100%	87.9%	86.7%	90.7%	89.5%	Met	
<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. (4 Measures)</b>									
Number of low-income units weatherized	Quarterly	220	0	0	43	581	624	Neutral Measure	
Compliance rate of energy benchmarking	Annually	90%	Annual Measure	Annual Measure	Annual Measure	Annual Measure	75.5%	Unmet	Target compliance rate was not met due to DOEE expanding its inspection process per District law. The inspection process is now more robust, sometimes resulting in building owners taking more time to try to reach compliance.
Percentage of renewable energy usage in the District	Quarterly	13.5%	13.6%	13.6%	13.6%	13.6%	13.6%	Met	
Number of solar installations incentivized for renewable energy for low income residents	Quarterly	140	0	0	0	20	20	Unmet	DOEE's original solar incentive program that contributed to this KPI was replaced with Solar for All. Installations under Solar for All will

										continue to increase as grants were awarded and work began in earnest late in FY17.
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**4 - Increase engagement with District residents, businesses, and institutions in meaningful and equitable ways to increase understanding and adoption of innovative sustainability practices, and implement cutting edge programs and policies that ensure the District remains a national and international leader in areas of sustainability, green building deployment and climate change mitigation and adaptation. (4 Measures)**

Percentage of actions in the Sustainable DC Plan under way	Quarterly	79	79	79	72	72	72	Neutral Measure	
Percent of greenhouse gas emissions reduction from the 2006 baseline year to meet 2050 goal	Annually	27%	Annual Measure	Annual Measure	Annual Measure	Annual Measure	23.8%	Unmet	A 27% reduction in greenhouse gas emissions remains a very aggressive, but important goal for the District to strive for. This measure is somewhat complicated by multiple factors outside of the District's control.
Number of LEED certified projects in the District	Quarterly	600	720	796	827	861	861	Met	
Percentage of actions in the Sustainable DC Plan complete	Quarterly	16.8	14.7	17.5	25.2	25.2	25.2	Met	

**5 - Administer efficient and effective environmental enforcement operations, strategies, and outreach that bring polluters into compliance with the District's environmental laws (1 Measure)**

Compliance rate achieved through Notices of Infraction	Quarterly	60%	32.6%	1.2%	34.5%	26.7%	17%	Unmet	The method of calculating compliance was modified in order to
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achieve more accurate record keeping. DOEE will update the wording of this KPI for FY18 so that it produces more useful and accurate reporting results.

We've revisited a project to standardize District wide measures for the Objective "Create and maintain a highly efficient, transparent and responsive District government." New measures will be tracked in FY18 and FY19 and published starting in the FY19 Performance Plan.

## 2017 Workload Measures

Measure	Freq	Q1	Q2	Q3	Q4	FY 2017
<b>1 - Natural resources services performed by agency (11 Measures)</b>						
Number of requests to respond to potential spills, releases, and other potential environmental emergencies	Quarterly	36	32	39	43	150
Number of RiverSmart Homes audits performed	Quarterly	190	134	286	320	930
Number of rain gardens installed by RiverSmart Homes	Quarterly	18	9	28	67	122
Number of installations for RiverSmart Communities Program	Quarterly	0	0	1	1	2
Number of stormwater management and erosion/sediment control inspections	Quarterly	934	1078	952	1076	4040
Number of Bag Law inspections	Quarterly	111	154	164	126	555
Number of coal tar inspections	Quarterly	1	0	46	17	64
Number of Foam Ban inspections	Quarterly	58	59	80	112	309
Number of MS4 outfalls inspected	Quarterly	62	59	55	53	229
Number of MS4 facilities inspected	Quarterly	34	30	21	21	106
Number of Aquatic Resources Education Center visitors	Quarterly	747	617	2872	1356	5592
<b>2 - Environmental health services performed by agency (8 Measures)</b>						
Number of contaminated site clean-ups under regulatory oversight in the District	Quarterly	22	22	22	22	22
Number of open leaking UST remediation sites under regulatory oversight	Quarterly	151	152	147	148	148
Number of Brownfield assessments completed	Quarterly	0	0	0	0	0

Number of full-compliance evaluations of Title V facilities	Quarterly	0	6	6	7	19
Number of asbestos inspections conducted	Quarterly	32	33	13	21	99
Number of Significant Operational Compliance inspections of underground storage tanks conducted	Quarterly	4	33	30	19	86
Number of pesticide marketplace inspections conducted	Quarterly	0	0	10	69	79
Number of hazardous waste inspections conducted	Quarterly	12	41	118	69	240
<b>3 - Energy services provided by agency (2 Measures)</b>						
Number of buildings reporting ENERGY STAR benchmarking data to DOEE	Annually	Annual Measure	Annual Measure	Annual Measure	Annual Measure	1460
Number of households receiving energy assistance	Quarterly	9826	4920	3271	3153	21170
<b>4 - Sustainability and engagement activities performed by the agency (3 Measures)</b>						
Number of businesses and institutions participating in sustainability pledges or challenges	Quarterly	208	208	130	130	130
Number of social media posts and electronic communications containing environmental and sustainability engagement messaging	Quarterly	526	402	673	428	2029
Number of school visits, community meetings, and events where environmental and sustainability programs, activities, and initiatives are promoted	Quarterly	40	29	17	124	210
<b>5 - Enforcement services performed by the agency (2 Measures)</b>						
Amount collected from fines and penalties	Quarterly	\$47592.4	\$66690.7	\$40032	\$42100.9	\$196416
Number of Notices of Infraction processed	Quarterly	63	184	32	64	343

## 2017 Strategic Initiatives

Title	Description	Complete to Date	Status Update	Explanation
<b>Energy services (5 Strategic initiatives)</b>				
Increase enrollment in Utility Discount Programs (UDP) and provide energy efficiency and renewable energy incentives to help reduce the energy costs of low-income households	In FY 17, DOEE aims to increase enrollment in the UDP by processing applications during the LIHEAP energy benefit intake appointment time to ensure that qualifying residents receive their LIHEAP and UDP benefits simultaneously. DOEE will promote the ability to apply for energy assistance and UDP through the online portal, and will utilize the energy assistance processing software to increase the timeliness of processing applications received through the UDP recertification process. DOEE will build upon collaborative efforts with the DCSEU to strategically target low income households that are high energy users and LIHEAP energy benefit assistance recipients, to provide deep energy efficiency, weatherization improvements, and solar systems. DOEE will use data analyzed in FY16 to target households with high energy burdens and improve data and software systems to further streamline the processes for each program.	Complete	The program remained open throughout the entire fiscal year which allowed income-eligible constituents in need of utility assistance to apply for and receive utility assistance and utility discounts.	

<p>Modify the District's Benchmarking Reporting Template and utilize building energy benchmarking data to develop next-generation energy performance policies and drive deeper energy savings</p>	<p>In FY 17, DOEE plans to modify the District's Benchmarking Reporting Template to facilitate the transfer of monthly energy consumption data from EPA's Energy Star Portfolio Manager Tool. Collecting energy consumption data on a more granular level will allow DOEE and the DCSEU to better understand the consumption patterns of the District's largest energy users, and design programs that result in larger energy savings. DOEE will work with the Public Service Commission and the electric utility company to provide the DCSEU real-time access to utility consumption data for buildings that are required to submit an annual benchmarking report. DOEE will work with the DCSEU to put the benchmarking data to work by developing a suite of energy performance tools and policies for public and private buildings, rooted in analysis of benchmarking data and the recommendations from the Comprehensive Energy Plan. DOEE will also continue to make it easier for District residents and businesses to access benchmarking data via public-facing District Benchmarking Visualization Map that will provide specifics about each building that has submitted an annual benchmarking report.</p>	<p>50-74%</p>	<p>DOEE continues to coordinate with EPA to update the Portfolio Manager software so monthly data can be collected. With DOEE support, DCSEU used benchmarking data to launch new tools for increasing energy savings. DCSEU and Pepco created a new process for DCSEU to get interval electricity data with permission. The data visualization map was launched in September.</p>	<p>Updating the Benchmark Reporting Template was not within DOEE's control; EPA needs to modify the Portfolio Manager software. DOEE and other cities continue to advocate for EPA to enable this; action is uncertain due to budget challenges. District law currently blocks DCSEU from accessing interval data in bulk from Pepco. DOEE, PSC, Pepco, and DCSEU continue to discuss a solution.</p>
<p>Expand opportunities to make solar power more accessible and affordable to District residents and businesses</p>	<p>In FY 17, DOEE will invest a substantial portion of the Renewable Energy Development Fund (REDF) to increase opportunities for community solar and on-site installations of solar and thermal systems. DOEE will implement a multiyear, multifaceted "Solar for All Program" to help small businesses, non-profits, seniors, and income-eligible households install and use more renewable energy. DOEE will collaborate with DGS and community solar developers to build solar systems on high potential and easily accessible District-owned buildings and facilities. DOEE will partner with the DCSEU and local financial institutions to expand solar financing options and reduce investment risks for solar contractors. DOEE will also develop a centralized online solar platform to provide information for customers to learn about solar programs, incentives, financing options, and to accelerate the adoption of solar and thermal systems.</p>	<p>Complete</p>	<p>DOEE awarded: \$13.2 million to 10 grantees for Solar for All DC Innovation &amp; Expansion Grants; \$5 million to DC Housing Authority for roof repair/replacement, solar installation, and battery storage; \$250,000 to Enterprise Community Partners to conduct a vulnerability assessment and improve resilience. DOEE also executed MOUs with DCPL (\$990K) and DGS (\$300) for solar projects.</p>	
<p>Conduct feasibility studies and develop proposals</p>	<p>In FY 17, DOEE will conduct studies and develop proposals that include: 1) the feasibility of community choice aggregation for Standard Offer Service customers using long-term power</p>	<p>Complete</p>	<p>DOEE released the RFA for the geothermal potential study, and</p>	

<p>for decarbonizing the District's energy system, with a focus on alternative sources for thermal comfort, efficient energy systems, and decarbonizing electricity from all segments of the electric system: consumption, distribution, transmission, and generation</p>	<p>purchase agreements maximizing renewable energy; 2) methods of renewable or low-carbon (waste heat) heating and cooling, including river cooling, geo-exchange, and biogas fuel-cell CHP; 3) feasibility of designing district energy systems including microgrids - a planning and evaluation tool for distributed energy resources; and 4) methods for reducing peak demand, including the use of battery storage as a demand response tool, to produce power during peak periods and reduce the cost of electricity, as well as other cost-effective demand response measures.</p>		<p>completed phase 1 of the market potential study for efficient air source heat pumps. DOEE is also drafting a proposal for the regional biomethane supply potential study.</p>	
<p>Lead the work on modernizing the District's energy delivery system through the Public Service Commission's Formal Case 1130 by developing a roadmap, identifying operational, planning, and policy issues, helping to develop tools and analysis that can solve those issues, and proposing and engaging in pilot projects to demonstrate key concepts and technologies.</p>	<p>Formal Case 1130 aims to realize an energy system that balances the priorities of sustainability, reliability, resiliency, efficiency, and affordability in the District. In FY 17, DOEE will continue to lead discussions and working groups representing the District Government in the collaborative stakeholder process, and will develop key pilot projects, concept studies, and analytical tools that will inform policy and regulatory issues. DOEE will participate in the overall infrastructure planning of the electric and natural gas distribution systems, including the strategic deployment of distributed energy resources like microgrids, and providing substantive input to ensure that the District's ratepayers realize the maximum possible benefit from utility investments and commercially available technologies. DOEE will continue to intervene in proceedings that will impact the modernization of the District's energy delivery systems to ensure that rate designs, incentives, and utility business-models promote sustainable and cost-effective solutions.</p>	<p>75-99%</p>	<p>DOEE developed additional policy and regulatory analyses and tools to deploy distributed energy resources. DOEE also made relevant filings through an initial comment for the related FC 1144.</p>	<p>Despite the progress made by DOEE, the initiative falls short of the original goal because the implementation of FC 1130 has been delayed by the PSC. DOEE is prepared to fully participate in FC 1130 proceedings once the work resumes.</p>

**Enforcement (2 Strategic initiatives)**

<p>Establish and maintain regulations that protect and improve the environment for District residents, specifically in the areas of natural resources, environmental</p>	<p>This initiative is continuing into FY 17, as DOEE is required to regularly update and improve the portions of the Municipal Code of Regulations under its regulatory authority to protect public health and the environment. The Department also develops new regulations when required by newly enacted laws, and develops regulations to enact new programs. By the end of FY 17 the Department expects to promulgate final versions of regulations to: update air quality permitting regulations, set standards around wetland management, wildlife protection, and energy efficiency.</p>	<p>Complete</p>	<p>The wildlife protection regulations were submitted to EOM in August for approval to submit the schedule of fine resolution to Council. Once Council passively approves the schedule of fines approval resolution, DOEE will publish the</p>	
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services, energy, and sustainability			final rulemaking in the D.C. Register.	
Develop and implement an environmental cost recovery program	In FY 17, DOEE will expand use of its authority to recover the money spent by the government to respond to pollution incidents. When a person or company is responsible for dumping, spilling, or other release of toxic substances, DOEE can require the polluter to undertake or pay for the cleanup. Under District laws, DOEE can seek reimbursement for the costs the District incurs in assessing the nature and extent of the threat, addressing the problem, and taking any necessary enforcement action. In FY 17, DOEE will develop and begin implementation of a program to help ensure that those who are responsible for pollution reimburse the District for its costs in responding to and monitoring cleanup operations.	Complete	DDOE has developed and begun implementation of a cost recovery program.	

**Environmental Services (5 Strategic initiatives)**

Complete Remedial Investigation (RI) of the Anacostia River and Washington Channel	In FY 17, DOEE will complete the RI of the Anacostia River and Washington Channel and will complete a second round of sampling to fill data gaps that were discovered in FY 15-16. DOEE will also perform work on tributaries that feed the Anacostia River and outfalls that directly impact both the river and the Washington Channel. The final RI report and draft Feasibility Study will be released in FY 17.	50-74%	DOEE completed the data validation for Phase II remedial investigation; the human health and ecological risk assessment is being revised; a hydrodynamic model is being developed for the main stem Anacostia River, Washington Channel, and Kingman Lake; and fate and transport of contaminants is also being evaluated in support of the feasibility study. Progress on the feasibility study includes updating the preliminary remediation goals, response action outcomes, and applicable or relevant and appropriate requirements.	This is a long-term, complicated initiative with a completion date in 2018, resulting in laying the groundwork to significantly improve the environmental quality of the Anacostia River.
Enhanced inspection of minor air pollution sources in the District	There are many minor sources of air pollution in the District, that when combined, account for approximately one-third of ozone formation emissions. Ensuring that these sources comply with applicable laws could measurably reduce air pollution in the District. In FY 16 (year one of this two-year initiative), DOEE expanded minor source inspections, with focus on permitted emergency generators and auto painting operations. In FY 17, DOEE will expand the monitoring of minor sources, starting with the development of written procedures for minor source	75-99%	Checklists were utilized to conduct the first-round of inspections at minor sources and feedback will be incorporated into improving the checklists. Inspections were optimized by	The program was not fully staffed for the FY which posed challenges.

	<p>inspections. Lists of minor sources will be verified for quality control. Further, inspection checklists will be developed and newly purchased iPads will be used to allow more efficient inspection and documentation of the inspections. These activities will increase the quantity and quality of inspections performed.</p>		<p>grouping facilities by location, and providing material to share with the regulated community in multiple languages. Inspection outcomes included further refinement of source lists, and identification of new material which is now under evaluation for regulation. Facilities where non-compliance was identified received notices, and inspections will be repeated.</p>	
<p>Revise the Voluntary Remediation Action Program (VRAP) to facilitate cleanup of more petroleum contaminated properties during redevelopment at leaking underground storage tank (LUST) sites</p>	<p>In FY 17, DOEE will develop new VRAP regulatory requirements and standard operating procedures, and evaluate the implementation of an application fee. The Department will also aim to increase participation in the program by streamlining the application and approval process.</p>	75-99%	<p>The application form and process have been amended in draft form, awaiting in-house review and approval. Regulations were already updated and now awaiting EPA review. Seven new VRAP cases were opened this fiscal year, 24 cases are currently open/active, for a total of 31 applications. 61 cases have been closed.</p>	<p>The VRAP process is being implemented along with our UST Regulations update. This process is impacted by the review timelines of EPA and other stakeholders.</p>
<p>Engage the public through outreach and compliance assistance focused on educating tenants and residential rental property owners and property managers about District requirements pertaining to tenant rights under the District's Lead-Hazard Prevention and Elimination Act ("the Act")</p>	<p>Under the Act, residential rental property owners and managers have certain duties that they owe both current and prospective new tenants of housing built prior to 1978. These include owner/manager responsibilities pertaining to (1) maintaining paint in good condition, (2) adhering to the District's lead disclosure requirements and those related to the distribution of the District's Tenant Rights form, (3) complying with the District's lead-related rental unit turnover and tenant relocation requirements, and (4) complying with requirements related to owners/managers seeking access to homes to conduct lead-related activities. In FY 17, DOEE will engage in committed partnerships with sister agencies that include the Office of the Tenant Advocate, the Department of Consumer and Regulatory Affairs, and the DC Housing Authority, and with community partners that include the Apartment and Office Building Association and the Greater Capital Area Association of REALTORS®. To support this initiative and enhance the prospects for its ultimate success, DOEE will also develop partnerships with tenant organizations and legal aid providers, among other community groups and non-profits.</p>	50-74%	<p>DOEE developed partnerships with sister agencies, clinical practices, legal aid providers, and community groups, including awarding grants to the Central American Resource Center and Latino Economic Development Center for outreach to tenants on lead poisoning prevention. Staff also led six property management compliance workshops for 74 property owners/managers, and participated in the District's Form-A-</p>	<p>This is part of a two-year initiative.</p>

			Palooza to update DOEE's Lead Disclosure Form.	
Implement Integrated Pest Management (IPM) program and new pesticides database.	In FY 17, DOEE will implement a mandatory IPM program aimed at preventing possible accidental exposure of pesticides to children at daycare facilities and schools. A District-wide outreach effort will be conducted to inform the public about the District's revised pesticides regulations. Additionally, DOEE will employ the new pesticides database to track pesticide usage data, pesticide product registrations, and information on the certification and training of pesticide operators and applicators in the District.	75-99%	DOEE has implemented the mandatory IPM program. IPM Plans are being transmitted to DOEE, and regulated entities not in compliance have been issued NOV's. Training and education has been provided in all Wards and at various venues upon request. DOEE assisted DGS with creating an IPM Plan for public facilities with children. USAPlants database is operational to record and verify product registrations, and applicator certification and training. Pesticide usage information is being entered into the database by applicators.	DOEE must coordinate with DGS to identify how the IPM Plan will be implemented in the Schools and on District owned properties.

**Natural Resources Services (7 Strategic initiatives)**

Conduct a floodplain study of Oxon Run	DOEE has initiated multi-jurisdictional coordination between the District and Prince George's County, which resulted in an agreement to restore Oxon Run, a tributary of the Potomac River. In FY 17, DOEE will work with the US Army Corps of Engineers to complete a floodplain study along Oxon Run that will provide comprehensive flood modeling and mapping in support of the restoration project. Oxon Run will be the largest stream restoration undertaken by the District and will result in numerous environmental benefits, including potential flood mitigation for existing properties located within a high-risk flood zone.	75-99%	Preliminary floodplain modeling and mapping was completed for Oxon Run in coordination with the US Army Corps of Engineers. DOEE will review the study, provide feedback to the Corps, and the study will be finalized early in 2018.	After recognizing the vulnerability of Watts Branch to flooding, which came to light in an audit of the District's floodplain program by FEMA, that floodplain was prioritized.
Coordinate and track Canopy 3,000 tree planting and initiate the Urban Forestry Advisory Committee	In FY 16, Mayor Bowser kicked off Canopy 3,000, an initiative to plant 3,000 more trees, increasing the District's annual planting goal to 15,000 trees. In FY 17, DOEE will work with its grantees and coordinate with other local and federal agencies to achieve this goal. In FY17, DOEE and DDOT will also launch the Urban Forestry Advisory Committee, which will facilitate coordination and communication across the District on tree canopy policy, research, and best practices to work toward achieving 40 percent tree canopy by 2032.	Complete	The Canopy 3000 Initiative met and exceeded its FY17 tree goal by planting 2,200 trees. The goal was to plant 1,950 trees.	

Complete the design and permitting of the Spring Valley stream and park restoration project	In FY 16, the Council of the District of Columbia tasked DOEE with contracting and oversight of the design, permitting, and construction of the Spring Valley stream and park restoration. In FY 17, DOEE will oversee the design and permitting of the project in coordination with the Department of General Services and the Department of Parks and Recreation.	25-49%	DOEE has reviewed design options and is moving forward with the preferred plan.	This is part of a two year initiative.
Conduct a District-wide Microbial Source Tracking study to identify sources of bacteria in District waters	In FY 17, DOEE will begin a District-wide Microbial Source Tracking Study. Ambient monitoring and other sampling and analysis programs have detected elevated levels of bacteria District Waters, including E. coli. This study will determine whether the bacteria concentrations detected in District Waters are of human origin or naturally occurring. In FY17, DOEE will compile background literature and historical data and hire a contractor to draft the study work plan and begin to implement the initial phases.	0-24%	DOEE hired a fellow who is working on the project. In FY18, DOEE will submit a procurement to hire a contractor to complete the work.	This is part of a two year initiative.
Implement the Stormwater Retention Credit Purchase Agreement Program	The Stormwater Retention Credit (SRC) trading program is the first of its kind in the nation and allows properties that voluntarily install green infrastructure to generate and sell SRCs in an open market. In FY 16, DOEE awarded a grant to a nonprofit organization that will assist with the administration of an SRC Purchase Agreement Program to jumpstart the SRC market and leverage greater private investment in green infrastructure. In FY 17, DOEE and its grantee will implement this program, which gives property owners and others who voluntarily install runoff-reducing green infrastructure the option to sell SRCs from these projects to the District.	Complete	The enhanced SRC purchase agreement program was finalized in Q4 and will officially launch October 18, 2017 to coincide with the 45th anniversary of the Clean Water Act.	
Implement a meadow restoration program in partnership with sister agencies	. In FY 17, DOEE will work with the Department of Public Works, the Department of Parks and Recreation, and the Department of General Services to identify green spaces in the District that are suitable to be converted from mowed areas to meadow habitats. DOEE will prepare these sites for planting by using chemical free methods. DOEE will then plant native seed mixes most suited to the District.	25-49%	DOEE is continuing to work with sister agencies to obtain buy-in to use their green spaces. DOEE is working to establish contracting for work to begin in FY18.	This initiative is dependent on obtaining buy-in from sister agencies for the use of their green spaces. This is an ongoing process that will be continued in FY18.
Restore boating access to Fletcher's Cove	In FY 17, DOEE will work the National Park Service, Guest Services, Inc., and the Friends of Fletcher's Cove to dredge Fletcher's Cove in an effort to restore non-motorized boating access to the Potomac River. DOEE will use a combination of federal aid and private funding to pay for the removal of decades of sediment deposits.	25-49%	DOEE is in the process of procuring a contractor to complete this initiative and is currently working with OCP to review proposals.	This initiative was transferred from one administration in DOEE to another. There were significant challenges that have been worked through and progress has been made.

Sustainability (6 Strategic initiatives)				
Enhancing the Green Economy	In FY 17, DOEE will take steps to improve the green economy by enhancing the District's Green Zone Environmental Program (GZEP), which incorporates a job training solar installation program for 18-24 year olds. DOEE will also support this effort by hiring the second cohort of Green Fellows—highly competitive paid opportunities for graduate students attending DC-based higher education institutions. In FY 17, DOEE will hire 5 new Green Fellows, as well as a Green Doctoral Fellow who will analyze the District's Low Income Energy Assistance Program (LIHEAP). In addition, DOEE will establish a pilot to train young adults to inspect and maintain green infrastructure. Finally, DOEE will help implement the Renewable Portfolio Standard Amendment Act of 2016, which provides the District with the ability to create approximately 100 green jobs in the first year.	Complete	The second RiverCorps cohort started in Q4 and the program made improvements in order to train more participants. GZEP closed out with over 200 MBSYEP participants and 47 summer staff. DOEE extended internships to about 20 GZEP staff in Q4 to work throughout the agency. Solar Works DC graduated 17 trainees (three obtained employment within the industry), and kicked off the next cohort with 25 trainees. 20 low-income homes received solar installs. DOEE enhanced its Green Fellows program to provide a meaningful experience to graduate students.	
Redesign and launch sustainability partnerships with strategic District sectors to support the Sustainable DC Plan	Based on input from former participants and best practices from around the country, DOEE will redesign partnerships in FY 17 with at least three of the following sectors in the District: private sector businesses and non-profit organizations, universities, embassies, and health care providers. Partnerships will build capacity in each sector through trainings, research, connecting participants to financial incentives, and sharing best practices in sustainability. This initiative will support the District's sustainability plan, Sustainable DC, and cover topics such as energy and water consumption reduction, sustainable materials management, stormwater management, sustainable procurement, and sustainable landscaping.	Complete	DOEE hosted a quarterly meeting with university pledge participants to discuss indicators and research projects. Pledge resigning will take place in FY18. The healthcare sector partnership will focus on reducing sugary drinks in hospitals, and a climate event for embassies is planned at the French Embassy in FY18.	
Launch paint and electronics product stewardship programs	In FY 17, DOEE will implement two key Extended Producer Responsibility (EPR) programs created to insure product stewardship. The Paint Stewardship Program, managed in partnership with PaintCare, provides drop-off sites for District residents to bring excess paint for reuse or proper disposal. The second program, eCycle DC, is the District's electronics stewardship program, which will allow District residents to properly dispose of televisions, computers, and related	Complete	PaintCare held its largest drop off event yet, in July, with another scheduled in early FY18. DOEE continued coordinating closely with DPW to align messaging	

	<p>equipment. DOEE will monitor program participation and the level of service provided to ensure a high quality program that meets statutory requirements. DOEE will also help increase the effectiveness of the District's sustainable purchasing program by proposing expanded product categories and by assisting the Office of Contracting and Procurement in delivering trainings to staff with purchasing authority throughout city government.</p>		<p>around electronics disposal and the Mayor's recycling list, including holding stakeholder meetings, webinars, and development of the new Zero Waste DC website.</p>	
<p>Build staff capacity in diversity and equity to better serve District residents</p>	<p>In order to better serve all residents of the District of Columbia, DOEE will design and deliver staff trainings and conversations on human diversity and social equity. These trainings will build off an existing pilot for a small number of staff, but will be expanded in FY 17. Increasing staff awareness in these two critical areas can, in turn, improve the reach and effectiveness of DOEE programming, improve community relationships, and build trust with constituents.</p>	<p>Complete</p>	<p>DOEE connected with DDOT to facilitate a discussion about institutional racism. Beyond that, 2 USA team members are currently enrolled in the USDN level 3 equity training and working to advance projects and frameworks that could guide government organizations through structural shifts toward a more equitable operation. More research is being conducted to identify opportunities to address equity issues from a broader perspective to include a definition of equity.</p>	
<p>Research and test new, innovative policies and programs within green building, energy efficiency, and renewable energy in order to advance the commitment for sustainable development for all projects and provide greener, healthier and more efficient buildings for businesses and residents</p>	<p>In FY 17, DOEE will research and test new techniques in green building through the innovative Green Building Fund Grant Program, collaborate with other leading cities to advance best practices, and run innovative pilot programs. Research and programs anticipated for FY 17 will include creation of green finance mechanisms, such as a green bank, technical support for microgrid deployments, deep sustainability planning for the District's large scale development projects, and the creation of historic building sustainability guidelines. DOEE will also work with private developers to incorporate higher commitments to sustainability, push for construction of net zero energy and Living Building Challenge projects, and work to deploy district- and neighborhood-level green building strategies. DOEE will continue work to create greener affordable housing with sister agencies DHCD and DCHA, and will finalize the plan for, and begin implementation of, a first-ever green building program for single family homes in the District. Finally, DOEE staff will work with DCRA to update the new DC Energy Conservation and Green Construction Codes, including conducting broad community outreach.</p>	<p>Complete</p>	<p>All 3 of the GBF Innovation grants were completed on time and on budget by the end of the fiscal year. The results include regulatory recommendations and technical assistance for microgrid implementation, resilience cost-benefit analysis for Buzzard Point, case studies, and residential sustainability guidelines. All projects build innovation and implementation of green building strategies.</p>	

<p>Advance climate change mitigation and adaptation</p>	<p>In FY 17, DOEE will begin implementation of the citywide climate adaptation plan, Climate Ready DC, which assesses the vulnerability of and provides strategy and policy recommendations for the District to adapt to climate-related threats. DOEE will coordinate with other District agencies and the newly formed 100 Resilient Cities effort to explore new programs to advance resilience in the city. DOEE will also work with other agencies to incorporate resilience strategies into relevant District policies and plans, including the District's Comprehensive Plan, construction codes, and capital improvement plans. In order to advance climate change mitigation, DOEE will work on cutting edge energy efficiency, renewable and district energy, and microgrid solutions, update the District's greenhouse gas emissions inventory, and learn about and share best practices with international organizations.</p>	<p>Complete</p>	<p>DOEE continues to implement Climate Ready DC by integrating the actions into related plans including the Comprehensive Plan, the Hazard Mitigation Plan and building codes. DOEE completed two grant projects advancing key recommendations: a flood resilience plan for Buzzard Point and a microgrid technical assistance. DOEE also awarded a grant to develop a resilience audit tool for affordable housing. DOEE's work on climate adaption was recognized as a global leader as the District was selected as a finalist for the C40 awards.</p>
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