



SUSTAINABLE DC



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DC



Letter from Mayor Muriel Bowser



Every District resident deserves a fair shot for a healthy and prosperous life in our city.

You deserve to live in an affordable, healthy home that you can keep warm in the winter and cool in summer. You deserve to get to work or school on reliable, convenient transit. And you deserve to walk, bike, or drive on safe streets.

Our residents deserve the opportunity to buy healthy food and have open green spaces in their own neighborhoods. And in a time of a rapidly changing climate, you deserve to know you are protected from extreme heat, rising water levels, and severe storms.

In short, we all deserve a Sustainable DC. That is why I am strengthening the District's commitment to sustainability.

I have consulted with experts from across the globe—and in our own neighborhoods—to develop bold new programs and policies. I have hired the best and brightest leaders to innovate and implement. And I am making the District Government a model of the change we wish to see in others.

We are just getting started, but we've already seen impressive results. We installed smart systems in our buildings and are replacing old, energy-intensive equipment with new, efficient models. We are investing in renewable energy. Last summer, we

made the largest purchase of wind energy by a U.S. city, and we are installing solar on 34 government building rooftops. I am proud to say that 35-40% of our power now comes directly from renewable sources, which will save the District \$40 million over the next twenty years.

The District of Columbia is taking sustainability very seriously, but we cannot do it alone. It will take our entire community to keep DC on the leading edge in the fight against climate change. I encourage you to see what changes you can make—either personally, or through your workplace—to improve the health of your community. And I invite you to join me in taking ten actions for a greener and healthier District of Columbia at www.sustainabledc.org/taketen.

Together, we will create a more Sustainable DC.

Sincerely,

Muriel Bowser
Mayor

We all deserve a Sustainable DC. That's why I am strengthening the District's commitment to sustainability.

- Mayor Muriel Bowser



Summary

When Sustainable DC was released three years ago, it was regarded as ambitious and perhaps even overly aggressive by some. So much can change in three short years. While still ambitious, the question we hear most frequently now—by governments, businesses, major institutions, and residents alike—is “What can I do to make sure we reach Sustainable DC’s goals?” And they are taking action. Here are just a few highlights of impressive work being done in support of a more Sustainable DC. For more inspirational stories, sign up for our newsletter at www.sustainabledc.org/signup.

DISTRICT GOVERNMENT

- Over a dozen sustainability staff members joined District Government this past year, spearheading new projects and breaking down silos across the city.
- Over 4,500 District employees provided valuable insight on how best to improve the environmental performance of District Government via the [greening government assessment](#).
- Specific, detailed plans like the [Comprehensive Energy Plan](#), [Wildlife Action Plan](#), and [Healthy People 2020](#) are being created to determine how precisely we can reach Sustainable DC’s targets.

COMMUNITY PARTNERS

- Eight universities, 81 international institutions, and 21 healthcare providers have signed sustainability pledges, while 169 businesses have joined the Smarter DC Challenge to green their operations.
- Five winners took home a District Sustainability Award this year:
 - The University of the District of Columbia’s College of Agriculture, Urban Sustainability and Environmental Sciences (CAUSES) runs a farmers’ market to bring local produce, artisanal products, cooking demonstrations, and nutrition education to District residents, and maintains a 20,000

square foot green roof on campus that promotes urban food production, energy efficiency, and stormwater runoff reduction.

- [Mess Hall](#) is a culinary startup incubator and resource center that has enabled the creation of 23 businesses and the growth of 13 others, 80% of which are owned by minorities and/or women.
- [Optoro](#), a technology company, connects returned and excess retail goods with customers, extending products’ lifespans and keeping them out of landfills.
- [Generali Real Estate](#) and [Cushman & Wakefield](#) developed the highest-rated ENERGY STAR® certified building in the District, the Farragut Building.
- [The Royal Danish Embassy](#) has been a strong partner in urban sustainability through leading by example and organizing a partnership between the District and the City of Copenhagen.

RESIDENTS

- 45 volunteer ambassadors, representing all eight wards, encouraged family, friends, and neighbors to be more sustainable and to participate in environmental financial incentive programs.
- Over 900 individuals and families are participating in the [POWER DOWN DC](#) challenge to lower their energy and water consumption over the course of six weeks.
- For more information on what you can do to create a more Sustainable DC, visit www.sustainabledc.org/taketen.

PROGRESS HIGHLIGHTS

- 80% of the 143 actions in the Sustainable DC Plan are underway and another 15% are complete. This is an increase from only 8% complete on Earth Day 2015.



JOBS & THE ECONOMY



HEALTH & WELLNESS

Improving the economy by creating new, good-paying jobs and supporting local entrepreneurs in sustainable industries is a core element of a sustainable city. While there is still much work to be done to help those most in need, the District's unemployment rate is decreasing, new businesses are opening their doors in all eight wards, and the city's \$11.50 minimum wage will put the District in the top five cities for hourly pay.

OUR PROGRESS

- The **Smarter DC Challenge** has enrolled 169 businesses and commercial buildings (including the West Wing of the White House!) that have completed over 1,900 actions, including purchasing green materials, promoting employee health, and conserving energy and water.
- **DC Water** and the **Water Environment Federation** created a National Green Infrastructure Certification Program to foster good-paying jobs installing, inspecting, and maintaining green infrastructure.
- During the summer of 2015, the **Department of Energy & Environment** provided a six-week hands-on green job training program to over 250 youth through the **Green Zone Environmental Program**.
- The **Department of Small & Local Business Development** developed a guide to help the city's restaurants adopt green business practices, including minimizing waste and conserving energy.
- The **Department of Consumer and Regulatory Affairs** also created a guide that provides small business owners with step-by-step instructions on obtaining a business license and permit; in partnership with the **Mayor's Office of Asian and Pacific Islander Affairs**, it was translated into Chinese, Korean, Vietnamese, and Urdu.
- **Think Local First** and the **Department of Small & Local Business Development** launched a new program, **Made in DC**, to promote and support local businesses that design, produce, or assemble products in the District.

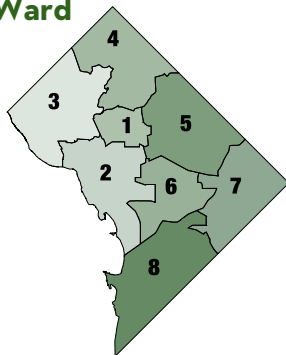
District Government is working to inspire healthy, active lifestyles for all residents, renewing its commitment to making healthy foods, safe recreation spaces, and quality healthcare accessible to all residents in every neighborhood across the District.

OUR PROGRESS

- The **Department of Health** established an **Office of Health Equity** to work with agencies and community partners to address the root causes of health disparities.
- **DC Healthy People 2020** established 160 population health outcome objectives and strategies to improve the health of District residents.
- The **Joyful Markets** program brought cooking demonstrations, music, and 23 pounds of free produce and dry goods for every child in 10 elementary schools in Wards 5, 7, and 8 thanks to a partnership with **Martha's Table** and the **Capital Area Food Bank**. At some markets, the **Children's National Medical Center** and **Georgetown University** staffed an "Ask the Doc" booth on health topics, including annual checkups, asthma, sleep, and mental health.
- **FitDC**, a citywide nutrition and physical fitness program run by the **Department of Parks and Recreation** and the **Department of Health**, launched the **Billion Steps Challenge**, in which 750 residents participated in neighborhood walks and outdoor fitness classes.
- More than \$350,000 of locally-sourced produce was sold to low-income residents at 53 farmers' markets, made possible by the **Produce Plus Program**, a partnership between **DC Greens**, the **DC Farmers' Market Collaborative**, and the **Department of Health**.

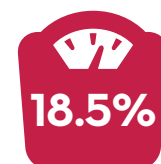
2015 Unemployment by Ward

Ward 1: 4.5%	(↓0.9% from 2014)
Ward 2: 4.3%	(↓0.5% from 2014)
Ward 3: 4.0%	(↓0.6% from 2014)
Ward 4: 5.7%	(↓1.2% from 2014)
Ward 5: 7.9%	(↓1.4% from 2014)
Ward 6: 5.2%	(↓1.0% from 2014)
Ward 7: 11.0%	(↓2.0% from 2014)
Ward 8: 14.2%	(↓2.1% from 2014)

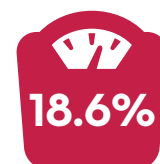


2032 Goal: 4.6% in Every Ward

YOUTH OBESITY RATES



2012-2013



2013-2014



2014-2015

2032 Goal: 11%



EQUITY & DIVERSITY



CLIMATE & ENVIRONMENT

A sustainable city must also be an equitable city. The District continues to invest in affordable housing, public education, and assistance programs for vulnerable populations while increasing transparency and training District Government staff on bias reduction and cross-cultural communication.

The District is already seeing the effects of climate change: higher temperatures, more frequent and severe storms, and rising tides. While the city continues to cut its greenhouse gas emissions, we are also taking steps to prepare for and adapt to a changing climate.

OUR PROGRESS

- District Government yielded 3,113 affordable housing units as part of 72 affordable housing projects in Fiscal Year 2015.
- 137 solar panels were installed on the roofs of low-income households through the Department of Energy & Environment's Solar Advantage Plus Program. The program will likely be expanded through the Affordable Solar Program, with a goal of completing 140 additional homes by the end of 2016.
- The District Department of Transportation is launching the Capital Bikeshare Community Partners program to make low-cost bike share memberships and bike education available through community service providers throughout the city.
- Staff from the Department of Energy & Environment joined four other District agencies as members of the Office of Human Rights' Equity and Inclusion Working Group to conduct workshops in bias reduction, managing inter-group conflict, cross-cultural communication, and broader equity and identity issues.
- An Environmental Literacy Specialist joined the Office of the State Superintendent of Education to implement an environmental literacy program and provide schools with environmental education training and technical assistance.
- The Department of Energy & Environment hired an Equity and Community Engagement Specialist to better incorporate equity into programs and broaden community engagement.

OUR PROGRESS

- Citywide, the District emitted 2.3 million fewer tons of carbon in 2013 than in 2006, equivalent to the amount of carbon emitted by powering 214,893 homes for a year. The District was one of the first 11 global cities to fully comply with the Compact of Mayors, an international agreement among 483 cities to reduce greenhouse gas emissions, track progress, and prepare for the impacts of climate change.
- The District's first citywide climate adaptation plan is being drafted and will be released later this year by the Department of Energy & Environment to evaluate the vulnerability of the District's neighborhoods and identify opportunities to make the city more resilient in the future.
- Picture This: A DC Climate Photo Contest, coordinated by Department of Energy & Environment, ArtReach, and other partners, illustrated challenges of and solutions to climate change through the eyes of District residents. Four winners were selected from 31 submissions; the winning photos were exhibited at THEARC and will travel around the city.
- In conjunction with cities around the world, the George Washington University hosted a District Climathon. With support from the Department of Energy & Environment and the Department of Public Works, the winning team, food x change, traveled to the United Nations climate summit in Paris and placed third in the international competition.

TALKED ABOUT SUSTAINABILITY WITH



**18,000
PEOPLE**

2032 Goal: 650,000 People

GREENHOUSE GAS EMISSIONS DOWN



2006-2013

2032 Goal: 50% Reduction



BUILT ENVIRONMENT

As the District's population continues to grow, we are increasing the vibrancy and walkability of our neighborhoods while also working to grow responsibly and equitably. With ongoing new construction, the District is setting high standards for environmental performance in new buildings while developing programs to help owners of existing buildings and homes to improve their buildings' performance.

OUR PROGRESS

- For the second year in a row, the metropolitan Washington area is leading the country in the number of ENERGY STAR-certified buildings, with **686** certified buildings.
- The District hosted **Greenbuild**, the world's largest conference on green buildings, gathering over **19,000** attendees and **550** exhibitors to celebrate and learn to create a more sustainable built environment.
- The Southwest Waterfront Small Area Plan, the West Virginia Avenue Public Works Campus Master Plan, and **six** other neighborhood plans under development by the **Office of Planning** incorporate core Sustainable DC principles from transit and walkability to stormwater management and neighborhood parks.
- The **Department of Energy & Environment's Property Assessed Clean Energy (PACE)** program reached **\$1 million** in deep energy retrofit financing with its latest project to renovate Shaw's **Phyllis Wheatley YWCA Center**, the first multifamily affordable mixed-finance property in the country to be approved for PACE financing.
- The **Department of Consumer and Regulatory Affairs** received the national 2015 Standard Bearers Award for their Green Building Division's innovation and leadership in the enforcement of the District's energy code.
- Accessory dwelling units**, additional complete living spaces separate from principal dwelling units (such as English basements or apartments over garages) are now permitted in most low-density residential areas of the District.



ENERGY

The District is doubling down on its commitment to increase the energy efficiency of District buildings—especially for low-income residents—and to increase the proportion of clean, renewable sources like wind and solar. At the same time, we're planning to increase the resilience of our systems in preparation for a changing climate.

OUR PROGRESS

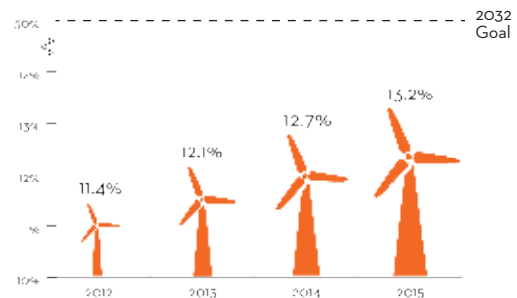
- The **Department of General Services** will boost District Government's total solar power generation by **70%** by installing solar on the roofs of **34** District-owned buildings. Projected to create **140** jobs, installation on the first five sites is underway.
- Between the **11.4** megawatts of solar power systems the **Department of General Services** is installing and the **46** megawatts of power purchased from a regional wind farm—the largest wind power purchase agreement of its kind by a U.S. city—**35 to 40%** of the electricity used by District Government will come from renewable energy.
- In 2015, the District added **800** small generator systems to the grid. A **54%** increase over 2014 installations, these systems will generate an additional **9.37** megawatts of renewable energy.
- DC Water's** innovative **10** megawatt anaerobic digester at Blue Plains Advanced Waste Water Treatment Plant produces enough energy to power **100 million** vehicles miles traveled.
- The **Department of Energy & Environment** and the **DC Sustainable Energy Utility** invested approximately **\$23 million** in energy efficiency and renewable energy services, yielding more than **\$92 million** in lifetime energy savings for residents and businesses.
- Using Passive House criteria, **36** apartments in the **Weinberg Commons** complex were retrofitted to maximize energy savings, making it the first multifamily retrofit of its kind in the U.S.

59% OF NEIGHBORHOODS
ARE WALKABLE



2032 Goal: 90%

**Percent of Community Power
Consumption From Renewable Resources**



2032 Goal: 50%



FOOD

By supporting and expanding land for urban agriculture, growing the market for locally-sourced foods, and working with partners to increase healthy food in every neighborhood, the District is moving toward a more sustainable food supply.

OUR PROGRESS

- The District named its first **Food Policy Director**, who will work with the **Food Policy Council**, local agencies, and community partners to coordinate citywide efforts to address food access, support local businesses and agriculture, and provide education on healthy food.
- **1,000** volunteers helped break ground on the **East Capitol Urban Farm**, transforming **DC Housing Authority**-owned land into a community space to grow nutritious food for Ward 7 residents. Managed by the **University of the District of Columbia's Center for Sustainable Development**, the space will also be home to community garden plots, a playground, a nature trail, and community art space.
- The **Office of the State Superintendent of Education** supported the establishment of **16** new school gardens. A total of **103** schools across the District now have access to a school garden.
- **Five** food incubators supporting local businesses contributed to the growth of the District's economy by offering production and kitchen space, as well as a market for locally-sourced products like meat and produce. **Union Kitchen's** two spaces have served **112** District businesses since 2012.
- With **2,600** community garden plots, the District leads the country in the most plots per capita. Last year, the **Department of Parks and Recreation** completed **27** new gardens plots and hosted **108** gardening classes.



NATURE

Despite being a major urban center, the District's forests, meadows, waterways, and wetlands provide habitat for thousands of species of birds, fish, mammals, reptiles, amphibians, and invertebrates. The District continues to protect this wildlife while simultaneously working to increase resident access to parks and other green spaces.

OUR PROGRESS

- For the first time in nearly 70 years, a mated pair of bald eagles, dubbed "Mr. President" and "Mrs. First Lady," returned to the **National Arboretum** to nest. Over **11 million** public viewers worldwide watched live solar-powered camera footage as **two bald eaglets** hatched from the nest in March 2016.
- The **Department of Energy & Environment** released a comprehensive update to the District's State Wildlife Action Plan, the 10-year wildlife conservation strategy for the District. The plan was updated thanks to input from technical advisory groups, stakeholders, sister agencies, and the public.
- In December 2015, the **Department of Energy & Environment** and the **District Department of Transportation** hosted the first Tree Summit and launched **Canopy 3,000**, a public-private partnership tasked with developing a plan for planting an additional **3,000** trees in the District in 2016.
- Nearly **\$750,000** for tree planting—in schoolyards, parks, public spaces, and on private property—was announced by the **Department of Energy & Environment** to increase the city's canopy cover.
- Over **60** volunteers from **Sustainable DC** and the **Rock Creek Conservancy** spent Martin Luther King, Jr. Day helping to restore a section of the Soapstone Valley trail in Rock Creek Park.

56% OF RESIDENTS
ARE FOOD SECURE



2032 Goal: 75%



14,700
TREES
PLANTED

Goal: 10,850 Annually



37%
TREE CANOPY
COVER

2032 Goal: 40%



TRANSPORTATION

The District continues to increase the safety and convenience of biking, walking, and riding public transit by prioritizing pedestrian safety, connecting critical bike infrastructure, and investing in transit infrastructure. This past year, the District Department of Transportation provided new public transit options by opening the DC Streetcar, providing a National Mall Circulator bus route, and adding bus-only road lanes.

OUR PROGRESS

- The District was tied for **first** in the country for walking and biking to work by the Alliance for Biking and Walking.
- With **900** new bikes from the **District Department of Transportation, DC Public Schools** is now teaching every second grader to ride a bike.
- The **2.4-mile** H/Benning streetcar line opened in February 2016, marking the first time streetcars have run in the District since 1962.
- The **District Department of Transportation** launched the **Vision Zero Initiative** to ensure that by 2024, the District will reach zero fatalities or serious injuries to travelers of our transportation system through better education, enforcement, and engineering. The initiative involves over **25** District agencies in improving street safety.
- There are now nearly **1,000** bike racks in downtown's 138-block area after a three-year effort by the **DowntownDC Business Improvement District** and the **District Department of Transportation**.
- The **Washington Metropolitan Area Transit Authority** released their sleek new 7000 series cars with LCD map displays to allow customers to easily track their location and LED screens that provide current and upcoming station information.
- **DC Public Schools** students are now able to ride Metrobus and Metrorail free thanks to **Mayor Muriel Bowser**.



WASTE

The District has invested in staff and planning around sustainable materials management and has partnered with private sector players to reduce the amount of waste generated, create new opportunities to reuse resources, and increase the proportion of materials we recycle or compost.

OUR PROGRESS

- The expanded polystyrene (foam) ban took effect on January 1, 2016. More than **360** businesses received information on alternative products thanks to the **Department of Energy & Environment's** door-to-door outreach campaign.
- The **Office of Waste Diversion** opened in the **Department of Public Works** with **three** new employees to lead waste diversion initiatives in the District.
- **28** compost cooperatives are helping reduce waste through the **Department of Parks and Recreation's** Community Composting program.
- Instead of sending food waste to a landfill or incinerator, **DC Public Schools** diverted **252** tons of organic waste to a composting facility. **Twelve** schools participated in **DC Reduce First! Lunch Edition Challenge** in March 2016 by measuring waste totals and taking action to reduce the amount of uneaten food sometimes thrown away.
- The **Department of Energy & Environment** is actively developing paint and electronic products stewardship programs, which will launch fully over the next year.
- Building on the success of the District's first waste summit in 2015, **Path to Zero Waste**, the **Department of Public Works**, the **Department of Energy & Environment**, the **Office of the Clean City**, the **Office of Planning**, and the **Department of General Services** will host a second summit convening in May 2016 targeting organic waste reduction. On the same day, a **Feeding the 5,000** event will highlight opportunities to reduce food waste and hunger in the District.

56% OF COMMUTER TRIPS
BY BIKE, WALKING,
OR TRANSIT



2032 Goal: 75%

28 COMMUNITY COMPOST
COOPERATIVES





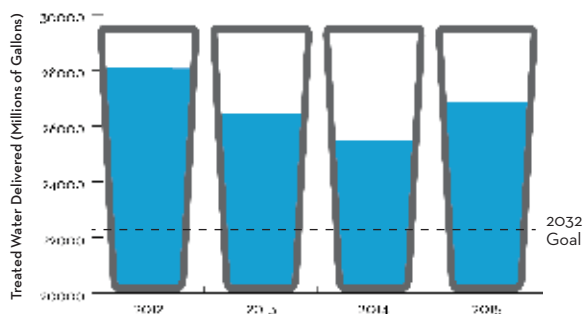
WATER

While challenging, restoring our waterways to fishable and swimmable standards is a major focus for the District. Fortunately, the District is at the forefront of implementing innovative technologies and programs to clean our waterways and better manage our stormwater throughout the city.

OUR PROGRESS

- The District reached **2.6 million** square feet of green roofs, installing **30,000** square feet in 2015, which was incentivized by the [Department of Energy & Environment's](#) green roof rebate program.
- [DC Water](#) launched the [Green Infrastructure Challenge](#) to generate creative ideas from design and construction firms on how to make the District greener while decreasing polluted stormwater runoff.
- **8,255,776 square feet** of impervious surface was made pervious in the District in 2015, of which **322,593 square feet** was achieved through the [Department of Energy & Environment's RiverSmart](#) incentive programs.
- The [Anacostia River Explorers](#) program, a new initiative funded by the [Department of Energy & Environment](#), offers area residents of all ages the opportunity to engage directly with the Anacostia River and local wildlife through free, guided boat tours.
- In June 2015, the [Department of Energy & Environment](#) hosted a series of **four** community meetings focused on restoring the District's waterways, including cleaning the Anacostia River's sediment, called [Reclaiming Our Rivers](#).

Community Water Consumption



2032 Goal: 40% Reduction



This chart lists progress made on all 143 actions in the Sustainable DC Plan. For more details on the progress of an individual action, please visit www.sustainabledc.org/planprogress. A list of acronyms can be found at www.sustainabledc.org/acronyms.

PROGRESS KEY

- ● ● ● Not started
- ● ● ● Initiated
- ● ● ● Moderate progress
- ● ● ● Significant progress
- ● ● ● Complete

ACTION	TIME FRAME	LEAD AGENCY	PROGRESS
GOVERNANCE			
Goal 1: Expand District Government leadership to implement the Sustainable DC Plan.			
1.1 Dedicate District Government staff and funding to implement the Sustainable DC Plan, track progress, and make results publicly available.	Short	EOM	● ● ● ●
1.2 Implement a process to collect, analyze, and report data to ensure progress toward goals and targets by prescribed dates.	Short	EOM	● ● ● ●
1.3 Identify existing laws, regulations, and policies that conflict with sustainability goals and areas where new authority is required.	Short	EOM	● ● ● ●
1.4 Expand public/private collaboration to meet sustainability goals.	Short	EOM	● ● ● ●
1.5 Expand sector-based sustainability pledges and challenges to promote adoption of sustainable practices.	Short	EOM	● ● ● ●
1.6 Continue annual "Budget Challenge" competition for innovative sustainability projects within District Government.	Medium	EOM	● ● ● ●
JOBS & THE ECONOMY			
Goal 1: Grow and diversify DC's business sectors for sustained economic prosperity.			
1.1 Complete a review of regulatory reform options to make it easier to do business in the District.	Short	DCRA	● ● ● ●
1.2 Formally recognize corporations that meet independent social and environmental performance standards.	Medium	DCRA	● ● ● ●
1.3 Use anchor institutions to create local markets for sustainable enterprises.	Medium	OCP	● ● ● ●
Goal 2: Expand the number and range of jobs available to District residents and ensure access to new jobs through appropriate skills training.			
2.1 Improve integration of sustainable jobs training into school curricula to expose schoolchildren to new careers.	Short	OSSE	● ● ● ●
2.2 Partner with the Workforce Investment Council to develop targeted workforce development strategies.	Short	DOES	● ● ● ●
HEALTH & WELLNESS			
Goal 1: Inspire healthy, active lifestyles for all residents, regardless of income, ability, or employment.			
1.1 Expand public park access and programming to promote healthy lifestyles through physical exercise.	Short	DPR	● ● ● ●
1.2 Invest in a public health campaign to promote the benefits of healthy eating and active living.	Short	DOH	● ● ● ●
Goal 2: Create safe environments that are conducive to healthy living.			
2.1 Develop a "Healthy by Design" program for new affordable housing projects, with priority focus in low-income and underserved neighborhoods.	Medium	DCHA	● ● ● ●
2.2 Complete a feasibility study to understand the environmental, economic, and social barriers to healthy lifestyles that are specific to the District.	Short	DOH	● ● ● ●
EQUITY & DIVERSITY			
Goal 1: Ensure that all school-age children in the District are educated in sustainability and prepared for a changing green economy.			
1.1 Modernize all public school buildings.	Medium	DGS	● ● ● ●
1.2 Increase the quality and number of Early Childhood Development Centers.	Short	DME	● ● ● ●
1.3 Launch the implementation of the Environmental Literacy Plan (ELP) in school curriculum.	Short	DDOE	● ● ● ●
Goal 2: Ensure transparency in the District's sustainability agenda including future plans and past progress.			
2.1 Reach community members in their daily lives with sustainability information.	Short	DDOE, OP	● ● ● ●
2.2 Feature the actions and impacts of residents and local community leaders in public sustainability campaigns.	Short	DDOE	● ● ● ●
CLIMATE & ENVIRONMENT			
Goal 1: Minimize the generation of greenhouse gas emissions from all sources.			
1.1 Create online tools that allow people to view and share greenhouse gas emissions data and make more informed choices.	Short	DDOE	● ● ● ●
1.2 Create financial tools that support climate protection programs by capturing the environmental costs of products and services.	Short	DDOE	● ● ● ●
1.3 Report District emissions on a regular basis to track the reductions that can be attributed to specific initiatives.	Short	DDOE	● ● ● ●
Goal 2: Advance physical adaptation and human preparedness to increase the District's resilience to future climate change.			
2.1 Evaluate the vulnerability of the District's energy infrastructure to the anticipated impacts of climate change.	Short	DDOE	● ● ● ●
2.2 Prepare District emergency services to respond to severe climate-related events such as extreme heat, storms, and flooding.	Medium	HSEMA	● ● ● ●
2.3 Require adaptation solutions as part of planning consent for new developments.	Medium	OP	● ● ● ●
2.4 Ensure transportation infrastructure can withstand the upper ranges of projected climate change impacts.	Long	DDOT	● ● ● ●
BUILT ENVIRONMENT			
Goal 1: Increase urban density to accommodate future population growth within the District's existing urban area.			
1.1 Increase affordable housing in the District.	Long	EOM	● ● ● ●
1.2 Expand brownfield redevelopment incentives and certification programs.	Long	DDOE	● ● ● ●
1.3 Reduce required parking minimums and restrict surface parking for large developments.	Short	OP	● ● ● ●
1.4 Modify zoning regulations to allow accessory dwellings such as apartments over garages or in basements.	Short	OP	● ● ● ●
Goal 2: Develop active and vibrant neighborhoods to create new economic opportunity and support a high quality of life.			
2.1 Ease permitting requirements for temporary arts, community, and business uses.	Short	DCRA	● ● ● ●
2.2 Create a government-backed revolving loan fund to support new businesses with a priority for those developed by District residents.	Medium	DSLBD	● ● ● ●
2.3 Convert five vacant buildings into permanent cultural or business incubation centers.	Long	DMPED	● ● ● ●
2.4 Triple the number of Live Near Your Work grants.	Medium	OP	● ● ● ●
2.5 Locate new affordable housing in walkable neighborhoods.	Long	DHCD	● ● ● ●
2.6 Implement the Southwest EcoDistrict Initiative and Maryland Avenue Small Area Plan.	Long	OP	● ● ● ●
Goal 3: Improve the sustainability performance of existing buildings.			
3.1 Rehabilitate all public housing to be green, healthy, and capable of meeting net-zero energy standards.	Long	DCHA	● ● ● ●
3.2 Eliminate environmental health threats such as mold, lead, and carbon monoxide in at least 50% of the District's affordable housing.	Medium	DDOE, DHCD	● ● ● ●
3.3 Expand existing programs to train 100 District residents in the latest green construction skills.	Medium	DOES	● ● ● ●
3.4 Build public-private partnerships to expand best practices for building operations and maintenance.	Long	DGS	● ● ● ●

ACTION	TIME FRAME	LEAD AGENCY	PROGRESS
3.5 Retrofit and modernize all public buildings to at least the LEED Gold standard or equivalent green building certification.	Long	DGS	● ● ● ●
Goal 4: Ensure the highest standards of green building design for new construction.			
4.1 Update the Green Building Act to require higher levels of LEED certification.	Medium	DDOE	● ● ● ●
4.2 Provide incentives for new building projects to achieve at least the LEED Gold standard certification or equivalent.	Medium	DMPED	● ● ● ●
4.3 Incorporate best practice sustainability principles into neighborhood planning.	Short	OP	● ● ● ●
4.4 Adopt the latest green construction codes for all new construction and major renovations.	Short	DCRA	● ● ● ●
4.5 Require all new buildings to be net-zero or net-positive.	Long	DDOE	● ● ● ●
ENERGY			
Goal 1: Improve the efficiency of energy use to reduce overall consumption.			
1.1 Require building energy audits and disclosure of energy performance.	Long	DDOE	● ● ● ●
1.2 Establish Minimum Energy Performance Standard for buildings, phased in by building size.	Long	DDOE	● ● ● ●
1.3 Replace all street and public lighting with high-efficiency fixtures.	Short	DDOT	● ● ● ●
1.4 Fund \$500 million of renewable energy and efficiency retrofits.	Medium	DDOE	● ● ● ●
1.5 Complete a Comprehensive Energy Plan by 2014.	Short	DDOE	● ● ● ●
1.6 Launch a citywide educational campaign to lower citywide energy use.	Short	DDOE	● ● ● ●
Goal 2: Increase the proportion of energy sourced from clean and renewable supplies.			
2.1 Introduce legislation to reduce fossil fuel-based power use.	Long	DDOE	● ● ● ●
2.2 Complete a feasibility study to identify opportunities for neighborhood-scale renewable energy systems.	Short	DDOE	● ● ● ●
2.3 Build 1,000 additional residential and commercial renewable energy projects.	Medium	DDOE	● ● ● ●
2.4 Allow community solar and renewable energy systems through legislation.	Short	DDOE	● ● ● ●
2.5 Develop a wind farm in the region to power District Government and private facilities.	Long	DGS	● ● ● ●
Goal 3: Modernize energy infrastructure for improved efficiency and reliability.			
3.1 Develop a plan for citywide rollout of smart meters and smart grid infrastructure.	Medium	DDOE	● ● ● ●
3.2 Work with utility companies to improve the reliability of energy transmission and distribution.	Medium	DDOE	● ● ● ●
3.3 Modernize electricity infrastructure to enable expansion of local energy generation projects.	Medium	DDOE	● ● ● ●
3.4 Work with local educational and workforce development institutions to train District residents for work in the renewable energy and energy efficiency industry.	Short	DOES	● ● ● ●
FOOD			
Goal 1: Increase agricultural land uses within the District.			
1.1 Adopt the Sustainable Urban Agriculture Act and zoning amendments for expanded urban agriculture.	Short	DDOE	● ● ● ●
1.2 Streamline the process to find and use land for community agriculture projects.	Long	OP	● ● ● ●
1.3 Install educational gardens at 50% of DC Public Schools.	Medium	DCPS	● ● ● ●
1.4 Develop orchards or other food-producing landscaping on 5 acres of DC's public spaces.	Long	DGS	● ● ● ●
1.5 Develop permitting for pop-up agriculture.	Short	DCRA	● ● ● ●
Goal 2: Ensure universal access to secure, nutritious, and affordable food supplies.			
2.1 Expand the DC Healthy Corner Store initiative.	Medium	DOH	● ● ● ●
2.2 Introduce fresh food circulators and mobile vendors in neighborhoods with poor access to fresh foods.	Medium	DOH	● ● ● ●
2.3 Expand the Double Dollars program to farmers' markets and corner stores citywide.	Medium	DOH	● ● ● ●
2.4 Incorporate best practices in healthy and local menus in all DC Public Schools.	Medium	DCPS	● ● ● ●
2.5 Increase transparency about the nutritional content of food.	Long	DOH	● ● ● ●
2.6 Develop cooperative food purchasing systems.	Medium	OP	● ● ● ●
Goal 3: Develop the food industry into a strong and viable economic sector.			
3.1 Complete a comprehensive study of DC food supply systems.	Short	OP	● ● ● ●
3.2 Create a Local Food Hub for consolidation and distribution of local produce.	Medium	DMPED	● ● ● ●
3.3 Develop small business food processing incubator center in DC.	Short	DSLBD	● ● ● ●
3.4 Permit incidental sales of food from community gardens.	Short	DCRA	● ● ● ●
3.5 Designate staff to actively participate in a new Food Policy Council.	Short	OP	● ● ● ●
3.6 Increase government and institutional procurement of local foods.	Short	OCP	● ● ● ●
NATURE			
Goal 1: Protect and restore wetlands, waterways, and aquatic ecosystems.			
1.1 Work with the National Park Service to update open space guidelines and management policies.	Long	DDOE	● ● ● ●
1.2 Develop an Urban Wetland Registry to facilitate restoration or creation of wetland habitat.	Medium	DDOE	● ● ● ●
1.3 Plant and maintain an additional 140 acres of wetlands along the Anacostia and Potomac Rivers and smaller streams.	Long	DDOE	● ● ● ●
1.4 Require new waterfront developments and renovations to incorporate Low Impact Development strategies.	Medium	DDOE	● ● ● ●
1.5 Implement a Fisheries Management Plan to restore DC's native fisheries.	Medium	DDOE	● ● ● ●
Goal 2: Protect and expand tree cover and green landscapes, creating an integrated District-wide ecosystem.			
2.1 Plant 8,600 new trees citywide per year until 2032.	Short	DDOT UFA	● ● ● ●
2.2 Replace 75% of public lighting with fixtures that reduce light pollution.	Long	DDOT	● ● ● ●
2.3 Create a connectivity map to guide development of viable habitats throughout the District.	Short	DDOE	● ● ● ●
2.4 Require trees and green space on all new development sites.	Medium	OP	● ● ● ●
2.5 Stipulate use of native plant varieties for District Government plantings and landscaping.	Medium	DDOT UFA	● ● ● ●
Goal 3: Enhance access to parks and open spaces for all residents.			
3.1 Prepare an open space plan to increase residential connections to green space and the rivers.	Short	DPR	● ● ● ●
3.2 Expand the formal trail network for hiking and biking.	Medium	DDOT	● ● ● ●
3.3 Renovate and improve all District playgrounds.	Short	DPR	● ● ● ●
3.4 Improve transit linkages to parks and natural areas.	Long	DDOT	● ● ● ●
3.5 Create small parks and green spaces in areas with inadequate open space.	Short	DGS	● ● ● ●

ACTION	TIME FRAME	LEAD AGENCY	PROGRESS
TRANSPORTATION			
Goal 1: Improve connectivity and accessibility through efficient, integrated, and affordable transit systems.			
1.1 Complete 37 miles of streetcar networks.	Long	DDOT	● ● ● ●
1.2 Improve transit connections to employment and activity centers from underserved areas.	Medium	DDOT	● ● ● ●
1.3 Define and secure permanent funding for transit planning and improvements.	Long	DDOT	● ● ● ●
1.4 Design transit systems for resilience to extreme weather events.	Medium	DDOT	● ● ● ●
Goal 2: Expand provision of safe, secure infrastructure for cyclists and pedestrians.			
2.1 Develop a citywide, 100 mile bicycle lane network.	Medium	DDOT	● ● ● ●
2.2 Expand the Capital Bikeshare program by 200 stations.	Medium	DDOT	● ● ● ●
2.3 Partner with community organizations to deliver bike and pedestrian safety education.	Short	DDOT	● ● ● ●
2.4 Collect data to improve understanding of cyclist and pedestrian travel patterns.	Short	DDOT	● ● ● ●
2.5 Program crosswalks and traffic lights for improved safety and convenience of pedestrians and cyclists.	Medium	DDOT	● ● ● ●
Goal 3: Reduce traffic congestion to improve mobility.			
3.1 Implement an expanded Performance-Based Parking program.	Short	DDOT	● ● ● ●
3.2 Expand car-sharing programs to low-income residents using financial tools.	Short	DISB	● ● ● ●
3.3 Encourage private businesses to offer incentives for employee travel by transit, walking, or biking.	Medium	DDOE, OP	● ● ● ●
3.4 Encourage and promote telecommuting and alternative work schedules for employees.	Short	DDOT, DCHR	● ● ● ●
3.5 Study the feasibility of a regional congestion fee for travel during peak hours.	Short	DDOT	● ● ● ●
Goal 4: Improve air quality along major transportation routes.			
4.1 Strictly limit idling engines.	Short	DDOE	● ● ● ●
4.2 Require District Government, and encourage private businesses, to purchase clean fuel, low-emission fleet vehicles.	Long	DDOE	● ● ● ●
4.3 Expand electric vehicle charging infrastructure throughout the city.	Medium	DDOE	● ● ● ●
4.4 Offer incentives to avoid driving and other emission-generating activities on predicted Code Red and Orange air quality days.	Medium	DDOE	● ● ● ●
4.5 Track and report mileage data from clean fuel, low-emission, and electric vehicles.	Long	DDOE	● ● ● ●
WASTE			
Goal 1: Reduce the volume of waste generated and disposed.			
1.1 Develop a robust Waste Action Plan with the objective of decreasing all citywide waste streams.	Medium	DPW	● ● ● ●
1.2 Introduce a Pay-As-You-Throw pricing structure for waste collection services.	Long	DPW	● ● ● ●
1.3 Ban Styrofoam and non-recyclable plastic containers from food and retail outlets.	Medium	DDOE	● ● ● ●
1.4 Introduce a bottle deposit law.	Long	DDOE	● ● ● ●
1.5 Implement Sustainable Sites Initiative (SITES) guidelines for park maintenance.	Medium	DPR	● ● ● ●
1.6 Allow nearby businesses to share containers for landfill waste, recycling, and composting.	Short	DCRA	● ● ● ●
Goal 2: Reuse materials to capture their economic value.			
2.1 Establish a District product stewardship program.	Long	DDOE	● ● ● ●
2.2 Introduce construction waste management requirements.	Medium	DCRA	● ● ● ●
2.3 Require the use of recycled and salvaged building materials.	Long	DCRA	● ● ● ●
2.4 Complete a waste life cycle study.	Short	DPW	● ● ● ●
2.5 Reuse 50% of biosolids treated in the District.	Short	DC Water	● ● ● ●
Goal 3: Increase the citywide recycling rate.			
3.1 Provide all households with a three-track waste collection process.	Long	DPW	● ● ● ●
3.2 Establish a new organics transfer station in the District.	Short	DPW	● ● ● ●
3.3 Increase the size of recycling bins.	Medium	DPW	● ● ● ●
3.4 Increase recycling receptacles in the public realm.	Long	DPW	● ● ● ●
3.5 Provide incentives for residential composting and recycling.	Medium	DDOE	● ● ● ●
WATER			
Goal 1: Improve the quality of waterways to standards suitable for fishing and swimming.			
1.1 Field test innovative technologies to improve river water quality.	Medium	DDOE	● ● ● ●
1.2 Restrict the use of cosmetic pesticides and chemical fertilizers.	Medium	DDOE	● ● ● ●
1.3 Restrict the use of harmful salts on roads in winter.	Medium	DDOE	● ● ● ●
1.4 Study the feasibility of implementing nutrient and water quality trading programs.	Short	DDOE	● ● ● ●
Goal 2: Relieve pressure on stormwater infrastructure and reduce long-term flood risk.			
2.1 Install 2 million new square feet of green roofs.	Medium	DDOE	● ● ● ●
2.2 Increase the use of green infrastructure along public rights of way.	Short	DDOT	● ● ● ●
2.3 Double the number of homes participating in the RiverSmart Homes program.	Medium	DDOE	● ● ● ●
2.4 Build 25 miles of green alleys.	Long	DDOT	● ● ● ●
2.5 Establish pervious surface minimums for targeted zoning districts.	Short	OP	● ● ● ●
Goal 3: Reduce demands for potable water and increase rainwater reuse.			
3.1 Update water-efficiency standards in District building codes.	Short	DCRA	● ● ● ●
3.2 Revise building codes to allow the use of alternative water systems.	Short	DCRA	● ● ● ●
3.3 Expand use of neighborhood-scale water collection networks.	Long	DDOE	● ● ● ●
3.4 Develop incentives for water-efficiency measures in landscaping and building design.	Long	DDOE	● ● ● ●
3.5 Expand the use of water monitoring technologies.	Long	DDOE	● ● ● ●