

## Sustainable DC 2.0 2022 Detailed Progress Report



ACTION TEXT	TIME FRAME	LEAD AGENCY	PARTNER AGENCIES	PROGRESS	STATUS DESCRIPTION
<b>GOVERNANCE</b>					
<b>Goal 1: Expand District Government leadership to implement the Sustainable DC 2.0 Plan.</b>					
<b>Target 1: Implement 100% of the Sustainable DC actions by 2032.</b>					
GV1.1: Dedicate District Government staff and funding to implement the Sustainable DC 2.0 Plan, track progress, and make results publicly available.	Ongoing	DOEE, OP		4	In 2021, the Sustainable DC team included one Department of Energy and Environment (DOEE) full time team member and an additional full time equivalent team member working towards implementation, communications, progress tracking, and making results publicly available. Additionally, the Office of Planning (OP) continues to work with DOEE and agency partners to move the District toward achieving the targets set forth in Sustainable DC. OP coordinates with DOEE to encourage development projects to support resilient outcomes in the built environment and provides regulatory review to ensure that proposed stormwater, wetland, and floodplain regulations are consistent with the zoning regulations.
GV1.2: Strengthen the existing process to collect, analyze, and report data to make progress towards goals and targets by prescribed dates.	Ongoing	DOEE, OP		4	The Department of Energy and Environment and the Office of Planning released the seventh annual Sustainable DC Progress Report, continuing every year since the plan was released. The robust process includes a progress kickoff meeting of District Government agencies involved in plan implementation, each agency completing an online spreadsheet of their updates, and an intensive interagency process to rate each of the 167 plan actions on its level of completion.
GV1.3: Identify existing laws, regulations, and policies that conflict with sustainability goals and areas where new authority is required.	Ongoing	DOEE, OP		3	The Department of Energy and Environment and the Office of Planning (OP) completed an analysis of which Sustainable DC actions would require legislation for implementation. Additionally, OP analyzed amendments to the District's Comprehensive Plan with multiple lenses including sustainability and racial equity. These amendments guide future growth, development and addresses sustainability, resilience, housing affordability, and racial equity. The amendments were approved by DC Council in 2021.
GV1.4: Expand sector-based sustainability partnerships and pledges to promote adoption of sustainable practices.	Ongoing	DOEE, OP		2	The College and University Sustainability Pledge members reaffirmed the value of continuing quarterly meetings to exchange best practices and collaborate on sustainability initiatives. The Department of Energy and Environment connected with the U.S. Department of State on opportunities for the Greening Diplomacy Initiative and established a framework for supporting businesses on the path to sustainability, outside of a formal business pledge program.

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GV1.5: Increase federal and regional collaboration by partnering with the federal government and regional council of governments.	Ongoing	DOEE, OP	EOM, DMPED, DCRA, DDOT	3	The Homeland Security and Emergency Management Agency, Office of Planning (OP), the Department of Parks and Recreation, and District Department of Energy and Environment (DOEE) secured Building Resilient Infrastructure and Communities funding from the Federal Emergency Management Agency for several projects intended to bolster the District's resilience to climate change. Additionally, the District Department of Transportation, OP, and DOEE partner with the Metropolitan Washington Council of Governments on the Transportation Planning Board, Climate Energy and Environment Policy Committee, the Built Environment and Energy Advisory Committee, among others.
GV1.6: Designate a sustainability lead in every District Government agency to coordinate efforts across government.	Short term	DOEE, OP		2	The Department of Energy and Environment and the Office of Planning maintain a contact list of sustainability leads within District agencies.
GV1.7: Develop a citywide strategy for greening internal District Government operations to save money and improve environmental performance.	Short term	DOEE, OP	DGS, DPR, DDOT, DPW, OCP, OCA	1	<p>In 2021, the Zero Waste Omnibus Amendment Act became law, which will maximize the District's purchase of Environmentally Preferable Products or Services. Additionally, the Green Food Purchasing Amendment Act was enacted, this act requires tracking and establishing best practices for reducing greenhouse gas emissions related to District food and beverage purchases. The Department of Energy and Environment (DOEE) and the Office of Contracting and Procurement (OCP) are in early stages of implementing the laws. Of the 3000+ vehicles in the District's fleet, approximately 1,077 have transitioned from regular diesel or gasoline to 100 percent biodiesel. B100 biodiesel (100% biodiesel) is an EPA -registered fuel and fuel additive designed as a blend stock for use in blending with petroleum diesel. Additionally, OCP instituted electronic signatures, decreased the number of copiers/printers to promote less paper usage, saving money on paper, equipment and improving environmental performance.</p> <p>Lastly, the Office of Planning (OP) and the Department of Parks and Recreation (DPR) are collaborating on the design and implementation of a blue and green stormwater management infrastructure in Southwest DC. Another collaboration between DPR and OP is the Small Park and open space mitigation study, to assess small parks and triangles in the District and identify future capital improvement projects to enhance resilience in the District.</p>
GV1.8: Ensure that all <i>Sustainable DC 2.0 Plan</i> actions promote population health to address health disparities.	Short term	DC Health, OP	DOEE, DCPS	0	The Sustainable DC Team met with DC Health to discuss future improvements to Sustainable DC actions as they relate to the social determinants of health. Additionally, the Office of Planning's Congress Heights Small Area Plan identified life expectancy for residents when comparing by geography and a variety of metrics related to social determinants like income, employment, and education. This also included how improvements to the public realm, community facilities, and housing can improve life outcomes for the Congress Heights community, with a focus on Black residents, people with disabilities, older adults, and youth.

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<b>EQUITY</b>					
EQ1.1: Create an Equity Impact Committee to guide equity in the development and implementation of the <i>Sustainable DC 2.0 Plan</i> .	Short term	DOEE	DPR, DC Health, OHR, EOM	4	The Deputy Mayor for Operations and Infrastructure (DMOI) Equity Council, which was launched in March 2021, aims to promote learning and facilitate the advancement of equity opportunities for employees and constituents of DMOI agencies. During the monthly meetings, the DMOI cluster agency representatives engage in relevant discussions that increase their awareness and equip them with the tools and resources necessary for developing equity initiatives within their agency. Additionally, agency representatives share ideas pertaining to staff training, performance management, budgeting for racial equity, and community engagement. Building on the efforts of an earlier equity working group, the Department of Energy and Environment (DOEE) formalized an Equity Committee. The Committee led an agency-wide engagement process to inform development of DOEE's Equity Framework and Racial Equity Impact Assessment. The Office of Racial Equity also collaborated with 12 District agencies to pilot racial equity tools, complete departmental assessments of racial equity, and develop racial equity action plans.
EQ1.2: Develop an Equity Impact Assessment Tool to help the District immediately address racial inequities related to sustainability.	Short term	DOEE		4	Alongside its Equity Framework, the Department of Energy and Environment launched agency-wide racial equity tools, including a Racial Equity Impact Assessment (REIA), Team Readiness Assessment, and REIA Reflection Sheet. All agency branch and division managers will complete these documents for one of their projects in 2022.
EQ1.3: Provide equity-focused training for all District Government employees.	Medium term	DOEE, DCHR	OHR	2	The Office of Racial Equity launched a required training for all managers, titled “Advancing Racial Equity: The Role of Government.” Some agencies also conducted their own equity-focused training. For example, the Department of Energy and Environment (DOEE) introduced two required trainings for all staff: (1) Building the Context for Racial Equity in DC and (2) Introduction to Racial Equity Concepts and DOEE’s Racial Equity Impact Assessment, which built off earlier optional trainings and lunch and learn sessions. The Office of Planning hosted a “Racial Equity in Planning and Development” workshop. Community planners within the Capital Projects Division at the Department of Parks and Recreation joined the Government Alliance on Race and Equity, a source of technical resources on advancing racial equity.

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EQ1.4 Focus community engagement on communities that have been historically under-represented.	Medium term	DOEE	EOM	2	<p>Many District agency initiatives focused engagement efforts on communities that have been historically underrepresented in planning processes (including people who are Black, Indigenous, and People of Color [BIPOC], and people with limited English proficiency). For example, the Department of Parks and Recreation, as part of its Ready2Play Master Plan process, targeted outreach in Wards 7 and 8 and created a phone line to engage groups with limited virtual access. The Department of Small and Local Business Development revitalized the Aspire to Entrepreneurship program for returning citizens, conducted a Just Cannabusiness Salon series to engage BIPOC communities and build a more just medical cannabusiness industry, and facilitated access to no cost, no barrier loans for those shut out of accessing traditional capital. The Department of Energy and Environment established a Memorandum of Understanding with the Mayor's Office on Latino Affairs to better connect the District's Latino population to Solar for All, engaged with the Ward 7 Resilience Hub Community Committee to work towards developing a pilot resilience hub, held multiple outreach sessions to inform regulations addressing air quality environmental injustice and disparities, and participated in a Brentwood walkthrough led by residents and Empower DC in response to community air pollution concerns.</p> <p>In addition, the Food Policy Council continued engagement methods such as translated materials and office hours to enhance resident access. The Office of the State Superintendent of Education used an equity rubric that prioritizes schools serving vulnerable populations and those that have not previously had access to programmatic supports when screening applications for the Outdoor Learning Technical Assistance program. DC Public Schools considers the number of at-risk students enrolled in the school as part of its framework for prioritizing how schools are ranked in the Capital Improvement Plan. The District Department of Transportation Urban Forestry Division uses a data driven approach to allocate program resources to historically underrepresented communities. The Office of the Chief Technology Officer launched Tech Together DC to bridge the digital divide. The Comprehensive Plan update led by the Office of Planning recommends several racial equity lenses that the District will use to advance investments, policies, and programs that seek to improve the lives of residents who have been most marginalized by systemic racism and structural inequity. The Office of the State Superintendent of Education used an equity rubric that prioritizes schools serving vulnerable populations and those that have not previously had access to programmatic supports when screening applications for the Outdoor Learning Technical Assistance program.</p>

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<b>BUILT ENVIRONMENT</b>					
<b>Goal 1: Sustainably and equitably accommodate future population growth within the District.</b>					
<b>Target 1: By 2032, accommodate the District's projected population growth while maintaining quality and affordability for those who need it most.</b>					
BE1.1: Create and preserve energy- and water-efficient affordable housing (including low-income and workforce housing) that accommodates different family sizes.	Ongoing	DMPED	OP, DHCD, DCHFA, DCHA, DOEE	2	All Department of Housing and Community Development (DHCD) funded projects continued to enforce compliance of the Green Building Design and Construction standards. This includes Enterprises 2020 Green Communities Criteria. Additionally, projects funded through the 2021 Consolidated Request for Proposals (RFP) must include solar panels or qualify as Solar Ready Buildings. Additionally, DHCD recently updated their Qualified Allocation Plan (QAP), which make DC's green building threshold requirements the most stringent in the nation and include six times more funding than before. Next, the Office of Planning (OP) managed the District's Historic Homeowner Grants, which assist low- and moderate-income homeowners with the costs of repairing their historic homes. Lastly, in 2021 DOEE launched the Affordable Housing Retrofit Accelerator which will provide direct technical and financial assistance to multifamily affordable housing buildings so they can meet the compliance requirements of the nation's first Building Energy Performance Standards (BEPS).
BE1.2: Expand brownfield redevelopment incentives.	Medium term	DOEE	DMPED, DHCD	1	In 2021, the Department of Energy and Environment (DOEE) made progress on new regulations related to the Voluntary Cleanup Program (VCP) for Brownfield Sites. DOEE has sought to streamline the program to make it more attractive to parties with an interest in redeveloping Brownfield sites toward productive use. Changes proposed in the regulations include shortening the maximum review periods for VCP applications and regulatory review of project documents, as well as combining the Voluntary Remedial Action Program (VRAP) under the Underground Storage Tank Branch with the VCP program to eliminate redundancy and confusion regarding requirements for site remediation.

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<b>Goal 2: Strengthen existing neighborhoods to be vibrant and walkable while maintaining their historic character.</b>					
<b>Target 2: By 2032, provide essential services within a quarter-mile walk, and a variety of services and amenities within a half-mile walk of all residents.</b>					
BE2.1: Enhance programs to support businesses to open and operate in neighborhood commercial corridors, focusing on vacant and underused spaces.	Short term	DCRA	OP, DMPED, EOM, DHCD, DSLBD	2	The Office of Planning (OP) and Deputy Mayor for Planning and Economic Development (DMPED) launched the Streets for People Grants to Boost Economic Recovery in central Washington to provide funding for creative and innovative public space activations downtown. The COVID-19 pandemic provided an opportunity to reflect on the importance of public spaces and to reimagine new and creative ways to leverage public spaces to revitalize central Washington and facilitate economic recovery. Additionally, the Department of Small & Local Business Development (DSLBD) ran a very popular Robust Retail Grant in 2021, to support retail businesses in the District, as well as Dream Grants to fund businesses located in Wards 7 & 8. DSLBD also promoted and supported the Golden Triangle BID's Grow Golden program to bring businesses to vacant spaces in the Golden Triangle with free or discounted lease space. These pop ups included several minority owned businesses.
BE2.2: Encourage the development of affordable live-work units.	Medium term	DHCD	OP, DMPED	1	No new progress.
BE2.3: Locate affordable, high-density housing close to commercial zones and high capacity transit.	Long term	DHCD	OP, DMPED, DCHFA	2	The Office of Planning (OP) released the Rock Creek West Roadmap in collaboration with the Deputy Mayor for Planning and Economic Development (DMPED) and Department of Housing and Community Development (DHCD). This is a framework to identify opportunities to add 2,000 affordable housing units in high opportunity areas west of Rock Creek Park. The Roadmap outlines how OP's planning efforts along Connecticut and Wisconsin Avenues, as well as the District's housing tools, programs, and investments, can help to meet and exceed the Planning Area's housing goals. Additionally, OP's Comprehensive Plan was adopted by DC Council - the Future Land Use Map (FLUM) increases housing density along high-capacity transit corridors. DMPED, in collaboration with OP and DHCD, released the Housing in Downtown Request for Information (HID RFI) to obtain input from current and prospective property owners on the design of and approach to a potential new program to incentivize conversion of commercial properties to residential use in central Washington.
BE2.4: Expand the Great Streets program to five streets east of the Anacostia River to strengthen walkable, accessible, and vibrant commercial corridors.	Long term	DMPED DHCD	DSLBD, OP, DDOT	2	No new progress.

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<b>Goal 3: Improve the performance of existing buildings by reducing energy and water use, advancing health, and increasing livability.</b>					
<b>Target 3: By 2032, audit 100% of existing commercial and multi-family buildings and implement improvements to achieve energy reduction goals.</b>					
BE3.1: Rehabilitate public housing to be energy- and water-efficient, equipped to meet net-zero energy standards, and to provide a healthy environment for occupants.	Long term	DCHA	DOEE, DMPED	2	The District received more than \$5 million in stimulus funding that the DC Housing Authority (DCHA) will deploy to help the portfolio of DCHA properties comply with Building Energy Performance Standards (BEPS) and move toward healthier, more energy-efficient and sustainable accommodations for public housing residents.
BE3.2: Develop a green building workforce by training built environment professionals and building operations staff in the latest green skills.	Short term	DOES	DGS, DOEE, DCPS, UDC	2	Solar Works DC, the District’s low-income single-family solar photovoltaic installation and job training program, received additional funding from the American Rescue Plan Act of 2021 to train more District residents and enhance programing. This program is housed within DC’s Infrastructure Academy, which coordinates, trains, screens and recruits residents to fulfill the needs of the infrastructure industry and infrastructure jobs with leading companies in high-demand fields. Additionally, the Department of General Services provided Building Retuning Training to 15 Boiler Plant Operators (BPO). The training allows BPOs to identify savings and efficiency opportunities at their buildings. Lastly, the Department of Energy and Environment provided funding to maintain green stormwater infrastructure throughout the District, in an effort to create “sustainable employment” opportunities for residents, including returning citizens.
BE3.3: Build public-private partnerships to expand best practices for building operations and maintenance.	Short term	DGS	DOEE, OP3, UDC, DCPS	1	The Department of General Services continued development of the Strategic Energy Management Plan (SEMP), anticipated to be released in 2022 and periodically updated thereafter. The SEMP will guide the city's efforts to reduce energy use at public buildings, including providing a site selection framework for the implementation of the Energy Savings Agreement Pilot.
BE3.4 Retrofit and maintain all buildings owned by the District Government to reduce energy use by 50% and maximize the installation of renewable energy technology.	Long term	DGS	DOEE	2	The Department of General Services (DGS) continued development of the Strategic Energy Management Plan (SEMP), anticipated to be released in 2022 and periodically updated thereafter. The SEMP will guide the city's efforts to reduce energy use at public buildings, including providing a site selection framework for the implementation of the Energy Savings Agreement Pilot. DGS also delivered two net-zero energy (NZE) schools (Banneker Academic High School and West/John Lewis Elementary School) and is targeting the design and delivery of additional NZE schools.
BE3.5: Complete energy assessments of all District homes and buildings.	Medium term	DOEE	DC SEU	2	Energy audits and assessments continued to be completed through the existing Department of Energy and Environment (DOEE) and DC Sustainable Energy Utility (DCSEU) programs for District homes (including low-income) and buildings (including single family and multifamily).

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<b>Goal 4: Ensure the highest standards of building performance and operation for all new construction, including net-zero energy use, while advancing health and overall livability.</b>					
<b>Target 4: By 2032, meet net-zero energy use standards with 100% of new construction projects and develop policies or regulation to improve the sustainability, livability, and resilience of new development.</b>					
BE4.1: Require higher levels of energy efficiency, renewable energy requirements, net zero standards for new construction, and broader sustainability metrics for public projects.	Long term	DOEE	DGS, DCRA, DCPS, OCA	2	The Department of General Services (DGS) has delivered two net-zero energy (NZE) schools and is targeting the design and delivery of additional NZE schools. The District continues to enhance school construction, design, and maintenance by applying NZE building design principles. An NZE building is a highly energy-efficient building that generates enough onsite renewable energy to offset its grid-based energy use. Scaling NZE design principles will create healthy learning environments for students, while helping the District fulfill its carbon neutral and climate resiliency goals. Department of Housing and Community Development (DHCD) adopted a new Qualified Allocation Plan and subsequent Request for Applications that establishes a minimum requirement of near net-zero energy for larger affordable housing projects to be eligible to apply for public funding. This significant increase in energy efficiency is meant to future-proof affordable housing projects for compliance with future Building Energy Performance Standards (BEPS) cycles.
BE4.2: Provide incentives for new building projects to achieve net-zero energy.	Medium term	DOEE, DCRA, OTR	EOM, DMPED	3	The Department of Energy and Environment's Building Innovation Design Assistance grant provided four awards in 2021 to support net-zero energy design as well as life-cycle assessments to reduce embodied carbon. Additionally in 2021, the District released a Consolidated Request for Proposals (RFP) for Affordable Housing Projects, making available \$400 million from the Housing Production Trust Fund (HPTF). The RFP added as part of the Compliance Criteria that projects target net-zero energy or near net-zero ready design.
BE4.3: Incorporate sustainability best practices into neighborhood planning.	Ongoing	OP	DOEE, DMPED	2	The Office of Planning (OP) collaborated closely with the communities of Congress Heights, Pennsylvania Ave SE, and Chevy Chase on the development of three small area plans. With these Small Area Plans, OP worked with residents and community stakeholders on an equitable development strategy, including provisions for open space and public facilities.
BE4.4: Continuously adopt the latest green construction codes.	Ongoing	DCRA	DOEE, DGS, EOM, DCPS	2	The District released the first Resilient Design Guidelines, which outline a methodology to ensure new buildings are built to be climate ready to protect residents, visitors, and workers during heatwaves, tropical storms, power outages, and floods. Additionally, development of the 2023 DC Energy Conservation and Green Construction Codes is underway.
BE4.5: By 2026, update the building energy codes to require that all new buildings achieve net-zero energy use or better.	Medium term	DCRA	DOEE	1	The District government has begun the process of developing the next round of building codes with the goal of adoption in 2023. This will provide one additional step toward a path of net-zero energy by 2026.

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<b>CLIMATE</b>					
<b>Goal 1: Reduce greenhouse gas emissions from all local sources to put us on track to eliminate emissions by 2050.</b>					
<b>Target 1: By 2032, reduce greenhouse gas emissions by 50%.</b>					
CL1.1: Build awareness and provide resources to empower people and organizations to take actions to reduce their share of greenhouse gas emissions.	Ongoing	DOEE	OCTO	2	The Lab @ DC established the Front Door platform at <a href="https://www.frontdoor.dc.gov/">https://www.frontdoor.dc.gov/</a> , where current and future homeowners can find relevant programs, including programs to help them reduce environmental impact. The list of residential actions to "go green," including actions to reduce emissions, was updated on the Sustainable DC website and is available in English, Amharic, Chinese, French, Korean, Spanish and Vietnamese. Additionally, the Department of Energy and Environment provides links to many renewable energy and energy efficiency programs on its website, including a page dedicated to utility assistance. The #Here2HelpDC website at <a href="https://here2helpdc.dc.gov/">https://here2helpdc.dc.gov/</a> also provides information on managing energy usage.
CL1.2: Report District emissions annually to track the reductions that can be attributed to specific initiatives.	Ongoing	DOEE	DGS, DPW, DDOT, DCRA, OPC	4	The Department of Energy and Environment (DOEE) continues to report the District's greenhouse gas emissions to CDP (formerly the Carbon Disclosure Project) on an annual basis, and the inventories are available on DOEE's website. This is institutionalized into DOEE's annual work.
CL1.3: By 2020, develop a plan to achieve carbon neutrality by 2050.	Short term	DOEE	DDOT, DPW, DGS	3	The Department of Energy and Environment (DOEE) drafted Carbon Free DC, the District's strategy to be carbon neutral by 2050. The forthcoming strategy was informed by in-depth conversations with residents about the nexus between equity and climate action in order to center residents' lived experiences in the District's approach to achieving carbon neutrality.
CL1.4: Measure and eliminate methane gas leaks into the atmosphere throughout the District.	Long term	DOEE	OPC	2	The Department of Energy and Environment (DOEE) released a 2021 Fugitive Methane Emission Survey of the District of Columbia. This is a preliminary survey of where fugitive methane emissions may be occurring, and, more importantly, to identify where such emissions may become a concern from a climate change mitigation perspective, due to their potential for high-volume emissions. This study, filed with the DC Public Service Commission, initiates the first part of an overall study by DOEE to understand how best to reduce methane emissions associated with the use of fossil gas in the District and how such reductions may occur cost-effectively.

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<b>Goal 2: Advance physical adaptation and human preparedness to increase the District’s resilience to climate change.</b>					
<b>Target 2: By 2032, require 100% of new buildings, major infrastructure, and neighborhood plans to consider climate risks and identify adaptation solutions.</b>					
CL2.1: Evaluate and reduce the vulnerability of the District’s transportation, energy, water, and telecommunications infrastructure to the anticipated impacts of climate change.	Medium term	DOEE	HSEMA, OP, DGS, DDOT, DC Water, OCTO, UCC, ORM, EOM	1	The District secured funding from the Federal Emergency Management Agency (FEMA) to support resilience projects. The projects include a microgrid pilot on the St. Elizabeth Campus that will allow the new hospital to maintain power during a large grid outage, and building and planning for resilience parks in the Southwest DC neighborhood and other locations across the District. The Department of Parks and Recreation and DC Public Schools used the Resilient Design Guidelines released earlier to assess climate risks and preparedness opportunities at Ketcham Recreation Center and Smothers Elementary School, which are both slated for modernization. DC Water completed floodproofing at its Main Pump station and finished one section of the Potomac River floodwall at the Blue Plains Advanced Wastewater Treatment Plant. The DC Flood Task Force initiated a 12-month action plan to floodproof homes and facilities, address sewer line backups, plan flood mitigation infrastructure, and conduct flood emergency planning.
CL2.2: Improve emergency and community preparedness to respond to climate change events including extreme heat, storms, and flooding, with a focus on the most at-risk populations.	Medium term	HSEMA	MPD, FEMS, DOEE, OP, DCHA, DPW, DC Water	2	The District has invested \$4.2 million over three years to develop an integrated flood model that considers coastal, riverine, and inland flooding. The model will allow the District to use a data-driven approach to identify where flood management investments are needed most. The virtual Flood and Water Damage Forums launched in December 2020 provided residents with vital, actionable information on how to prepare for floods and how to protect their properties and recover from water damage. Mayor Bowser hosted the inaugural “Flood Awareness Week” in June 2021 where the Homeland Security and Emergency Management Agency and the Department of Energy and Environment held daily events attended by approximately 250 members of the public and 100 technical stakeholders. Residents can receive real-time notifications, including on severe weather, through Alert DC.
CL2.3: Require all new development projects to assess climate risks and incorporate climate adaptation solutions.	Medium term	OP	DOEE	1	The DC Flood Task Force is working to develop an action plan that identifies equitable ways to reduce the risk of water damage from flooding in the District. As part of this effort, District government agencies will provide consultation on mitigation and adaptation for infrastructure projects, efforts, and future policies that come out of the Task Force. The District also uses the Green Area Ratio (GAR) as a zoning regulation that sets standards for landscape and site design to help reduce stormwater runoff, improve air quality, and keep the city cooler. In addition, the Department of Energy and Environment is considering revisions to existing Flood Hazard Rules to ensure the District's buildings and residents are more resilient to floods in the face of a changing climate that will increase the city's flood risk.

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CL2.4: Fully implement and regularly update the <i>Climate Ready DC Plan</i> , the District's plan to adapt to the changing climate.	Ongoing	DOEE		2	The Department of Energy and Environment published the second annual progress report for Climate Ready DC.
<b>ECONOMY</b>					
<b>Goal 1: Grow and diversify the District's economy, focusing on sustainability, climate, and resilience industries.</b>					
<b>Target 1: By 2032 develop two times as many small District-based businesses.</b>					
EC1.1: Provide training, financial assistance, and marketing for jobs in sustainability business start-ups, targeting strategic populations.	Medium term	DSLBD, DOEE	DMPED, DHCD, DMGEO, DCRA, UDC	2	The Department of Small and Local Business Development (DSLBD) supported awards of over \$1.3 million in loans to over 80 microbusinesses predominantly located in underserved areas or operated by owners of underserved communities, through its District Capitalized and DC Kiva Hub initiatives. DSLBD supported 33 returning citizens through the Aspire to Entrepreneurship program, with each receiving between \$2,000 and \$10,000 (totaling \$200,000), including many green businesses. DSLBD also expanded the Certified Business Enterprise (CBE) Green program, supporting sustainable CBEs through trainings on invoicing, bookkeeping, and more. DSLBD promoted sustainability businesses in the District with an extensive social media campaign around diversity in green business and the Nourish DC program through technical assistance and information sessions.
EC1.2: Coordinate with anchor institutions such as hospitals and universities to encourage purchasing from local sustainability-related businesses.	Ongoing	DOEE	DSLBD, OCP	1	The Office of Contracting and Procurement (OCP) manages and assists with vendor relations and procurement activities that provide greater opportunities to the local and Certified Business Enterprise business community. OCP connects contractors and subcontractors to capable resources and support available through sister agencies. The Department of Small and Local Business Development launched the Food Waste Innovation Grants, which engaged many anchor institutions to think about their purchasing of products and procurement related to waste disposal services.
EC1.3: Work with private partners to support new incubators and "maker spaces" with a focus on communities most in need.	Medium term	DSLBD, DMPED	DCPL, DMGEO, OP	1	In September 2021, the Department of Small and Local Business Development (DSLBD), DC Food Policy Council, Latino Economic Development Center, and DC Public Library (DCPL) collaborated to host a Commercial Kitchen Matchmaking Event connecting food entrepreneurs with available commercial kitchen spaces. DSLBD supports the Golden Triangle Business Improvement District's Grow Golden program, a competitive program for small businesses to negotiate free or reduced rent for retail locations in Downtown DC, to address the increased vacancies in the area. The Labs at DCPL are located at the Martin Luther King Jr. Memorial Library and allow residents access to equipment such as 3-D printers and sewing machines, while offering resources for makers.

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EC1.4: Increase the number of businesses that offer sustainable products and services by connecting them to third party certification programs.	Short term	DOEE	DSLBD, DMPED	1	The Department of Small and Local Business Development now connects businesses directly to the Department of Energy and Environment’s (DOEE) green business programs through their standard business technical assistance sign up process. And DOEE provides businesses with information on third party certification programs.
EC1.5: Provide training and connect District businesses to financial resources to operate more sustainably.	Short term	DOEE	DSLBD, DMPED	3	The Deputy Mayor for Planning and Economic Development distributed more than \$30 million in grants through the DC Small Business Recovery Microgrants Program and \$100 million to businesses and workers in the hospitality, entertainment, and retail sectors. These grants provided relief to businesses and covered employee wages, inventory, rent, utilities, and other needs. In addition, the Department of Small and Local Business Development (DSLBD) and the Department of Energy and Environment (DOEE) collaborated to provide training and outreach, including a five-part green business and social entrepreneurship training, a commercial land access panel for urban farmers, and outreach about rebate programs for businesses impacted by the gas leaf blower ban. DSLBD opened the Food Waste Innovation Grant to support businesses diverting food from the waste stream through recovery, composting, and other mechanisms. DOEE is using a DSLBD platform to offer individual businesses with sustainability guidance. DOEE also offered several webinars for GreenWrench and COVID-related issues such as how to re-enter vacant spaces safely while reducing mold and pests.
EC1.6: Launch the DC Green Bank by 2020.	Short term	DOEE		4	Since being launched in 2020, the DC Green Bank has deployed more than \$5 million in loans to meet the District's sustainability goals.

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<b>Goal 2: Train District residents to be competitive for livable wage jobs in growing industries such as sustainability, the environment, and resilience.</b>					
<b>Target 2: By 2032, reduce citywide unemployment in severely unemployed populations by 50%.</b>					
EC2.1: Partner with the Workforce Investment Council to identify the fastest growing sustainability fields for future job training programs.	Short term	DOEE, DOES	WIC, DMPED, DMGEO, DC SEU	0	No new progress.
EC2.2: Help connect underemployed residents with jobs in sustainability with opportunities in growing fields.	Medium term	DOES, DHS	DOEE, DMPED	2	The Solar Works DC program, which prepares residents to enter careers in the solar and related industries by reducing energy costs for income-qualified District homeowners through installation of solar panel systems, received additional funding from the American Rescue Plan Act of 2021 to train more District residents and enhance programming. Additionally, the Kingman Island Rangers Program prepared out-of-work adults for entry-level jobs in the green sector while helping to beautify Kingman and Heritage Islands.
EC2.3: Create new paid job opportunities in sustainability fields for young adults and high school students, focusing on populations with highest unemployment rates.	Medium term	DOEE	DOES, DCPS, OSSE	1	In addition to Solar Works DC and the Kingman Island Rangers Program, the District continued providing additional paid job opportunities for young adults and high school students interested in sustainability fields. The Department of Energy and Environment (DOEE) continued to partner with the Department of Employment Services Marion Barry Summer Youth Employment Program to manage the Green Zone Environmental Program, which introduces participants ages 14–24 to energy, environmental, and sustainability challenges and opportunities that impact the District. Additionally, DOEE’s River Corps Training Program engaged District residents ages 18–24 through classroom education and field-based experiences to gain technical skills needed to install, inspect, and maintain green infrastructure, and learn critical skills to secure employment. DOEE offers several highly competitive, paid fellowships designed for graduate-level students currently enrolled in a Master’s degree study program through its Green Fellows program. DOEE also offers internships on a rolling-basis, as needed by agency divisions.
EC2.4: Track the economic impact of jobs in sustainability on the local economy.	Short term	DOEE, OP		1	No new progress.

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<b>EDUCATION</b>					
<b>Goal 1: Ensure that every student in the District graduates with the knowledge to protect and restore their local environment.</b>					
<b>Target 1: By 2032, teach 100% of children in the District about environmental and sustainability concepts.</b>					
ED1.1: Modernize all public school buildings, recreation centers, and libraries to reduce their environmental footprint and integrate sustainable and healthy practices into their operations.	Medium term	DGS, DCPL	DCPS, DPR, DOEE	2	<p>The Department of General Services (DGS) and District of Columbia Public Schools (DCPS) completed two school modernizations at John Lewis Elementary School and Banneker High School, becoming the first schools designed to achieve net-zero energy in the District. DCPS enrolled all 117 of its buildings into the WELL Health and Safety Rating for Facility Operation and Management, a third-party verified rating system focusing on operational policies, maintenance protocols, occupant engagement, and emergency plans. New DCPS modernizations such as Banneker, Lewis, Bard, and Raymond are pursuing the WELL Building Standard, the leading tool for advancing health and well-being in buildings globally. DCPS also continued hosting Leadership in Energy and Environmental Design (LEED) Health Promotion Workshops for all modernizations.</p> <p>The Department of Parks and Recreation (DPR) completed the modernization of recreation centers to reduce their environmental footprint and have sustainable operations at Lafayette-Pointer Recreation Center, Woody Ward Recreation Center, and Hardy Park. DPR began the design of the future Stead Recreation Center, which will be the first net-zero community recreation center in the city. In addition, DGS and DC Public Library completed the modernization of the Southwest Library, making it more climate resilient and greatly limiting its contribution of greenhouse gas emissions from building materials. Southwest Library achieved LEED Platinum certification.</p>
ED1.2: Implement a program to encourage all District schools to adopt healthy, green, and sustainable practices.	Long term	DOEE, OSSE	DCPS	2	<p>In Fiscal Year 2021, the Office of the State Superintendent of Education (OSSE) continued to pilot, and the District of Columbia Public Schools continued to support, the Capital LEAF (Leaders in Environmental Actions for our Future) program to recognize green, healthy, and sustainable schools in the District. In the 2020-21 school year, OSSE field tested the recognition process with elementary schools participating in the Environmental Literacy Leadership Cadre. Schools that completed the pilot include Latin American Bilingual Montessori Public Charter School (PCS), Lee Montessori PCS, Tubman Elementary School (ES), Murch ES, Thomson ES, Leckie ES, Miner ES, and Whittier ES. These schools were recognized during Growing Healthy Schools Month. Two schools that participated in the Fiscal Year 2020 pilot, Key ES and DC Bilingual PCS, received recognition from the US Department of Education Green Ribbon Schools program in April 2021.</p>

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ED1.3: Implement the Environmental Literacy Plan.	Short term	OSSE	DOEE, DCPS	3	<p>The District agency workgroup that developed the 2020 DC Environmental Literacy Plan (ELP) transitioned to become the Environmental Literacy Advisory Committee. The committee will strengthen and amplify efforts and resources to foster a thriving culture of health and environmental literacy as well as review plan progress and provide implementation recommendations. The Office of the State Superintendent of Education’s environmental literacy program continued working with schools in the Environmental Literacy Leadership Cadre and with grant partners to advance environmental literacy efforts. Grantees reached approximately 4,623 students through synchronous virtual programming and 113 students through in-person programming on school sites. Highlights include funding the Viking Garden at C.W. Harris, creating the 5th Grade Climate Change Cornerstone, and a professional development summer institute for five champion DC Public Schools teacher ambassadors.</p> <p>As additional progress towards ELP implementation, the Department of Energy and Environment developed the Nature Near Schools Meaningful Watershed Educational Experiences pilot program at 17 schools, and the University of the District of Columbia engaged students at Sojourner Truth School with interactive environmental models and shared the models with long term educational goals in mind. The Social Studies Standards Guiding Principles released by the DC State Board of Education in December 2020 include the recommendation that standards should ensure students develop skills to investigate the causes and consequences of society's impact on the environment and resolve challenges related to equitable access to natural resources.</p>
ED1.4: Provide adequate support so that every student will have access to meaningful environmental experiences in elementary, middle, and high school.	Long term	DOEE, OSSE	DCPS, DOEE	2	<p>The Office of the State Superintendent of Education created the online Outdoor Learning Resource Hub to support the establishment or enhancement of outdoor learning. Nature Connections: Livestream with Environmental Experts, was a bi-weekly series that provided virtual field experiences to locations in and around the District for students of all ages. Through the Middle School Watershed Education grant, environmental kits and synchronous online lessons with teachers and students were conducted at Kelly Miller School classrooms. Through the RiverSmart Schools education grant, watershed kits and asynchronous instructions were given to five awarded schools. In 2021, the Aquatic Resources Education Center provided online lessons in aquatic resources education and fish biology for pre-K-12 grade students. An online environmental education professional development course was developed and 26 educators enrolled and were certified. In addition, 100 DC Public Schools received funding to purchase items for outdoor learning spaces.</p>

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ED1.5: Provide dedicated scholarship funding to allow District residents of color to major in sustainability programs in higher education.	Long term	EOM	OSSE, DCPS, DOEE, UDC	1	No new progress.
<b>Goal 2: Expand community education and engagement on sustainability practices that will help residents live green lifestyles and save money.</b>					
<b>Target 2: By 2032, leverage resources to expose 100% of District residents living in underserved and underrepresented communities to sustainability events and initiatives in their neighborhood.</b>					
ED2.1: Increase District residents' awareness of sustainable living using culturally-relevant and community-driven materials.	Short term	DOEE	OP	3	A list of residential actions to "go green" are available on <a href="https://sustainable.dc.gov/page/go-green">https://sustainable.dc.gov/page/go-green</a> in English, Amharic, Chinese, French, Korean, Spanish and Vietnamese. They will serve as a foundation for creating additional culturally-relevant and community-driven materials on sustainable living. The Office of Planning launched an online community engagement hub for District residents to find upcoming events, initiatives, and opportunities to share input on key topics that help shape the future of our community. The hub is available at <a href="https://publicinput.com/Portal/T1274">https://publicinput.com/Portal/T1274</a> .
ED2.2: Increase participation of people of color in Sustainable DC community events, planning efforts, and implementation of programs and policies.	Short term	DOEE	DMGEO, OP, EOM	1	The 2021 District Sustainability Awards placed additional emphasis on recognizing applicants that reduce racial inequities. The application process included questions about steps taken to create equitable change and judges considered how applicants' efforts addressed inequities when making award selections. The Sustainable DC volunteer program, relaunched in October 2021, aims to highlight volunteer opportunities with organizations led by or that collaborate with people that are Black, Indigenous, and/or people of color.
ED2.3: Recognize residents and community leaders for their sustainability achievements with awards and in public sustainability campaigns.	Short term	DOEE	EOM	3	The 12th annual District Sustainability Awards were held in April 2021, honoring nine entities for their leadership balancing the environmental, economic, and social equity needs of the community.
ED2.4: Develop a list of actions that residents should take to help reach our sustainability goals based on data.	Short term	DOEE	OP, DDOT, DPW	4	The Department of Energy and Environment and the Office of Planning worked with a consultant partner to identify a list of actions residents can take that align with the goals in Sustainable DC 2.0 and with the community priorities expressed through qualitative data in surveys and focus groups during development of the plan. These actions are available on <a href="https://sustainable.dc.gov/page/go-green">https://sustainable.dc.gov/page/go-green</a> in English, Amharic, Chinese, French, Korean, Spanish, and Vietnamese.

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ED2.5: Create and promote accessible opportunities for adults to learn and build connections to the natural world.	Short term	DOEE	DPR, DMGEO, UDC	3	The Department of Energy and Environment manages multiple programs that provide accessible opportunities for adults and children to connect to the natural world. The Anacostia River Explorers boat tour program offers free tours to learn about the river’s history, wildlife, the environmental threats it faces, and the solutions being implemented to help it realize its full potential. The Anacostia Green Boats program, launched on Earth Day 2021, allows residents to reserve kayaks and canoes free of charge to explore Kingman Lake while removing trash and debris from the water. The Department of Parks and Recreation (DPR) continued to offer programs that have been consistently praised, such as wellness hikes, tiny park concerts, and nature photography, and added new programs like bird watching, outdoor learning, poetry in the park, growing guidance, city nature challenge, and communal farms. DPR activated Camp Riverview to conduct day visitations for seniors, recreational camps, and more. Additionally, DPR completed renovation projects for Carolina Park and Foxhall Playground (W street park), adding approximately 500 feet of accessible boardwalk to facilitate immersion and observation of the natural environment and birds. Carolina Park, previously a stream valley where a Native American Village once flourished, included historic signage created in partnership with the Office of Planning for a better site learning experience and preservation of the site's history.
<b>ENERGY</b>					
<b>Goal 1: Improve the efficiency of District-wide energy use to reduce overall consumption.</b>					
<b>Target 1: By 2032, cut per capita energy use District-wide by 50%.</b>					
EN1.1: Expand regular tracking and disclosure of energy performance.	Short term	DOEE	DGS	4	The Clean and Affordable Energy Act of 2008 requires that owners of all large private buildings (over 50,000 gross square feet) annually benchmark their energy and water efficiency and report the results to the Department of Energy and Environment (DOEE) for public disclosure. The District government also must annually benchmark and disclose the energy and water efficiency of its buildings over 10,000 gross square feet. Starting with calendar year 2021 data (due April 1, 2022), all privately-owned buildings over 25,000 square feet will be required to benchmark, and starting with calendar year 2024 data, (due April 1, 2025) all privately-owned buildings over 10,000 square feet will be required to benchmark. In addition, DOEE recently updated energy benchmarking data to include annual monthly energy consumption figures for all buildings and now discloses that on the Office of the Chief Technology Officer’s Open Data platform. DOEE continues to work with partners to investigate the best path to granting access to real-time, granular interval energy consumption information of utility customers to the DC Sustainable Energy Utility.
EN1.2: Establish a Building Energy Performance Standard for existing large buildings.	Short term	DOEE	DCRA	4	After an extensive outreach and engagement process, the Department of Energy and Environment established the first set of Building Energy Performance Standards (BEPS) on January 1, 2021. Standards will be re-established every six years.

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EN1.3: Replace all street and public lighting with high efficiency fixtures that protect public health, reduce light pollution, and don't harm wildlife.	Short term	DDOT	DGS, DCPS, DPR	2	The Department of Parks and Recreation (DPR) has adopted a light-emitting diode (LED) standard lighting pole for all new projects in public parks and recreational amenities, to reduce light pollution. The light fixture is considered the default, except in cases where the community prefers a different design. For new and renovated recreational fields, DPR prefers to install, when possible, state-of-the-art LED lights with blinders, which contribute to minimizing light pollution. Additionally, these new sports lighting systems are controlled with sensors or remote applications that allow DPR to adjust the lighting to the sites' schedule and weather/season changes. The Department of General Services partnered with DPR to upgrade Turkey Thicket Recreation Center's tennis court lights to LEDs. The District Department of Transportation advanced plans to convert its 75,000 streetlights to LEDs.
EN1.4: Fully fund, implement, and regularly update the <i>Clean Energy DC Plan</i> , the plan to achieve the District's greenhouse gas reduction goals.	Medium term	DOEE	DGS, EOM	2	The District made significant progress in implementing the Clean Energy DC Plan and the Clean Energy DC Omnibus Amendment Act. The Clean Energy DC Progress Reports are available on the Sustainable DC website. The Department of Energy and Environment worked to publish a request for applications to work with a local organization to establish the next iteration of the Clean Energy DC Plan.
EN1.5: By 2020, launch a citywide educational and behavioral campaign to lower citywide energy use and expand awareness of the District's resources for efficiency and renewable energy.	Short term	DOEE	EOM, DCHA, DC SEU, DOEE	4	In 2021, the Reduce Energy Use DC Campaign, an initiative to educate and inform the District on how to conserve energy, successfully signed-up over 5,300 constituents to pledge to reduce their energy use. The initiative included in-person and virtual events, a resource web page (including information about available Department of Energy and Environment and DC Sustainable Energy Utility programs), giveaways, and educational material.
EN1.6: Launch a program to accelerate deep energy retrofits in at least 20% of all buildings.	Short term	DOEE	DGS, DCHA, DC SEU	4	The Department of Energy and Environment established the 2021 Building Energy Performance Standards (BEPS), which set a minimum threshold of energy performance by property type created to drive energy performance in existing buildings to help meet the energy and climate goals of the Sustainable DC plan — to reduce greenhouse gas emissions and energy consumption by 50% by 2032. The Affordable Housing Retrofit Accelerator was launched that will provide direct technical and financial assistance to multifamily affordable housing buildings so they can meet the compliance requirements of BEPS.
<b>Goal 2: Increase the proportion of energy sourced from both clean and renewable supplies.</b>					
<b>Target 2: By 2032, increase renewable energy to make up 50% of the District's energy supply.</b>					
EN2.1: Reduce the use of fossil fuels for electricity generation and heating, and eliminate the dirtiest fuels by 2023.	Medium term	DOEE	OPC	1	The Department of Energy and Environment provided \$550,000 for the DC Sustainable Energy Utility to implement a Low-Income Decarbonization Pilot Program that provided deep energy retrofits and installed solar photovoltaic systems on single-family homes owned or rented by low-income District residents that utilized fossil gas or fuel oil as the primary source of heating and cooling.

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EN2.2: Build and support commercial and residential renewable energy projects sufficient to get at least 5 percent of citywide electricity from local generation.	Long term	DOEE	DC Water	2	The Solar for All program completed several community solar projects in 2021, including a 2.65 megawatt system at Oxon Run and a 1.14 megawatt system at Children’s National Research and Innovation Campus (RIC). The Oxon Run solar project is the largest community solar project in the District, delivering discounted renewable energy to over 750 Ward 8 residents. The RIC solar canopy will provide 325 income-qualified households with clean, renewable energy and electricity bill savings over the next 15 years. In addition, four megawatts of solar at DC Water's Blue Plains Advanced Wastewater Treatment Plant became operational in June 2021.
EN2.3: Provide residents with renewable energy by default, sourced from regional wind and solar farms by 2023.	Medium term	DOEE		1	The Public Service Commission’s (PSC) Order No. 19897 (of Formal Case 1017) directed the development of a 15-to-20-year wind or solar Power Purchasing Agreement to procure 5% of Standard Offer Service load beginning in 2024. This process is ongoing and is being managed by the PSC.
EN2.4: Expand the use of renewable sources of heating and cooling.	Ongoing	DOEE	DGS, OP, DC Water	1	DC Water continues to operate the wastewater-sourced system to generate energy for conditioning of its headquarters, HQO. Sewage from the DC Water system is also used to heat and cool the American Geophysical Union headquarters. At DC Water's Blue Plains Advanced Wastewater Treatment Plant, steam for solids treatment is produced from biogas. Treated wastewater effluent was identified and registered as a cooling source in the turbines for the Combined Heat and Power facility at Blue Plains. In addition, the Department of General Services (DGS) and DC Water performed an initial site feasibility evaluation for upcoming DGS modernizations to consider wastewater as a thermal energy source.
<b>Goal 3: Modernize energy infrastructure for improved efficiency and resilience.</b>					
<b>Target 3: By 2032, 100% of residents live within walking distance of a facility offering clean backup power to serve critical needs during power outages.</b>					
EN3.1: Use smart meters and smart grid infrastructure to collect data on electricity use.	Ongoing	DOEE	DGS, OCTO, OP, DDOT, OPC	1	The Department of General Services completed phase 1 of development of SustainableDGS, a utility dashboard that will publish interval data from building smart meters. Per Formal Case 1130, the Public Service Commission has created a working group to finalize recommendations for rules on how Green Button connect data will be provided, and benefit customers. The Green Button initiative is an industry-led effort that responds to a White House call-to-action to provide utility customers with easy and secure access to their energy usage information in a consumer-friendly and computer-friendly format.
EN3.2: Improve the reliability and resilience of the transmission and distribution of electricity, using smart grid technologies and distributed energy resources.	Medium term	DOEE	OCTO, OP, DDOT, OPC	1	Pepco is in the process of developing a non-wire alternative pilot, which is a step towards developing an integrated distribution plan. Non-wire alternative projects use distributed energy resources and other technologies to reinforce the grid, instead of relying on conventional transmission and distribution assets. The Public Service Commission is conducting a benefit-cost analysis framework.

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EN3.3: Remove all barriers to modernizing electricity infrastructure to enable the deployment of neighborhood-scale energy systems and distributed energy resources.	Medium term	DOEE	OCTO, OP, DDOT, OPC, DC Water	1	The Department of Energy and Environment (DOEE) continued to develop the 18-month U.S. Department of Energy-funded study examining how to electrify buildings and cars and focusing on the following areas: buildings, transportation, grid emissions rate modeling, grid assessment, and demand management strategies. DOEE has been an active participant in Public Service Commission working groups and discussions while also conducting its own studies on grid-related topics. DOEE has identified certain barriers, such as topics related to interconnection, microgrids, and data access, and is working to address these. In addition, DC Water completed the technical feasibility report for the Buzzard Point neighborhood-scale sewer thermal system in 2021.
EN3.4: By 2020, complete and begin implementing a neighborhood-scale energy system development plan to target high load growth areas and at risk communities.	Short term	DOEE	DC Water, OP, OPC	1	The Department of Energy and Environment (DOEE) is working to spatially map the locally available energy resources for buildings in the District—through actual or simulated data—as well as map the hourly load of District buildings, then delineate the DC territory into layers of zones or "neighborhoods" based on various useful criteria (net-zero energy, substation zones, etc.). The map will also include prioritized neighborhoods that can do non-pipe alternatives (solutions to avoid traditional fossil gas capital projects). In addition, DC Water continues to support development of neighborhood-scale energy systems and has provided information to the Metropolitan Washington Council of Governments and DOEE regarding inclusion of DC Water facilities as nodes or customers of such systems.
<b>FOOD</b>					
<b>Goal 1: Expand agricultural uses and production within the District.</b>					
<b>Target 1: By 2032, put 20 additional acres, including public right of way and rooftops, under cultivation for growing food.</b>					
FD1.1: Implement the “ <i>Urban Farming and Food Security Act</i> ” and expedite the process to make public and private lands available for a variety of urban agriculture uses.	Short term	DGS, DPR, DOEE	DOEE, DCFPC, OP, DDOT, DCRA, DC Health, EOM	2	The Department of Energy and Environment’s Office of Urban Agriculture leads the "Urban Farming and Food Security Act" land leasing program. The first Urban Farm Land Lease was signed in March 2021, with Apogee Farms in Ward 6. The Office of Urban Agriculture awarded \$51,000 in Urban Farm Tax Abatements. The Office of Urban Agriculture also released the first Urban Agriculture Infrastructure Grant Awards in spring 2021, which resulted in eight awardees receiving a combined \$67,712 to install infrastructure and increase capacity at urban agriculture projects. The Department of Parks and Recreation contributed to making public lands available through its Partner Urban Farm Program which allocated an almost three acre plot to DC Greens to build "The Well" urban farm, and a quarter acre plot to build the 16th Street Farm, located at the 16th Street Park, both to be completed in 2022.

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FD1.2: Develop food-producing landscaping on five acres of District public spaces distributed throughout all eight wards.	Medium term	DGS	DOEE, DDOT, DPR, DCFPC, OP	2	In 2021, the District Department of Transportation installed several new edible landscape elements in Wards 4, 5, and 8. This work has ranged from the basic, such as establishing orchards for public benefit, to the more elaborate, such as the Food Forest site designed and installed at Langley Elementary School in Ward 5. The Department of Parks and Recreation (DPR) renovated Lederer Gardens, a one-acre, 50-year old farm, allowing the site to grow over 3000 pounds of produce for the community. DPR also planted two food forests (Lederer Gardens and Edgewood Rooftop farm) and activated two weekly farm veggie giveaways at both sides. In addition, DPR built Hardy Garden, a new community garden and started two new farms through its Partner Urban Farm program, The Well at Oxon Run and the 16th Street Farm. The recently passed District Comprehensive Plan calls for a focus on sustainability in urban planning which includes the development of food security and food access development in public spaces. The DC Food Policy Council and Office of Urban Agriculture are working with a group of graduate students to understand how other jurisdictions manage the nexus of public space for food-producing landscaping (such as community gardens) and affordable housing development, which will inform future planning efforts.
FD1.3: Develop and support school gardens and garden-based food system education to engage DCPS and charter school students.	Short term	OSSE	DCPS, DOEE, DGS	2	During the 2020-21 school year, 45 public and public charter campuses in the District had active school gardens and engaged 5,571 students and 311 teachers. The Office of the State Superintendent of Education (OSSE) did not award new school garden grant funds in fiscal years 2021 or 2022. OSSE continued implementing training for teachers on school gardens, including the Summer Institute for Garden-Based Teaching, which successfully pivoted to a series of virtual trainings during summer 2021. OSSE also awarded the "Best School Garden Award" to students at three schools.
<b>Goal 2: Ensure that all residents have access to affordable, quality, and nutritious food.</b>					
<b>Target 2: By 2032, ensure that 75% of low-income residents live within a quarter mile of a quality full-service grocery store, with a focus on underserved communities.</b>					
FD2.1: Identify and implement effective, innovative policies to recruit quality, full-service grocery stores to underserved areas.	Medium term	DCFPC, OP, DMPED	DSLBD	3	Mayor Muriel Bowser and the Office of the Deputy Mayor for Planning and Economic Development (DMPED) launched the application process to award at least \$7 million in grants to create more food access points through the Food Access Fund (FAF). The purpose of the FAF is to increase equitable access to fresh, healthy, and affordable food, as well as increase access to additional food options by securing grocery stores, restaurants, fast-casual restaurants, and other food access points for areas with low food access. DMPED provided nearly \$1 million for the Nourish DC Fund to provide grants, loans, and technical assistance to local food businesses in underserved communities. Mayor Bowser, DMPED, and community leaders also celebrated the grand opening of Good Food Markets, which will provide job opportunities and fresh food options to the Bellevue community in Ward 8.

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FD2.2: Provide financial support and technical assistance to small retailers and mobile food vendors to expand healthy, culturally-appropriate food options for neighborhoods with limited access to fresh and healthy food.	Short term	DSLBD	DC Health	3	The Department of Small and Local Business Development (DSLBD) hosted a kitchen matchmaking session for food vendors looking for commercial kitchen space, with over 100 attendees. DSLBD matched several attendees with kitchens and brought challenges and needs to District government partners. DSLBD promoted the Nourish DC program grants through technical assistance and information sessions, as well as provided a dedicated “food business technical assistance” day and signups in both English and Spanish for food businesses in partnership with the Latino Economic Development Center. DSLBD provided training sessions on starting a food business and created a one-page guide for starting and registering a food business. DSLBD also provided one-on-one technical assistance to over 30 food businesses over the course of the year.
FD2.3: Expand and promote food assistance programs at grocery stores, farmers markets, and corner stores citywide.	Medium term	DC Health	DSLBD, DHS	2	DC Health provided technical assistance and authorized eight corner stores in Wards 5, 7, and 8 to accept DC Special Supplemental Nutrition Program for Women, Infants and Children (WIC) benefits. DC Health made significant progress towards transitioning DC WIC from paper checks to Electronic Benefits Transfer. DC Health supported 67 Healthy Corner Stores with technical assistance, marketing materials, and refrigeration equipment to sell fresh fruits and vegetables at below market prices. DC Health coordinated with the Department of Energy and Environment, DC Food Policy Council, and Department of Aging and Community Living through Produce Plus and supported 29 farmers' markets and 23 community sites to distribute weekly pre-packed boxes of fresh produce. In fiscal year 2021, DC Health continued a grab-and-go model for Produce Plus and managed enrollment online to ease sign-up and distribution.
FD2.4: Support evidence-based nutrition and cooking education efforts across all populations to help residents make healthier choices.	Short term	DC Health	DCFPC, OP, DSLBD, UDC	3	DC Health collaborated with the DC Food Policy Council (FPC), University of the District of Columbia, and multiple community-based organizations as part of the FPC's Nutrition Education Working Group and implemented evidence-based, culturally-tailored nutrition and cooking education at childcare centers, elementary, middle, and high schools, recreation centers, parks, community-based organizations, food pantries, housing sites and senior wellness centers. Partners shifted traditional programming and developed innovative methods – both virtual and in-person – to build residents' skills and confidence to shop for, prepare, and eat healthy foods. The FPC's Nutrition Education Working Group is working with a Howard University Doctoral student to conduct a nutrition education landscape assessment to determine the programs that operate in the District as well as their overlap, outcomes, best practices, and target populations, to better understand how to measure and achieve collective outcomes for District residents.

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<p>FD2.5: Implement the Nutrition Education Plan to make nutrition education as comprehensive as possible and to nurture students' healthy eating habits.</p>	<p>Medium term</p>	<p>OSSE</p>	<p>DCPS, DCFPC, OP, UDC</p>	<p>2</p>	<p>The DC Food Policy Council (FPC) has renewed its partnership with the Office of the State Superintendent of Education in support of the U.S. Department of Agriculture (USDA) Farm to School Grant, which expands on current farm to school and Healthy Tots programming and outreach to reflect a more comprehensive, inclusive, and relevant farm to Child Nutrition Programs approach. In addition, the DC Public Schools (DCPS) Food and Nutrition Services team partners with local nonprofits to incorporate healthy eating habits into class time, partners with embassies to introduce students to new foods, conducts frequent sampling of menu items with students and adults, and collects data from students to increase the palatability of healthy foods. 45 DCPS schools participate in the USDA Fresh Fruit Vegetable Program, receiving a twice weekly sampling of fresh fruit and vegetables that students are typically unfamiliar with and corresponding nutrition education. 19 DCPS schools partner with FRESHFARM FoodPrints, which helps Title I schools grow, prepare, and enjoy local whole foods. The program integrates gardening, cooking, and nutrition education into the school curriculum.</p>
<p>FD2.6: Improve the quality of institutional food grown or purchased with District local funds, including in DCPS and public charter schools, childcare centers, jails, homeless shelters, and other institutional settings.</p>	<p>Medium term</p>	<p>DCFPC</p>	<p>OSSE, DCPS, DHS, DOC, OCP, DBH</p>	<p>3</p>	<p>The DC Food Policy Council (FPC) continues to support all of its agency partners in increasing the quality of their institutional food programs. Over the past year, the FPC has conducted interviews with District food procurement officers and food program operators to understand their needs and challenges with increasing values-based procurements for their institutions, and will use this information to convene decisionmakers and improve the quality of institutional meals within the District. Per the DC Public Schools (DCPS) food services contract, 30% of all food ingredients and products served or used at DCPS locations are purchased locally. DCPS has a School Food Advisory Collaborative comprised of parents, students, administrators, and community members, and vendors are required to administer a Student Satisfaction Survey quarterly and a Satisfaction Plan annually. District schools reported working with 26 new local farms in the past school year. The Office of the State Superintendent of Education began using grant funding to increase local foods in eligible Child Nutrition Programs (CNPs) by implementing comprehensive farm to CNP programming. The Healthy Tots team continued to partner with FRESHFARM to provide locally grown fresh fruits and vegetables to childcare centers around the District through the Early Learners Market Share program. This partnership was expanded in fiscal year 2021 and was awarded a Farm to Early Care and Education Implementation Grant.</p>

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<b>Goal 3: Develop and support the food industry as a vibrant and equitable sector of the local economy.</b>					
<b>Target 3: By 2032, expand the food sector of the economy by 2,000 jobs that pay a living wage, offer safe working conditions, promote sustainability, and increase healthy food access for residents.</b>					
FD3.1: Complete a comprehensive study of the District’s food system and recommend policies to improve the current system.	Ongoing	DCFPC, OP		4	The DC Food Policy Council (FPC) published “The Road Ahead: 2021 Update on Food Access & Food Security in the District of Columbia,” which evaluates the ambitious steps the District has taken and the progress that has been made to address food insecurity of its residents. The Office of Planning and FPC also released the Centralized Kitchen Study, a “Full Assessment of a Central Food Processing Facility for Washington, DC,” which provides best practices for creating a more sustainable food system in the District. In October 2021 the FPC published its Terms Guide which analyzes, discusses, and creates rules for utilizing food and racial equity terms in its work. This document will continue to be evaluated on an annual basis to ensure it is adaptive and representative of District residents and businesses.
FD3.2: Collaborate regionally on the creation of a local food hub and other facilities for aggregation, processing, and distribution of local food products.	Medium term	DCFPC, DMPED	OP	2	The Office of Planning and the DC Food Policy Council (FPC) released the Centralized Kitchen Study, a “Full Assessment of a Central Food Processing Facility for Washington, DC.” The study assesses how the District could best use a central food processing facility to improve the nutritional quality of meals served in public institutions (such as schools, senior centers, and correctional facilities), support local food businesses, create career pathways in the food sector, and strengthen the District’s food resiliency in case of future emergencies. Many nonprofits, emergency food providers, and District agencies support the project and have referenced the report in hearings, testimony, and funding applications. The FPC is working with the Metropolitan Washington Council of Governments and the Homeland Security and Emergency Management Agency to determine opportunities for how this may impact and help deliver emergency food and water resources as part of crisis management and local/regional food systems development as part of the Food and Water Resiliency Study commissioned by the Federal Emergency Management Agency. In addition, through the Neighborhood Prosperity Fund, the Office of the Deputy Mayor for Planning and Economic Development provided funding to the Marshall Heights Community Development Organization and DC Central Kitchen to support kitchen and retail café space featuring locally grown products.
FD3.3: Develop a citywide workforce development strategy focused on expanding food sector jobs that promote public health and fair working conditions.	Medium term	DCFPC, OP, DOES, WIC	DOES, DSLBD, DMPED	4	The DC Food Policy Council (FPC) held several listening sessions focused on gaining perspective from entrepreneurs, business owners, and food systems workers, with support from the Department of Small and Local Business Development, and as a follow up to the release of “Make Food Work: A Strategy to Strengthen the DC Food Workforce,” in early 2020. This effort culminated in a kitchen matchmaking event which connected entrepreneurs with businesses and organizations that had commercial kitchen space available for use. This has helped to expand the number of food sector jobs and the potential for increased growth in the District.

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ACTION TEXT	TIME FRAME	LEAD AGENCY	PARTNER AGENCIES	PROGRESS	STATUS DESCRIPTION
<b>Goal 4: Prevent, reduce, and recover food waste.</b>					
<b>Target 4: By 2032, reduce food waste by 60%.</b>					
FD4.1: Conduct a food waste assessment to identify the types and quantities of food that are thrown away in the District.	Medium term	DPW	DCFPC, OP	0	No new progress.
FD4.2: Educate businesses and institutions on how to prevent food waste, recover unused food, and understand liability protections.	Medium term	DPW, DCFPC	DC Health, DOEE, OP, ORM, DPR	2	The Commercial Food Donation Guide from DC Health and Department of Public Works was released in May 2021 and is available at <a href="https://zerowaste.dc.gov/page/food-yard-waste-businesses">https://zerowaste.dc.gov/page/food-yard-waste-businesses</a> .
FD4.3: Incentivize food donations by businesses, schools, and institutions through policy changes.	Medium term	OTR, DME	DCFPC, OP, DPW, DCPS, OCTO, DSLBD	1	The Commercial Food Donation Guide from DC Health and Department of Public Works was released in May 2021 and is available at <a href="https://zerowaste.dc.gov/page/food-yard-waste-businesses">https://zerowaste.dc.gov/page/food-yard-waste-businesses</a> . The Department of Small and Local Business Development incentivized food donations by encouraging applicants to the Food Waste Innovation Grants to move higher up in the food waste hierarchy beyond waste processing to food donation.
FD4.4: Educate residents and food related businesses on proper buying, storing, and disposing of food to minimize waste.	Medium term	DCFPC, DPW	DC Health, OP, DPW, DPR, DSLBD, DCPS	2	Food Recovery Week continues to operate in the District to educate businesses, residents, and community-based organizations about how best to minimize food waste. The Commercial Food Donation Guide from DC Health and Department of Public Works was released in May 2021 and is available at <a href="https://zerowaste.dc.gov/page/food-yard-waste-businesses">https://zerowaste.dc.gov/page/food-yard-waste-businesses</a> . The Department of Parks and Recreation trained more than 1,000 residents to compost food scraps and the Department of Small and Local Business Development launched the Food Waste Innovation Grants, which will distribute \$500,000 to address food waste from commercial food businesses. The Department of Public Works held composting workshops for District residents as part of its Home Composting Program, allowing attendees to qualify for a rebate towards a home composting system.

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ACTION TEXT	TIME FRAME	LEAD AGENCY	PARTNER AGENCIES	PROGRESS	STATUS DESCRIPTION
<b>HEALTH</b>					
<b>Goal 1: Provide residents with resources to achieve healthy, active lifestyles, regardless of income, ability, employment, or neighborhood.</b>					
<b>Target 1: By 2032, 65% of residents get at least 150 minutes per week of physical activity.</b>					
HE1.1: Collect data at parks and recreation centers, particularly in areas of low-use and low income, to improve planning and programming decisions.	Short term	DPR	DGS, OP, DC Health, OCTO	3	The Department of Parks and Recreation (DPR) continues collecting data citywide, informing planning and programming decisions through customer surveys, program demographics, program enrollment, fees paid to DPR, quarterly program quality assessments, and programmatic needs. Further, in 2021 DPR acquired Amazon Web Services (AWS) to enhance and scale-up DPR's ability to collect customer feedback. The addition of the AWS technology has allowed DPR to manage day-to-day customer engagement, hold themselves and teams accountable and quickly exchange actionable information intra-agency more efficiently. DPR is also in the community engagement phase of its master planning effort, Ready2Play. Additionally, DPR has conducted ward by ward meetings to engage with and solicit feedback from District residents on what they want to see from DPR for the next 20 years.
HE1.2: Prioritize community-driven strategies to support physical activity in unexpected but everyday spaces.	Medium term	DPR	OP, DDOT, CAH	2	During the safe return to full summer operations, the Department of Parks and Recreation's (DPR) Roving Leaders implemented a full calendar of mobile activation events across the city, including the popular movie nights and a weekly "Play in the Park" event at Oxon Run in Ward 8 with moon bounces, skate mobile, rock wall, and more. The agency also hosted bi-weekly and Saturday evening events across 20 different DPR facilities responding to the high need for programming in the evening hours. In 2021, DPR continued supporting the #FITDC3 campaign to empower residents to take control of their mental and physical health and promote wellness and community in the District. Lastly, DPR continued to expand its offer of outdoor fitness events, bike rides, and 5k across the District. Through a partnership with the Friends of Oxon Run, DPR assisted in year-round Outdoor Education in Oxon Run, promoting nature conservation, outdoor cultural arts, and outdoor recreation.
HE1.3: Design parks, open spaces, and recreational facilities to reflect the resident preferences and culture of the local population, and to accommodate a range of age groups and abilities.	Long term	DPR	DGS, OP, DC Health, DBH	2	Washington, DC has once again been ranked #1 in the nation by the Trust for Public Lands' 2021 ParkScore Index, achieving a perfect score of 100 out of 100 in investment. The District also received high marks in access and equity, measured by the distribution of parks according to race and income.

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<b>Goal 2: Provide high quality, safe, and sustainable places to be healthy and active.</b>					
<b>Target 2: By 2032, reduce disparities in the quality of places contributing to disparate health outcomes by 15%.</b>					
HE2.1: Complete a new study on the intersection between the built environment and health to understand the social, environmental, and economic barriers to healthy outcomes.	Short term	OP, DC Health	DDOT, DOEE, DGS, DPR, DBH	1	The Office of Planning’s (OP) Congress Heights Small Area Plan focused on how improvements to the public realm, community facilities, and housing can improve life outcomes for the Congress Heights community, with a focus on Black residents, people with disabilities, older adults, and youth. The ‘Guideline for Reimagining Outdoor Space: Restaurants and Retail’ was finalized in coordination with DC Health and the District’s Department of Transportation (DDOT). These guidelines demonstrate how public space can be used for expanded and new seating. Additionally, DDOT’s Urban Forestry Division (UFD) continued to leverage and apply insights and lessons drawn from the 2018 Health Equity Report (HER), to ensure our program continues to be delivered to those who stand to benefit most from the benefits trees provide.
HE2.2: Eliminate the human health impacts of contaminated sites in Washington DC and identify areas where new authority is required.	Long term	DOEE	DC Health, DMPED, EOM	2	The Department of Energy and Environment (DOEE) reduced lead in drinking water through sampling and remediation (filters) at OSSE licensed child development facilities. DOEE also conducted quarterly Quality Assurance and Primary Prevention Webinars for all child development facilities to ensure compliance and standard operating procedures are followed.
HE2.3: Improve public safety through the development and implementation of resident-driven design, programming, and maintenance of streetscapes, parks, and other public spaces.	Medium term	DPR, OP, DDOT	DGS, MPD	2	The Department of Parks and Recreation continued using an Access and Security enhancement funding in 2021 to implement security systems (cameras) and enhancements (lighting and fencing) at different recreation centers and parks. For example, in 2021, safety improvements were made to the Park at Le Droit and Bald Eagle Recreation Center.
HE2.4: Audit and eliminate environmental health threats (mold, lead, and carbon monoxide) in 100% of Washington DC's public housing.	Long term	DCHA	DOEE ESA, DHCD	2	The Department of Energy and Environment (DOEE) renewed its data-sharing memorandum of agreement with the DC Housing Authority (DCHA) to identify DCHA-assisted property addresses likely to contain lead hazards for investigation and remediation by DCHA. DOEE's Lead-Safe and Healthy Housing Division also refers households with lead hazards to DOEE's Lead Reduction Program, which provides funds from the United States Department of Department of Housing and Urban Development (HUD) to reduce lead-based paint hazards in low-income homes.

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HE2.5: Develop an interagency heat management strategy to minimize the injury rate associated with extreme cold and heat temperature days.	Short term	HSEMA, DOEE	OP, DPR, DDOT, DGS, FEMS, DHS, DPW, DBH, UCC, DC Health, DC Water	2	The Department of Parks and Recreation is actively working with the Homeland and Emergency Management Agency to incorporate resilient hubs recommendations into the renovation project for Ketcham Recreation Center. The Department of Energy and Environment drafted a comprehensive heat plan based on feedback from stakeholders which will be finalized in 2022.
<b>Goal 3: Improve population health by systematically addressing the link between community health and place, including where we are born, live, learn, work, play, worship, and age.</b>					
<b>Target 3: By 2032, reduce racial disparities in life expectancy by 50%.</b>					
HE3.1: Evaluate Health Impact Assessments as a tool for promoting health through new policies, practices, developments and renovations.	Medium term	DC Health, OP	DOEE, DMPED	2	The Comprehensive Plan update which was enacted in 2021 included new policies, actions, and narrative that explicitly address equity with factors such as accessibility, diversity, and livability. Additionally, the Office of Planning (OP) in collaboration with other District agencies like DC Health conducted a pilot Health Equity Impact Review concurrent with the Congress Heights Small Area Plan process.
HE3.2: Study healthy community design principles for inclusion in all new affordable housing projects and major retrofits.	Short term	DHCD	OP, DOEE, DC Health, DDOT, DPR	2	The Deputy Mayor for Planning and Economic Development, Office of Planning, and the Department of Housing and Community Development (DHCD) are collaborating to look further into converting vacant downtown office space into homes, with an emphasis on affordable and workforce housing. Additionally, the Department of Energy and Environment (DOEE) worked with DHCD to incorporate sustainable design requirements into DHCD's 2021 Consolidated Request for Proposals for funding to produce and preserve affordable housing in the District. These requirements appear in the mandatory threshold requirement to achieve 2020 Enterprise Green Communities Certification as well as priority consideration for projects that pursue other healthy design principles.
HE3.3: Launch a comprehensive multi-level health literacy campaign across the District.	Short term	DC Health	DBH	1	DC Health is in the planning and development phase; soon to be in early implementation.
HE3.4: Increase public awareness campaigns concerning how to prevent bites and control diseases spread by mosquitoes, ticks, and fleas in all communities.	Ongoing	DC Health, DOEE	HSEMA	1	DC Health provides a District-wide larvicide program that treats the District's watershed catch basins as well as standing water complaints from District residents. Additionally, the Department of Energy and Environment (DOEE) deploys mosquito traps in all 8 wards. Afterwards, DOEE tests trapped mosquitos for West Nile Virus as well as Eastern Equine Encephalitis Virus weekly, and the program runs from June 1 through October 31st each year. If there is a positive test in any ward, the agency informs all residents within a half-mile radius of the positive test result.

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<b>NATURE</b>					
<b>Goal 1: Protect, restore, and expand aquatic ecosystems.</b>					
<b>Target 1: By 2032, protect, restore, and create 1,000 acres of critical aquatic habitat.</b>					
NA1.1: Develop a Wetland Registry to facilitate restoration or creation of wetland habitat.	Long term	DOEE	DPR, OCTO, DGS	4	In November 2021, the Department of Energy and Environment (DOEE) published an update to the Wetland Registry and renamed it the "Aquatic Resources Registry." The Aquatic Resources Registry is available on the DOEE website and allows the public to view data collected during the inventory of District wetlands. The updated version includes submerged aquatic vegetation survey results for the last five years, and additional stream mapping. The Office of the Chief Technology Officer helped DOEE publish wetland registry datasets to the publicly accessible Open Data DC catalog. This platform allows users of all types to browse the data, download it as flat-files or build web apps using application programming interfaces.
NA1.2: Plant and maintain an additional 150 acres of wetlands in targeted Conservation Opportunity Areas.	Long term	DOEE	DPR, DGS	1	The Department of Energy and Environment (DOEE) advanced designs at Fort Dupont, which was originally slated to restore 5-7 acres of wetland behind the seawall where Fort Dupont outfalls into the Anacostia River, but has been expanded and could restore up to 10 acres of wetlands in total on both sides of the seawall. Additional Fort Dupont design work will increase total acreage of wetlands to the Fort Dupont watershed to the east of the CSX tracks. DOEE posted a Request for Proposals for a design-build wetland restoration project in the Hillcrest neighborhood in Southeast DC. The Oxon Run Environmental Assessment and Preliminary Design solicitation was issued in 2021, which will include design work to restore wetland along Oxon Run and within Oxon Cove. As part of an ongoing project to address a standing water and clogged culvert issue at the Foxhall/W St. Playground site since 2019, DOEE wetland scientists have delineated the wetland and added it to the aquatic resources registry. DOEE is working closely with the Department of Parks and Recreation and the community to draft a wetland-appropriate planting plan for the area and aims to issue a small contract to complete this effort in 2022. Additional wetland areas were identified and registered at the Linnean Park location. A plan for supplemental, wetland-appropriate plantings has been developed and is slated for implementation in 2022.
NA1.3: Partner with developers to incorporate living shorelines in waterfront developments.	Short term	DOEE	OP	1	In May 2021, the Department of Energy and Environment issued a grant to Biohabitats, Inc. to develop a comprehensive restoration plan for aquatic habitat in the tidal Anacostia River corridor. The plan will identify opportunities for the living shorelines, in addition to other restoration project types, along the river corridor.

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NA1.4: Reduce threats to 75 aquatic species of greatest conservation need.	Long term	DOEE		2	The Department of Energy and Environment (DOEE) Fisheries and Wildlife Division continued work with partnering agencies to manage the population of Canadian Geese in the District to reduce the damage to submerged aquatic vegetation, water quality, and wetlands. Wildlife biologists continued research on Species of Greatest Conservation Need reptile and amphibian species as part of the U.S. Fish and Wildlife Service State Wildlife Grant Program. Additional funding for spotted turtle research was also secured and surveys continued in 2021. DOEE wildlife biologists continued active participation in the Northeast Partnership for Amphibian and Reptile Conservation. In addition to all of this, DOEE's Fisheries Research Branch secured a grant to expand submerged aquatic vegetation (SAV) restoration efforts in the Potomac and Anacostia Rivers. This will be a five-year project beginning in 2022 aimed at creating SAV seed beds that exhibit storm event resiliency and propagate surrounding areas. Finally, the Fisheries Research Branch is also participating in a regional sturgeon monitoring program. In 2021, DOEE passively intercepted six Atlantic sturgeon using acoustic telemetry receivers.
<b>Goal 2: Protect, restore, and expand land ecosystems.</b>					
<b>Target 2: By 2032, restore, protect, create, or improve 2,000 acres of critical land habitat.</b>					
NA2.1: Plant and maintain 10,500 new trees per year in priority areas to achieve 40% tree canopy cover by 2032.	Ongoing	DDOT	DOEE, DGS, DPR, OCTO	4	Tree planting numbers have exceeded annual goals for canopy cover and Municipal Separate Storm Sewer System (MS4) permits consecutively for four years despite the public health emergency. A total of 13,470 trees were planted in fiscal year 2021, representing a collective effort of multiple partners, including the District Department of Transportation (DDOT), Department of Energy and Environment, Department of Parks and Recreation, Casey Trees, Pepco, General Service Administration, National Park Service, and others. However, the forthcoming tree canopy data may indicate that recent planting efforts have not caught up with the most recent losses due to development. DDOT's Urban Forestry Division completed a Climate-Adapted Tree Planting Analysis to inform tree planting decisions to increase the use of non-invasive, climate-adapted species to better tolerate future conditions. The Office of the Chief Technology Officer helped DDOT's Urban Forestry Division build and maintain community engagement websites supporting the tree canopy initiative. These websites include interactive web maps, immersive story maps, and downloadable datasets. They are found at: <a href="https://trees.dc.gov">https://trees.dc.gov</a> and <a href="https://forestactionplan.dc.gov">https://forestactionplan.dc.gov</a> .

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NA2.2: Remove invasive plants on 500 acres of critical habitat based on a strategic management plan.	Medium term	DOEE	DGS	2	The Department of Energy and Environment (DOEE) led the National Capital Partnership for Regional Invasive Species Management (PRISM) to plan and implement invasive plant projects in the District. The PRISM hosted volunteers to remove English ivy at Melvin Hazen Park, with two acres of ivy groundcover removed. PRISM partner Anacostia Watershed Society started a project to restore the riparian habitats at Langston Golf Course. They have removed one acre of invasive plants and seeded the area with native grasses and forbs. The National Park Service (NPS) managed invasive plants on 62 acres and planted or seeded two and a half acres of habitats in Rock Creek Park. NPS's Invasive Plant Management Team managed invasive plants on approximately 180 acres of NPS property in the District in 2021. DOEE led the restoration of Kingman Island in 2021. DOEE's contractors removed and treated bush honeysuckle on 25 acres of Kingman Island, and treated tree-of-heaven, pawlonia, porcelinaberry, Japanese knotweed, sweet autumn clematis, and other species throughout the 42 acres of Kingman and Heritage Islands. DOEE's River Corps program manually removed 23 acres of invasive plant species at Alger Park, Branch Avenue, Linnean Park, Pope Branch, and Watts Branch.
NA2.3: Create or restore a minimum of 200 acres of meadow habitat.	Long term	DOEE	OP, DDOT, DGS, DPR, DCHA, DHCD	1	The Department of Energy and Environment (DOEE) continued to maintain the existing five acres of meadow restoration projects and is working with sister agencies and federal partners to locate additional areas to restore to meadow habitat. The Office of Planning joined as a member of the DC Flood Task Force to tackle issues related to climate mitigation like restoring meadow habitat and wetland. The District Department of Transportation (DDOT) has continued to collaborate with DOEE on meadow establishment in the right-of-way. Additionally, DDOT has delivered and/or permitted meadows as prominent elements of capital improvement projects delivered in 2021. Key examples include the Frederick Douglass Memorial Bridge, and I-295/Malcolm X Interchange.
NA2.4: Incorporate biodiversity and the use of native plants in green infrastructure on District Government land.	Short term	DOEE, DDOT	OP, DPR, DGS	2	The Department of Energy and Environment (DOEE) is updating the Green Area Ratio regulations to emphasize the use of native plants and to prevent the use of invasive plants. DOEE is reviewing other planting guidance manuals and documents to emphasize the use of native plants. The District Department of Transportation partnered with the Northern Institute of Applied Climate Science to develop a climate adapted analysis of both existing forest resources and trees actively being planted. The exercise resulted in a customized palette of species to either promote, maintain, or reduce in ongoing and future planting operations. These efforts are leading to a public forest resource that is more diverse, resilient, and enduring. In addition, the Department of Parks and Recreation (DPR) incorporated biodiversity and native plants in green infrastructure on the modernization projects of its sites. The green infrastructure at the renovation of DPR's recreational amenities in Shaw, part of the Banneker High School Modernization Project, included a list of carefully selected native plants. The Hardy Recreation Center modernization included a bioretention area with native wildflowers.

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NA2.5: Create a habitat connectivity plan to guide restoration of viable, native habitats throughout Washington DC and in coordination with surrounding jurisdictions.	Short term	DOEE	DDOT, OP, DPR, DGS, OCTO	1	The Department of Energy and Environment (DOEE) issued a grant in 2021 to an entity to develop a comprehensive restoration plan for aquatic habitat in the tidal Anacostia River corridor. The plan will identify and prioritize restoration projects, include habitat in the 100-year floodplain, and will have the input and buy-in of agencies managing land in the watershed. Additionally, DOEE worked with federal and sister agencies to establish habitat corridors from within and connecting to neighboring jurisdictions. These habitat corridors will increase the instruct value, viability, and sustainability of habitats while providing for greater wildlife movements and reducing human wildlife conflict. DOEE studied the use of the Department of Public Works' data on animal collisions for this project, in addition to expert opinion and hyperlocal knowledge of critical habitats.
NA2.6: Require the District Government to use native plants and trees in all landscaping and green infrastructure outside the roadway right-of-way.	Short term	DOEE	DDOT, DGS, OP	3	The District has developed Sustainable Procurement Guidelines for landscaping that defines and requires the use of native plants in landscaping on District government lands, available on the Office of Contracting and Procurement website. Additionally, in January 2021, the team for the Partnership for Invasive Species Management (PRISM) project developed resources, conducted volunteer trainings, held weed warrior invasive removal and native planting events, and advised agency and nonprofit partners on planting native species and the identification and rapid eradication of invasive plants. The District Department of Transportation (DDOT) continues to specify mainly native plants, with a focus on avoiding any non-native species which have the potential to displace native species. As DDOT works to insulate public forest resources from threats associated with a changing climate, it continues to identify trees which are native nearby, and may be more tolerant of future anticipated climate conditions.

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<b>Goal 3: Improve human access to and stewardship of nature.</b>					
<b>Target 3: By 2032, provide access to the natural environment or quality green space within a 10-minute walk of all residents.</b>					
NA3.1: Improve the formal trail network for hiking and biking—prioritizing areas east of the Anacostia River—while balancing protection of habitat.	Medium term	DDOT	DPR, OP	2	The District Department of Transportation (DDOT) funded trail maintenance on Kingman Island for hiking and continued construction of the Metropolitan Branch Trail (MBT) to Fort Totten in Ward 5; the Malcolm X Trail in Ward 8; the new Frederick Douglass Bridge in Wards 6 and 8; and the Rock Creek Trail in Wards 1, 2, 3, and 4. DDOT also completed construction of the MBT along Eastern Ave in Ward 4 and continued to advance designs for the Arboretum Bridge and South Capitol Street Trail. DDOT continued construction of the South Capitol Street Bridge which includes two miles of new multi-use trails. The DDOT Urban Forestry Division continues to administer the Trail Ranger program, in partnership with the Washington Area Bicyclist Association, which works to create inviting trail conditions to increase activation and use of the existing trail network. The Department of Parks and Recreation completed renovation projects for Carolina Park and Foxhall Playground (W Street Park), adding approximately 500 feet of accessible boardwalk to facilitate immersion and observation of the natural environment.
NA3.2: Increase the number of “nature play spaces” at District playgrounds.	Medium term	DPR	DCPS, DGS	1	The Department of Parks and Recreation completed playground renovations with nature-inspired playground equipment at W Street (Foxhall) Park, Carolina Park, Hardy Recreation Center, and Franklin Park. In addition, some natural design components were integrated into modernizations and playground projects at District of Columbia Public Schools (DCPS) in 2021. The District Department of Transportation Urban Forestry Division and the Office of the State Superintendent of Education have provided DCPS and public charter schools with wood products to improve school grounds and parks at no cost. Both Capitol Hill Montessori and John Lewis Elementary School included natural elements in design of their playgrounds as part of a holistic design that related back to the overall themes and programs of those two facilities. Children can interact with natural materials as part of their play experience as these materials are used in lieu of plastic and metal.

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ACTION TEXT	TIME FRAME	LEAD AGENCY	PARTNER AGENCIES	PROGRESS	STATUS DESCRIPTION
NA3.3: Create or improve small parks and natural spaces in underserved areas.	Short term	DPR	DCPS, OP, DDOT, DOEE, DGS	2	The Department of Parks and Recreation (DPR) completed the renovation of small parks such as Larry Allen Park in Ward 4, Southwest Duck Pond in Ward 6, 16th Street Playground in Ward 1, Riggs LaSalle Playground in Ward 4, and the interim activation of Crummell School in Ward 5. Pope Branch Trail restoration is ongoing and will improve access to a natural space. The Office of Planning and DPR collaborated to secure funding from the Federal Emergency Management Agency to conduct pilot resilient small parks and open space projects, which could be a model for spaces across the District. The District Department of Transportation enlarged or created tree spaces in 2021, including adding seven new tree spaces at Columbia Rd/Adams Mill Rd/18th St NW. The Department of Energy and Environment restored parklands around the Douglass Recreation Center, Woody Ward Recreation Center, Fort Greble Park, and Fort Stevens Recreation Center, as part of ongoing collaboration to environmentally restore DPR parklands.
NA3.4: Provide informational resources on backyard wildlife habitats, native plant gardening, container and vertical gardening, and creating pollinator habitats.	Short term	DOEE	DPR, DC Health	2	<p>The Department of Energy and Environment (DOEE) RiverSmart Homes team developed information on integrated pest management (IPM) on private property and continued to provide updated native plant resources for homeowners on the RiverSmart Homes website. RiverSmart auditors met with 1,415 residents in 2021 and provided information on the importance of using IPM, native plant landscaping, and maintenance resources for managing native plantings. The DOEE Fisheries and Wildlife Division, Wildlife Management Branch continues to provide online resources, educational events, and citizen science opportunities to educate the public on increasing habitat for wildlife and the importance of selecting native plants and pollinators to create sustainable ecosystems.</p> <p>The Department of Parks and Recreation (DPR) continued engaging with DC residents in diverse ways to promote and expand the Community Gardens Program, including educational programming such as the virtual Urban Gardening 101 course, volunteer hours, events, and garden-to-table demonstrations. DPR organizes programs at recreation centers and/or on-site at DPR community gardens to encourage gardening skills and gardener placement in its growing spaces. These opportunities expanded to DPR's summer camps, educating children on actively growing produce. DPR launched the Communal Farm Program in fiscal year 2021 and the Edgewood Rooftop Farm, Kenilworth, and Lederer now act as city-wide volunteer hubs for residents to learn and practice gardening techniques through DPR's "Growing Guidance Series," as well as acquire fresh produce. Other programs such as the Garden to Table Series and virtual videos encourage residents to make impactful decisions to alleviate food insecurity in the District. Events such as the annual Black Growers Month promote DPR gardens and partners, with the hope of revitalizing the livelihoods of District residents. DPR also successfully launched its first food forest at Edgewood Recreation Center, a plant landscape designed to mimic a forest with edible ground cover, vines, shrubs, and canopies, further adding food opportunities to the community in a harmonious natural space.</p>

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NA3.5: The District Government will incorporate nature into the places we live, play, and work, to reduce stress and improve health – known as biophilic design.	Medium term	DOEE	DGS, DCPS	1	The Department of Energy and Environment (DOEE) has been working with District of Columbia Public Schools and Department of General Services to transform asphalt to ecosystem schoolyards through the RiverSmart Schools Program. In 2020 and 2021, DOEE retrofitted six schoolyard greening sites. To date, DOEE has retrofitted thirty-five public and public charter schoolyard facilities. The program works with District schools to install low impact development practices to reduce runoff and pollution while providing stormwater-related educational resources. It offers District schools technical support, professional development, field trips, community planting events, and assistance with installing green infrastructure practices. Additionally, schools that take part in the RiverSmart Schools program (past and present) will receive teacher training on how to use the sites to teach to curriculum standards and how to properly maintain the sites.
<b>TRANSPORTATION</b>					
<b>Goal 1: Improve connectivity and accessibility through efficient, integrated and affordable transit systems.</b>					
<b>Target 1: By 2032, increase use of public transit to 50% of all commuter trips in all wards.</b>					
TR1.1: Expand high capacity transit on high ridership corridors.	Medium term	DDOT, WMATA		2	District Government agencies and the Washington Metropolitan Area Transit Authority (WMATA) are invested in improving the region’s bus service through the Washington Area Bus Transformation Project. Coordinated action by both the District Department of Transportation (DDOT) and WMATA to date has resulted in bus queue jumps (methods to provide buses priority) in 14 key intersections in DC, five permanent dedicated bus lanes, and a completed final design for transit signal priority corridors in Southeast and Northeast DC. Equity was a key consideration in identifying these corridors and bus routes. Numerous other initiatives for bus priority are currently in the planning phase. These initiatives and pilot projects, implemented in collaboration with local jurisdictions, increase bus reliability and operating speeds for improved rider experience, environmental sustainability, and financial stewardship. In 2021, the Bus Priority Plan was completed and DDOT upgraded the H and I Street NW bus lanes. Six projects were in the planning and design phase with three projects set to start construction in 2022.

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TR1.2: Improve transit connections to employment and activity centers from underserved areas.	Medium term	DDOT	WMATA	2	In 2021, the Washington Metropolitan Area Transit Authority’s (WMATA) Board approved service and fares improvements that support the region’s recovery, encourage more customers to use transit, and advance equity. WMATA developed an all-day frequent bus service network, doubling the number of bus customers enjoying 12-minute frequencies or better, seven days a week, 7:00 a.m. to 9:00 p.m. Additional service improvements include: improved late-night Metrorail service and hours, restored or improved service on additional 46 bus routes beyond the frequent all-day network, increased all day frequency on Metrorail, including weekends, and improved peak time Metrorail service to accommodate return to work and school. Service frequency and fare changes provide major improvements at times and places in our network with higher ridership from people of color and low-income residents. These changes also provide ridership growth opportunities and support regional recovery as more riders return to school, work, and other activities. In addition to WMATA’s changes, the District’s Bus Priority Plan was released and incorporated into the moveDC transit priority network.
TR1.3: Define and secure permanent funding for transit planning and improvements.	Short term	DDOT	EOM	4	The District continues to fund its commitment to the Washington Metropolitan Area Transit Authority. The District Department of Transportation’s Bus Priority Program has secured 22 new full time equivalent staff members and over \$60 million in dedicated funding.
TR1.4: Develop design guidelines to ensure transit systems are resilient to climate change.	Medium term	DDOT	DOEE, HSEMA, WMATA	1	The recent update to moveDC, the District’s multimodal long-range transportation plan, includes a goal to prioritize transportation adaptation to climate change. It calls for the District Department of Transportation to work in partnership to develop guidelines and an action plan for improving the resilience of the District’s transportation network and for increasing preparedness of new and existing transportation infrastructure. The Washington Metropolitan Area Transit Authority (WMATA) initiated the development of a Climate Resilience Strategy as part of its broader resilience program and coordinates with the Homeland Security and Emergency Management Agency on the protection of transit systems in the District. WMATA’s Board of Directors adopted a new Sustainability Vision and eight Sustainability Principles, including building, operating, and maintaining a resilient transportation system.

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TR1.5: Identify and remove the obstacles to families taking transit.	Medium term	DDOT	WMATA	1	The Lab @ DC is partnering with the Washington Metropolitan Area Transit Authority (WMATA), District Department of Transportation (DDOT), and Department of Energy and Environment to conduct a nine-month Low Income Fare Trial to study the impact of discounted transit fare on economic well-being and mobility of low-income individuals. DDOT will be working with WMATA on a redesign of the District’s bus network, including access for families and students. WMATA implemented fare and service changes targeting weekend rail service. WMATA lowered its rail fares on weekends to \$2 for a one-way trip, instead of the previous distance-based fare, making weekend travel more affordable, especially for families. WMATA also increased weekend frequencies, with the aim of making Metro a reliable resource for students and families. WMATA also implemented Mobile pay, a contactless way to pay for Metro and all regional transit providers in the Washington, DC area. Money-saving passes can be purchased in the app and added to SmarTrip, eliminating the need make a special trip to a sales office, rail station, or retail store.
<b>Goal 2: Expand safe, connected infrastructure for pedestrians and cyclists.</b>					
<b>Target 2: By 2032, increase biking and walking to 25% of all commuter trips in all wards.</b>					
TR2.1: Develop and maintain a safe and convenient citywide bicycle lane and trail network.	Long term	DDOT	MWCOG	2	The District Department of Transportation (DDOT) added 7.4 miles of protected bike lanes in 2021, and an additional 3.4 miles of standard bike lanes for a total of 10.8 miles in 2021. The total mileage of bike lanes in the District is now 103 – 24 of which are protected, and 79 unprotected. DDOT’s Urban Forestry Division continues to administer the Trail Ranger program, which is key to ensuring a safe, convenient, and engaging trail network.
TR2.2: Grow the Capital Bikeshare program so that 75% of District residents have access to a station within a quarter mile of their home.	Medium term	DDOT		4	As of early 2022, Capital Bikeshare has 338 stations within DC, putting over 80% of the District's population within a quarter mile of a station.
TR2.3: Increase bike, scooter and pedestrian safety education for drivers, cyclists, and pedestrians and enforce laws protecting those who walk and use scooters and bicycles.	Ongoing	DDOT	MPD, DMV	1	The District Department of Transportation (DDOT) conducts traffic safety education through mass media campaigns including the regional Metropolitan Washington Council of Governments Street Smart Safety Campaign. Locally in the District, this is done through DDOT’s Vision Zero outreach, and the Highway Safety Office’s Road Rules campaign. Both campaigns pair education and enforcement to change roadway user behavior. In 2021, DDOT’s Vision Zero division supported local community groups to conduct traffic safety education and outreach activities. DDOT also partners with the District of Columbia Public Schools and Washington Area Bicyclist Association to conduct bicycle and pedestrian safety education and training to second grade students.

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TR2.4: Collect data to improve understanding of cyclist and pedestrian travel patterns.	Short term	DDOT, OCTO		3	The District Department of Transportation (DDOT) bicycle and pedestrian count data is publicly available on the following website: <a href="https://ddot.dc.gov/page/dc-automated-bicycle-and-pedestrian-counters">https://ddot.dc.gov/page/dc-automated-bicycle-and-pedestrian-counters</a> . DDOT collected manual bike counts at 50 locations in 2020 and 2021 and is exploring putting this information on Open Data DC or a dashboard in the future.
TR2.5: Program crosswalks and traffic lights for improved safety and convenience of pedestrians, prioritizing children, older adults, and people with disabilities.	Short term	DDOT		2	The District has a total of 1,093 intersections with Leading Pedestrian Intervals (signal timing that gives pedestrians the opportunity to enter the crosswalk at an intersection a few seconds before vehicles) and a total of 81 intersections that have undergone Left Turn Traffic Calming improvements. There are 26 intersections with Rectangular Rapid-Flashing Beacons and 26 with High-Intensity Activated Crosswalk Beacon signals. There are a total number of 34 intersections where Dual Turn Conflicts have been mitigated.
TR-2.6: Ensure sidewalks are in good repair on at least 90% of District streets, prioritizing new sidewalk construction in pedestrian priority areas such as schools, parks, transit stops, and retail corridors.	Medium term	DDOT		1	The District Department of Transportation has four Districtwide contracts that are actively repairing sidewalks. The newest is Horizontal Sidewalk Cutting, which essentially shaves trip hazards away. Porous flexible pavement is used around trees where appropriate instead of concrete, and the Safe Routes to School contract has been building new sidewalks around the District.
<b>Goal 3: Enhance affordable, convenient transportation options to reduce dependency on single occupant vehicles.</b>					
<b>Target 3: By 2032, reduce commuter trips made by car to 25%.</b>					
TR3.1: Encourage carpooling and carsharing.	Short term	DDOT	DOEE	1	No new progress.
TR3.2: Encourage private businesses to offer incentives to employees for transit, biking, and walking.	Medium term	DOEE, DDOT, DOES		2	No new progress.
TR3.3: Complete a study to understand the best strategies for reducing congestion for all without unfairly burdening residents with low incomes.	Medium term	DDOT, DOEE	OP	2	The congestion pricing study is on hold pending further analysis of the change in levels of congestion brought on by the public health emergency. Through moveDC, the District's multimodal long-range transportation plan, the District Department of Transportation is committed to pursue a regional partnership to look for regional approaches to congestion management.

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TR3.4: Develop a strategy in response to autonomous vehicles.	Short term	DDOT	DOEE, DPW	4	The District Department of Transportation (DDOT) completed the DC Autonomous Vehicle (AV) Study Report in April 2020. Since then, DDOT has worked to finalize AV strategy regulations and the AV Working Group continued engaging in peer-to-peer learning to explore the implications and potential of autonomous vehicles. The Working Group provided recommendations to the Mayor on ways to address the challenges and opportunities presented by AV technologies in the areas of transportation, safety, environment, land use, education, equity, and inclusivity in November 2021.
TR3.5: Encourage and promote telecommuting and alternative work schedules for District Government employees.	Short term	DCHR	DOEE	4	After working with a team from Deloitte about the Future of Work in early 2021, the DC government reverted to its pre-pandemic telework policy. The Compressed, Flexible and Telework Schedules section of the Electronic District Personnel Manual was last updated in December 2021. It states that the District government offers its employees alternative work scheduling and telework options. Depending on the agency's needs, employees at agencies with established alternative work or telework programs may request the use of compressed work scheduling, flexible work scheduling, or telework.
<b>Goal 4: Reduce greenhouse gas emissions and air pollution from the transportation sector.</b>					
<b>Target 4: Reduce greenhouse gas emissions from transportation by 60%.</b>					
TR4.1: Strictly limit idling engines.	Short term	DOEE	DDOT	2	The Department of Energy and Environment (DOEE) continues to promote its Community Engine Idling Enforcement Pilot Program, which provides opportunities for District residents to assist in improving air quality. Under this program, individuals who would like to report violations of the engine idling regulation use the District of Columbia 311 Mobile App to report and submit information about violations in a manner that will allow for civil enforcement of the regulations. DOEE inspectors have provided guidance on collecting evidence of engine idling and took enforcement action for several engine idling cases based on evidence collected through the Community Engine Idling Enforcement Program.
TR4.2: Require the District Government to purchase green fleet and passenger vehicles.	Medium term	DPW, MPD, OSSE	DDOT, DOEE	2	When an agency requests a vehicle, the Department of Public Works (DPW)'s policy is to offer an electric vehicle within the requested class. DPW pursued options to lease electric vehicles and worked with the Office of Contracting and Procurement to explore further options. DPW continued to research vendors that provide 100% electric equipment. In fiscal year 2021, DPW installed 99 electric charging stations throughout the District and had 30 trash and recycling vehicles that ran on 100% biodiesel.

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TR4.3: Encourage network of electric vehicle charging stations throughout the city.	Medium term	DOEE, DDOT	OP, DFHV, DPW, PSC, WMATA	2	The District is developing a Transportation Electrification Roadmap to guide the city's electric vehicle (EV) infrastructure deployment and the Bipartisan Infrastructure Bill provides \$17 million to the District to deploy EV charging infrastructure. In addition, the "Electric Vehicle Readiness Act," which was signed by the Mayor in 2021 and applies to building permits issued after January 1, 2022, requires that 20% of parking spaces constructed in newly constructed or substantially renovated commercial or multi-unit buildings include EV infrastructure. The District Department of Transportation is working on two major bus garage projects (the South Capitol Bus Facility Improvements and the environmental and preliminary design of the Claybrick Road Bus Facility) that will support electric bus charging capacity and ability to transition the remainder of its diesel vehicles to electric by 2030. The Washington Metropolitan Area Transit Authority (WMATA) will invest in facility and infrastructure upgrades over the coming years to support the introduction of new buses in WMATA's shift to zero-emission technology. WMATA has announced the re-construction of the Northern Bus Garage in DC which will hold 150 clean diesel and hybrid-electric buses (75 of which will be articulated buses). The new garage will include infrastructure needed to support an electric bus fleet in the future and construction is expected to begin in 2022.
TR4.4: Fully electrify District-controlled buses, and work with regional bus systems to reduce regional bus emissions.	Medium term	DOEE	DDOT, OP	2	The Clean Energy DC Act set targets for reducing bus emissions and calls for public buses to transition to zero-emissions by 2045. The District Department of Transportation (DDOT) has committed to exceeding this goal and electrifying its fleet by 2030. DDOT procured 14 additional electric buses in fiscal year 2021 that will be received by the summer of fiscal year 2023 to support the expansion of DC Circulator service to Ward 7. DDOT is preparing to procure 17 additional electric buses at the beginning of fiscal year 2023. The Washington Metropolitan Area Transit Authority (WMATA) is initiating an electric bus Test and Evaluation at Shepherd Parkway Bus Division to inform the future large-scale rollout of a zero-emission fleet. WMATA's Board of Directors adopted the goal of transitioning the Metrobus fleet to 100% zero-emission vehicles by 2045. These goals set out a phased conversion that will begin with the purchase of only lower-emission buses in 2023 so that all new buses entering service by 2030 will be zero-emission buses. The Shepherd Parkway division serves low-income communities on routes in DC, Maryland, and Virginia. The Test and Evaluation will include 12 electric buses with initial bus deliveries expected in late 2022 to early 2023 and analysis completion expected by the end of 2024. In addition, Department of Energy and Environment staff participated in the review of the Medium-Heavy Duty Zero Emission Vehicle Memorandum of Understanding Action Plan, which was signed by 15 states, the District, and Quebec. This includes strategies to electrify buses as well as other heavy-duty vehicles.

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<b>WASTE</b>					
<b>Goal 1: Reduce waste generated per capita in the District.</b>					
<b>Target 1: By 2032, reduce per capita waste generation by 15%.</b>					
WS1.1: Develop a comprehensive Zero Waste plan with the objective of decreasing all citywide waste streams and achieving source reduction goals.	Short term	DPW	DOEE, DPR, DGS, OP	1	The Zero Waste DC Plan was in development as of the fall of 2021, with a goal of finalizing the plan by April 2023. In March 2021, the Department of Public Works released its Desktop Waste Characterization Study, aimed at analyzing municipal solid waste and construction and demolition debris streams and projecting DC's waste generation through 2032 with the goal of diverting 80 percent of solid waste across all sectors by 2032.
WS1.2: Study the feasibility of an equitably priced collection billing structure (like Save-As-You-Throw).	Short term	DPW	DOEE	1	The Zero Waste Omnibus Amendment Act, passed in late 2020, requires the Department of Public Works to study the efficacy of an equitably priced collection billing structure (like Save-As-You-Throw). This study will commence when sufficient funding is appropriated.
WS1.3: Expand current bans and fees on waste products like expanded polystyrene and disposable bags.	Medium term	DOEE	DPW, EOM	2	Effective July 1, 2021, all third-party food ordering platforms and delivery apps that work with District restaurants were required to update their customer-facing platforms as part of the Zero Waste Omnibus Amendment Act. These updates stated that customers must be able to affirmatively request the disposable items they would like included with their order and they must be able to select the specific individual items they would like included with their order, rather than selecting one box in order to have all available disposable items included.
WS1.4: Work with surrounding jurisdictions to develop and implement a regional approach to reducing plastic waste.	Long term	DOEE, DPW	EOM	2	The Chesapeake Bay Program Plastic Pollution Action Team (PPAT) includes the Department of Energy and Environment (DOEE) among its 30 members from states, federal agencies, academia, and nongovernmental organizations throughout the Chesapeake watershed. The Chesapeake Bay PPAT developed a monitoring and science strategy focused on plastic pollution and worked on an ecological risk assessment looking at impacts of plastic pollution (mainly microplastics) on striped bass in the Potomac River. The Chesapeake Principals Staff Committee – comprised of the DOEE Director, cabinet-level appointees from the six states in the watershed, and the U.S. Environmental Protection Agency's Regional Administrator – directed the PPAT to put a greater focus on source reduction. DOEE also participates in the Metropolitan Washington Council of Governments Anacostia Trash Workgroup focused on trash monitoring and reduction efforts in the Anacostia River watershed, as well as the Mid-Atlantic Regional Council on the Oceans Marine Debris Workgroup which shares data and information on local and statewide trash reduction programs among members. DOEE provided technical assistance and coordinated with regional stakeholders to assist a total of five jurisdictions in Virginia to implement bag fees.

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WS1.5: Increase purchases of Environmentally Preferable Products and Services.	Short term	OCP, DOEE		1	The Office of Contracting and Procurement (OCP) added the Environmentally Preferable Products and Services (EPPS) list to a form completed by each agency to prepare its acquisition plan, for quick reference and a reminder for acquisition planning agents to purchase sustainably whenever possible. OCP reviewed over 5,000 such forms in fiscal year 2021, noting all possible opportunities to purchase sustainably, and giving instruction and direction to contracting staff. In addition, a new EPPS staff position is being created based on the Zero Waste Omnibus Amendment Act.
<b>Goal 2: Facilitate local reuse and recovery of materials to capture their economic and social value.</b>					
<b>Target 2: By 2032, reuse 20% of all waste produced in the District.</b>					
WS2.1: Reuse or recycle 50% of all commercial construction waste.	Medium term	DOEE	DPW, DGS, DCRA	2	The 2017 DC Green Construction Code, adopted in May 2020, requires that 50% or more construction waste is diverted for certain construction projects. It also rewards projects that increase diversion to 75% or more.
WS2.2: Reuse 5% of total non-hazardous residential building materials.	Long term	DOEE	DPW, DCRA	1	No new progress.
WS2.3: Develop a greenhouse gas impact calculator for specific waste streams to support the development of a circular economy and guide further policy development.	Short term	DOEE	DPW	1	The District's annual greenhouse gas inventory, the Carbon Free DC modeling, and the Department of Public Works' 2021 Desktop Waste Characterization Study have all created a baseline understanding of the greenhouse gas impact of different waste streams, including organics. Source reduction and a focus on food waste are key strategies for the waste sector in Carbon Free DC, based on both greenhouse gas impact and overall zero waste goals.
WS2.4: Support the development of a locally based, circular economy by facilitating the separation of waste into commodity streams.	Short term	DOEE	DPW	2	The Zero Waste Omnibus Amendment Act of 2020 established the Donation and Reuse Program within the Department of Energy and Environment. The program will have 2.5 full time equivalent staff members (one was hired in 2021), who will partially focus on supporting and expanding the District's reuse infrastructure, including through site donation drop-off, Fix-It events, and non-governmental donation facilities.
<b>Goal 3: Achieve zero waste citywide.</b>					
<b>Target 3: By 2032, achieve 80% waste diversion citywide without the use of landfills, waste-to-energy or incineration.</b>					
WS3.1: Provide District Government-served households with three, right-sized bins for collecting compostable materials, recyclable items, and trash.	Medium Term	DPW	DOEE	1	In 2021, the Department of Public Works (DPW) implemented a new yard waste collection scheme, allowing residents to schedule yard waste to be picked up and composted all year round. In 2022, DPW will develop an Organics Waste Management Plan while continuing to pursue opportunities to support a curbside organics collection program.

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WS3.2: Establish a new organics processing facility (composting, anaerobic digestion, or co-digestion pre-processing) in the District to capture food and other organic waste.	Medium Term	DPW	DOEE, OP, DGS, DC Water	1	No new progress.
WS3.3: Increase the number of co-located (trash and recycling) receptacles that are publically accessible.	Medium term	DPW	DOEE, OP, DPR, DCPL, OP, DGS	1	The Zero Waste Omnibus Act of 2020 requires the Department of Public Works to submit a plan for how to provide recycling infrastructure in the public space, although funding for this initiative is not yet in place. All new Department of Parks and Recreation projects and renovations for parks and recreation centers include standard trash and recycling receptacles. In addition, the opening of the new Southwest Library and reimagined Martin Luther King Jr. Memorial Library streamlined public access to receptacles.
WS3.4 Aggressively enhance educational resources and outreach campaigns that educate residents, workers and visitors on waste minimization, recycling, and composting.	Short term	DPW	DOEE, DPR, DCPL, OP	3	The Department of Public Works (DPW) launched the Multi-Family Zero Waste Guide, among other resources to help apartment buildings, condominiums, and cooperatives deliver recycling programs. DPW also achieved its lowest observed contamination rate in recycling, 11%, through its ongoing education and outreach and Feet on the Street Program. In addition, the Department of Parks and Recreation (DPR) continued to support community compost education and awareness and had over 1,000 residents participate in its Community Compost Cooperative Network in fiscal year 2021. DPR expanded the network and made renovations at Lederer Gardens and Edgewood Farm. DPR actively maintains 46 sites that compost almost 25 tons of organic waste. The Mayor's Office of the Clean City also provided outreach for rodent abatement, waste prevention, and pet waste during Community Meet and Greets in Ward 6 and 8.
WS3.5: Expand Washington, DC's product stewardship program to include additional product streams.	Medium term	DOEE	OP, DGS, DPW	2	A new battery recycling program in development will soon provide more options for residents to recycle their batteries safely and conveniently. This battery program is in addition to the existing programs for recycling paint and certain electronics. The Zero Waste Omnibus Amendment Act of 2020, signed by the Mayor in December 2020, contained a subtitle establishing battery stewardship requirements that became applicable on October 1, 2021. In the last three months of 2021, Department of Energy and Environment staff developed materials to assist regulated entities in complying with the requirements of the law.
WS3.6: Bolster enforcement efforts to ensure that commercially-serviced businesses and multifamily buildings comply with the requirements to provide adequate and timely on-site recycling and trash collection.	Medium term	DPW	DOEE, OP, DPR, DCPL, DGS	2	The Department of Public Works (DPW) developed and released a recycling toolkit for multi-family property managers, janitorial staff, and tenants. DPW's Solid Waste Education and Enforcement Division also conducted 200+ multi-family property in-person inspections to assess compliance rates in the sector.

Progress Key  
0 = Not started; 1 = Initiated; 2 = Some Progress (Completed Once for Ongoing Activities); 3 = Significant Progress; 4 = Completed (or Institutionalized for Ongoing Activities)

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<b>WATER</b>					
<b>Goal 1: Improve the quality of waterways to standards suitable for fishing and swimming.</b>					
<b>Target 1: By 2032, make 100% of District waterways fishable and swimmable.</b>					
WT1.1: Encourage reduced use of personal care products, pesticides, and fertilizers that contain existing and emerging contaminants.	Long term	DOEE	DPW, DC Water	2	The RiverSmart Homes team has developed information and outreach on reducing fertilizer use at home. In 2021, RiverSmart auditors met with 1,415 residents. Each resident was given information about the harmful effects of fertilizer on our waterways and best practices in caring for your lawn without the use of fertilizer.
WT1.2: Create and adopt a salt management strategy for snow and ice removal that minimizes the use of road salt, and study alternatives to reduce Washington, DC's reliance on road salt.	Short term	DOEE, DPW	DDOT, DC Water	2	The Salt Reduction Pilot program from the Department of Energy and Environment (DOEE) and Department of Public Works has been developed and snowplow drivers have been trained. Additionally, Calcium Magnesium Acetate (CMA), which is an eco-friendly form of ice melt, has been purchased and is being stored. DOEE is in the process of purchasing additional CMA to target up to four snow events.
WT1.3: Provide education on how people can reduce stormwater pollution through good housekeeping, vehicle maintenance, proper lawn care, and pet waste management.	Medium term	DOEE		2	The Department of Energy and Environment held a number of outreach events, workshops, and technical assistance throughout the District to highlight stormwater solutions and safe products. An example of this was seen with the GreenWrench Technical Assistance Program which provides free pollution prevention guidance and training to District mechanics and auto body shops. This past year, the GreenWrench Program recruited 90 shops and continued additional outreach is being conducted to enroll others into the program.
WT1.4: Develop and implement an Anacostia River remediation work plan that restores fish and wildlife habitat while improving public access to the river.	Long term	DOEE		2	DOEE has finalized the Anacostia Sediment Remediation Plan and in 2021 issued a grant to a contractor to develop a comprehensive restoration plan for the Anacostia River corridor. The plan will identify opportunities for the restoration of wetlands, living shorelines, and submerged aquatic vegetation beds throughout the river corridor. This plan will help the District identify future federal funding resources for restoration of aquatic habitat, as well as guide potential restoration projects. Additionally, HSEMA continued working with DC Water to build the remaining floodwalls around the Blue Plains Advanced Wastewater Treatment to project.
WT1.5: Increase public access to water quality monitoring data for public waterways and develop partnerships to expand the scope of water quality monitoring.	Medium term	DOEE		3	The Department of Energy and Environment has been working with a contractor to migrate all water quality monitoring data into a database system with the goal of making the database accessible to the public. Additionally, beginning in 2021, the District purchased a solar powered Wi-Fi enabled digital sign to display real-time Anacostia River water quality and other information related to Kingman and Heritage Islands. The sign is currently operating.

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WT1.6: Restore 10 miles of streams in the District.	Long term	DOEE		2	Beginning in 2021, the District advanced restoration designs for significant streams , including a 17,000 foot of stream at Fort Dupont, another 950 foot of stream at Stickfoot Branch, and a 1300 foot of stream at Park Drive. The District continues this work by putting out a design & National Environmental Policy Act (NEPA) compliance solicitation for a 21,000 foot of stream at Oxon Run in Southeast DC.
<b>Goal 2: Reduce the volume of stormwater runoff.</b>					
<b>Target 2: By 2032, implement green infrastructure practices to capture, retain, or reuse stormwater from at least 10% of the District's land area.</b>					
WT2.1: Install and maintain four million new square feet of green roof.	Medium term	DOEE, DGS, DCRA		4	The District completed and surpassed this goal at the end of 2021. Currently, there are over 5.7 million square feet of green roof installed in the District.
WT2.2: Audit 1,200 properties per year via the RiverSmart Homes program and increase participation in areas of the city where enrollment has been historically low.	Ongoing	DOEE		3	In 2021, the District completed 1,415 RiverSmart audits, including 212 audits in Wards 7 and 8. The RiverSmart Homes program and its grantees began prioritizing audits and installations in Wards 7 and 8 to decrease wait times for those participants. Further, a RiverSmart Homes Ambassador program will be piloted to increase participation in historically underserved communities in the coming year.
WT2.3: Incorporate neighborhood-scale stormwater collection into large-scale planning efforts early in the redevelopment process, including public right of way and parks.	Medium term	DDOT	DOEE, DC Water, OP, DPR, DGS	2	The Department of Transportation (DDOT) is creating a stormwater suitability map that analyzes the entire right of way for placement of green and gray infrastructure. The Department of Energy and Environment (DOEE), DDOT, and the Department of Parks and Recreation (DPR) have been working collaboratively to design, permit and install a neighborhood scale stormwater retrofit along the 2000 block of Hamlin St. NE and into Langdon Park. Additionally, the District plans to design and implement an innovative blue-green stormwater management approach in the Southwest DC neighborhood, which is prone to flooding from storm surge, tidal flooding, and heavy rain events. With this project, the District analyzed the area and calculated the potential frequency, volume, and impacts of flooding.
WT2.4: Grow the District's Stormwater Retention Credit Trading program.	Short term	DOEE		2	The Stormwater Retention Credit (SRC) Trading program has incentivized Green Infrastructure (GI) projects that have retrofitted over 24 acres of unmanaged area in the Municipal Separate Storm Sewer System (MS4) sewershed, with an additional four-plus acres of retrofit under construction and 10 additional acres in the design process. The District continues to refine the program to increase the demand for High-Impact SRCs, credits that do the most to protect the Anacostia and Potomac Rivers.

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WT2.5: Streamline and coordinate incentive programs for combined green roofs and solar projects.	Short term	DOEE	DCRA	2	Beginning in 2021, the Department of Energy and Environment's (DOEE) Green Roof Rebate Program began an outreach campaign to potential clients with larger roof areas. Additionally, DOEE worked with the DC Green Bank to discuss offering financial incentives to applicants who are interested in combination projects. Further, DOEE met with a Green Roof/Solar combination vendor and provided technical feedback regarding the stormwater guidebook requirements for installation. Finally, the River Point, a large solar/green roof combination was installed in SW DC in 2021 which is comprised of 32,650 square feet of green roofing and a 140-kWh system.
WT2.6: Pilot a large scale network of green infrastructure with smart controls to better understand performance and inform future project designs.	Medium term	DOEE	DGS	2	RiverSmart Washington (RSW) is a long-term demonstration project of the Department of Energy & Environment (DOEE) in partnership with Department of Transportation (DDOT), and DC Water. The goal of the project is to intensely apply distributed microscale green stormwater infrastructure (GSI) practices across a pair of developed urban sewer sheds, to understand the cumulative ability to capture and treat stormwater, through monitoring and modeling. The District is now developing a unified model where one agency, DOEE, is charged with the maintenance of the District's GSI.
<b>Goal 3: Reduce demands for potable water and increase rainwater reuse.</b>					
<b>Target 3: By 2032, decrease per capita potable water use by 20%.</b>					
WT3.1: Update the District building codes to increase water-efficiency standards and allow the use of alternative water systems.	Medium term	DCRA	DOEE	3	RiverSmart Washington (RSW) is a long-term demonstration project of the Department of Energy & Environment (DOEE) in partnership with Department of Transportation (DDOT), and DC Water. The goal of the project is to intensely apply distributed microscale green stormwater infrastructure (GSI) practices across a pair of developed urban sewer sheds, to understand the cumulative ability to capture and treat stormwater, through monitoring and modeling. The District is now developing a unified model where one agency, DOEE, is charged with the maintenance of the District's GSI.
WT3.2: Develop incentives for water-efficiency measures in landscaping and buildings.	Long term	DOEE	DCRA, DC Water	0	No new progress.
WT3.3: Pilot water efficiency projects in the District Government to lead by example.	Short term	DGS	DOEE, OCTO	1	The Department of General Services continued development of the Strategic Energy Management Plan (SEMP), anticipated to be released in 2022 and periodically updated thereafter. The SEMP will guide the city's efforts to reduce energy use at public buildings, including providing a site selection framework for the implementation of the Energy Savings Agreement Pilot, which will allow energy service providers to identify and implement energy and water efficiency upgrades.

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<b>Goal 4: Ensure safe, accessible drinking water.</b>					
<b>Target 4: By 2032, ensure 100% of District residents have access to clean, affordable drinking water.</b>					
WT4.1: Identify and implement the most effective steps to improve the resilience of the drinking water system to natural and human disasters.	Medium term	DC Water, DOEE	HSEMA, EOM	2	DC Water collaborates with the Metropolitan Washington Council of Governments (MWCOG) and regional water systems to identify and prioritize water source resilience strategies, including coordinated efforts to obtain federal funding to improve drinking water resilience.
WT4.2: Eliminate all lead service lines and plumbing from District Government-owned buildings.	Long term	DGS	DC Water	1	As District buildings are modernized, lead service lines are replaced by DC Water. However, there has been no significant change to this action in the past year.
WT4.3: Replace at least 1% of water pipes each year.	Ongoing	DC Water		1	While DC Water has made advances towards replacing at least 1% of water pipes each year, the negative impact of COVID-19 on revenue along with other factors, have impeded their ability to achieve the goal of replacing 1% of our small diameter water mains. DC Water replaced 3.3 miles in 2020 and 4.8 miles in 2021. In 2022-2023, DC Water is scheduled to replace approximately 11.5 miles. DC Water is pursuing Federal Infrastructure Bill funds to keep the program on track. DC Water released the Lead-Free DC Plan in June 2021 which outlines its phased plan to eliminate all lead service lines by 2030.
WT4.4: Work with the Washington Aqueduct to ensure that the District’s drinking water is of the highest possible quality by protecting source water, addressing emerging contaminants, and upgrading drinking water treatment processes.	Long term	DC Water		1	DC Water continued to advance efforts with the regional water systems, United States Geological Survey (USGS), and Metropolitan of Washington Council on Governments (MWCOG) to install water quality monitors upstream of water intakes to provide early warning contamination detection. The Washington Aqueduct hired additional engineering and operations staff. DC Water worked closely with the Washington Aqueduct regarding the Capital Improvement Plan (CIP) budget, planning, and forecasting to ensure that DC Water can meet the financial needs for their CIP.