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PURPOSE

The Montgomery County Climate Action Plan (CAP) is a strategic plan to cut greenhouse gas (GHG) emissions 80% by 2027 and 100% by 2035 (compared to 2005 levels) and to reduce climate-related risks to the County’s residents, businesses, and the built and natural environment.

This report has two purposes. First, it highlights efforts made by County departments and agencies, residents, and businesses to combat the climate emergency during the first year of the CAP, Fiscal Year 2022 (FY22). Second, it looks to the year ahead by including a work plan of climate initiatives that are planned for the Fiscal Year 2023 (FY23).

This annual report gives County departments and agencies the opportunity to course-correct as technology evolves, challenges surface, and additional funding becomes available, enabling the CAP to be a living document. In addition to an overview of past and future climate actions, the report also includes needed adjustments to CAP actions, a summary of the approved budget and staffing, a legislative and regulatory policy agenda, and racial equity and social justice steps the County will take while implementing the CAP.
FY22 ACTION & FY23 PLAN HIGHLIGHTS

Clean Energy

FY22 Highlights:

- The inaugural Capital Area Solar Coop concluded in August 2021 to install solar panels on single-family homes in the region, including 76 projects in Montgomery County, with 629 kilowatts (kW) of installed capacity to come online by the end of the calendar year 2022.
- County Council unanimously passed Montgomery County Green Bank Fuel Energy Tax Revenue legislation, which provides 10% of the Fuel Energy Tax to the Green Bank to further its work.
- The Green Bank supported 2 community solar projects: a 273-kW system at Paddington Square with Sunlight General that offers 30% of the 91 subscriptions for low-and-moderate income households; and a 412-kW system in Silver Spring in partnership with Sandy Spring Bank.
- A total of 1,027 residential solar projects were constructed in the County and brought online in FY22.1
- 7.5 megawatts of solar-rated capacity (or “nameplate capacity”) was added to the approved PJM GATS solar generators. The PJM GATS platform connects buyers (consumers) and sellers (producers) of electricity across the region.2 This represents nearly 11 million kilowatt hours of electricity generation, equivalent to 8.6 million pounds of coal being burned!3


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1 Data sourced from DPS Residential Solar Permits database
2 Data sourced from PJM GATS Data Platform
3 “Nameplate capacity” converted to electricity generation using NREL’s PVWatts program. Solar electricity converted to coal equivalents using EPA Calculator)
FY23 Plan Highlights:

- The Department of General Services will **complete the Brookville bus depot microgrid**, the first microgrid in the region for powering electric buses. DGS will expedite Phase 2 to accommodate an additional 70 electric Ride On buses.
- **New solar installations** will include:
  - Solar production initiated at 4 new MCPS schools, and design is underway at an additional 4 locations
  - Solar installations on Montgomery Parks’ Meadowbrook and Wheaton Maintenance Yards and rooftop solar array at Black Hill Maintenance Yard.
  - Completion of the **6MW Oaks Landfill community solar** installation.
  - Microgrid project at the Animal Shelter building.
  - Kick-starting a **solar canopy pilot & EV charging station in an MCPS parking lot**; this project will be complete in FY24 through a Maryland Energy Administration grant.
  - Demonstrate a solar parking lot system at MCPS.
  - MCPS will purchase **off-site ground-mounted solar** in the PJM region.
- The Montgomery County Green Bank will continue work on **solar installations across all areas** - commercial solar, community solar, and homeowner solar - using a variety of investment structures, including power purchase agreements, commercial loans, and Commercial-Property Assessed Clen Energy.
- Work will continue on the development of regulations governing the County’s **Community Choice Aggregation** program at the Public Service Commission.

**Racial Equity & Social Justice:** The Montgomery County Green Bank will continue to **focus on equitable access to financing of solar PV** for homeowners and affordable rental properties. Also, 4 MW out of the 6 MW of Oaks Landfill solar installation is dedicated to community solar. Making this the nation’s largest community solar farm 100% committed to low-and moderate-income residents.
Buildings

FY22 Highlights:

- County Council unanimously passed **Building Energy Performance Standards** legislation, which requires minimum energy performance thresholds to be set for existing covered buildings and drives them to improve their energy efficiency over a set time period, thus reducing carbon emissions.
- The Montgomery County Green Bank supported over **$10 million in clean energy projects** for commercial and multifamily properties.
- 86% of the 644 properties covered by the **Energy Benchmarking** law have reported energy benchmark data for the calendar year 2021. The **Energy Benchmarking** law requires covered buildings (non-residential properties 50,000 gross square feet and greater) to track annual energy use and use a standard metric to compare the building's performance against past performance and to its peers nationwide.\(^4\)
- **Trends in Site Energy Use Intensity:** Among properties that have benchmarked consistently since the calendar year 2016, site energy use per square foot (known as site energy use intensity or site EUI) has decreased by 17.3% compared to 2016 or an average of 3.5% per year. This reduction includes changes in building occupancy and operation caused by COVID-19. The chart below shows site EUI for each year as well as the year-over-year change in site EUI for these consistently reported properties.

\(^4\) Preliminary CY 2021 benchmarking data, subject to change. CY 2021 dataset will be available in October 2022 at: [https://www.montgomerycountymd.gov/green/energy/benchmarking.html#discloseddata](https://www.montgomerycountymd.gov/green/energy/benchmarking.html#discloseddata).
• **Utility Bill Savings:** Between 2016 and 2019, before the COVID-19 public health emergency forced some commercial building operators to change their operations, consistently reported properties saw an 8.2% decrease in site EUI or an average of 2.7% per year. While energy benchmarking alone does not require property owners or managers to implement energy upgrades, results from Montgomery County mirror EPA research\(^5\) that shows persistent energy savings in benchmarked properties. This reduction in energy use is equivalent to an estimated average utility savings of roughly $9,700 per property per year.

• **Energy Savings:** The reduction in energy use between 2016 and 2021 for consistently reported benchmarked properties (an estimated 138 million kWh electricity and 2 million therms of natural gas) is roughly equivalent to 110,000 MTCO2e (metric tons of carbon dioxide equivalents, a unit used to compare GHG emission potency).\(^6\)

**FY23 Plan Highlights:**

• The Department of Environmental Protection will launch a new Electrification Incentive Program in partnership with the City of Takoma Park to provide technical assistance and incentives for electrification in existing residential homes.

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\(^6\) Preliminary CY 2021 benchmarking data, subject to change. CY 2021 dataset will be available in October 2022 at: [https://www.montgomerycountymd.gov/green/energy/benchmarking.html#discloseddata](https://www.montgomerycountymd.gov/green/energy/benchmarking.html#discloseddata). MTCO2e computed using [EPA Calculator](https://www.epa.gov/energy/electricity-usage-plans)
• The Department of General Services will complete the **Holiday Park Senior Center net-zero building retrofit**. This project is the County’s first net-zero conversion of an existing building and will include the installation of solar glass windows.

• The **Building Performance Improvement Board** will be selected and appointed. The Board will advise the Department of Environmental Protection on Building Energy Performance Standard regulations to be issued by December 1, 2023.
Transportation

FY22 Highlights:

- The first 25 electric MCPS school buses have arrived as part of a plan to replace 326 diesel buses with electric school buses over four years.
- The Montgomery County Department of Transportation removed the Mid-County Highway from the region’s 2022 Transportation Long Range Plan, Visualize 2045.
- Free fares have been made permanent on Ride On for those under age 18 with Kids Ride Free and for Seniors and persons with disabilities.
- Ride On service levels were restored to 80% of pre-Covid levels by January 2022, with plans to reach 90% of pre-Covid service levels by July 2022. Ride On annual ridership in FY22 was 10,078,000.²
- The Montgomery County Department of Transportation and Department of Environmental Protection launched the EV Purchasing Co-op Pilot and received over 1,000 pledges from residents and local businesses to purchase an EV for their next vehicle.
- Montgomery Parks completed the Hadon Trail Connection, adding additional paved trails to connect the Long Branch Trail on Haddon Drive.
- Montgomery Parks launched the Open Parkways program to provide more outdoor space for recreation and exercise by closing portions of the parkway to vehicles on weekends.
- As of June 2021, 1.5% of passenger vehicles registered in the county were plug-in vehicles. DEP estimates that plug-in vehicles made up 9.5% of new vehicle registrations in the last year.⁷

As of June 28, 2022, MCPS received all 25 scheduled EV buses.

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² Data concerning EV registrations and EV charger installation provided by Brian Booher, DEP
o Construction was recently completed on Electric Vehicle charging stations in South Germantown Recreational Park and Big Pines Local Park.

o Public and private entities throughout Montgomery County added 160 Level 2 Electric Vehicle (EV) public charging stations and 38 Direct Current Fast Charging (DCFC) Electric Vehicle (EV) public charging stations, with a cumulative total of 456 Level 2 EV charging stations and 92 DCFC EV charging stations distributed throughout the County by the end of FY22. 

16,618 Plug-In Vehicles (Electric Vehicles and Plug-In Hybrid Electric Vehicles) registered in the County in FY22. This represents a 38% increase in Plug-In Vehicle registrations from FY21.

Racial Equity & Social Justice: The Montgomery County Department of Transportation completed a Fare Equity Study. A fare structure of half-price for most routes was adopted by Council, making most Ride On fares $1. An extensive outreach campaign will be conducted prior to implementation.

FY23 Plan Highlights:

• The next 10 electric Ride On buses will be put into service. Ride On will operate a total of 14 electric buses in FY23. The Department of General Services will procure an additional 100 electric Ride On buses over 3 years, including approximately 45 electric buses in FY23.

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8 Ride On ridership data sourced from [MCDOT Dashboard](#); FY22 ridership represents a decrease of 38.2% from FY21 Ride On Ridership.
• MCPS will continue testing and increasing its **electric school bus fleet**. MCPS will use electric buses on summer school routes and increase the number of drivers who are familiar with the buses.

• The Montgomery County Department of Transportation will install **EV charging stations at County parking garages** to the maximum extent possible, adding to the County’s inventory of charging locations.

• The Department of General Services awarded a contract for the installation of **publicly accessible EV charging stations** at approximately 65 libraries, recreation centers, and swimming pools throughout the County. The installation work will get underway in FY23.

• Preliminary design continues to advance for both **Veirs Mill Road and MD 355 Bus Rapid Transit (BRT)**. Construction is fully funded for the MD 355 BRT Central Phase and Veirs Mill Rd BRT in the 6-year CIP.

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**Racial Equity & Social Justice:** Building on an FY22 effort to conduct an equity review of sidewalk projects, the Montgomery County Department of Transportation will undertake a deeper dive analysis of the equity implications of its transportation projects. Also, the Montgomery County Green Bank will launch an **EV charger installation program for affordable rental properties** supported by a philanthropic grant from General Motors that would help install over 25 EV chargers in these properties.
Carbon Sequestration

FY22 Highlights:

- The Office of Agriculture educated farmers and landowners on no-till practices, following nutrient management plans, and cover crops.
- The Department of Environmental Protection launched the single-family residential curbside recycling collection of food scraps pilot.
- Montgomery Parks’ held its first ever urban wood sale. The urban wood reuse program turns hazardous trees removed from parkland into lumber and other reused wood products in park operations.
- The Department of Environmental Protection RainScapes program installed over 150 projects on private properties, including conservation landscape and rain garden projects. These practices sequester more carbon than lawns.
- Tree Plantings:
  - Tree Montgomery planted 1,700 trees on more than 380 separate properties in FY22, for a cumulative total of 7,450+ shade trees planted through the Spring 2022 Planting Season.9
  - The Montgomery County Department of Transportation planted 1,660+ trees in the right-of-way in FY22.10
  - Reforest Montgomery planted 793 trees through reforestation projects in FY22 in which multiple trees were planted at a rate of at least 100 trees/acre.11
  - Montgomery Parks planted 1,500 trees and 1,125 shrubs on parkland.

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9 Data provided by Tree Montgomery and sourced from the Tree Montgomery website
10 Data provided by Brink Linkletter, MCDOT
11 Data provided by Mia Rothberg, Montgomery Planning
Racial Equity & Social Justice: Montgomery Parks is increasing focus and prioritization on parks located in Equity Focus Areas to ensure that they are being/have been visited on a regular basis for assessment of tree planting/canopy coverage needs.

FY23 Plan Highlights:

- With $1.5 million received from federal appropriations, the Department of Environmental Protection will conduct additional tree planting, including reforestation. Due to the new hire of a tree planting staff in FY22, the Department expects additional plantings through the Tree Montgomery Program and anticipates applying for funds from the State of Maryland’s 5 Million Tree Initiative for forest reforestation efforts.
- The Department of Environmental Protection will continue to expand its RainScapes program on private properties through the installation of conservation landscape and rain garden projects (over 150 new projects). These practices sequester more carbon than lawns.
- The Department of Environmental Protection applied for and was awarded funding from the Chesapeake Bay Trust’ Urban Trees Award Program for $135,000 to plant 250 trees on 18 public sites in frontline communities.
- Montgomery Parks’ planned plantings for FY23 include-- Watts Branch Stream Valley Park: approximately 250 trees across 5.2 acres; Rock Creek Stream Valley Park: 5 large caliper trees; Rosemary Hills Local Park: 2 large caliper trees; Lynnbrook Park: 5 large caliper trees; additional projects will be added throughout the year.
- The Montgomery County Department of Transportation will have additional funding for tree planting, enabling it to increase the rate of tree planting efforts in the right-of-way.
- The Department of Environmental Protection will conduct an inventory of potential restoration opportunities at stormwater maintenance facilities that are currently maintained in turf for conversion to meadow habitat.
- The Department of Environmental Protection, working in partnership with World Resources Institute, will update a complement to the GHG inventory focusing on emissions and sequestration associated with trees and forests.
Racial Equity & Social Justice: The Department of Environmental Protection, through Tree Montgomery and several grant awards, will target frontline communities for shade tree plantings to increase the benefits of shading-built surfaces and AC units.
Climate Adaptation

FY22 Highlights:

- The Department of Environmental Protection completed the construction of Glenmont Forest Green Streets, with 53 rain gardens, bio-retention gardens, and tree boxes installed.
- The Department of Environmental Protection and the Office of Emergency Management and Homeland Security installed 22 early warning flood sensors in FY22, with another 13 to be installed in FY23. These early warning flood sensors can alert residents sooner about high water or flooding events.
- The Office of Emergency Management and Homeland Security released 7 Hyperthermia Alerts on days with forecasted temperatures or heat indices of over 95 degrees. Hyperthermia Alerts remind community members of precautions they can take on high heat days to keep themselves and their neighbors safe.
- The Department of Environmental Protection, Department of Transportation, and Department of General Services is working with Naval Support Activity Bethesda (NSAB) to prepare a Military Installation Resiliency Review (MIRR) planning study. The MIRR will identify off-base climate vulnerabilities impacting NSAB’s onsite water, transportation, and energy operations and propose mitigation actions. The study is funded through a Department of Defense Office of Local Defense Community Cooperation grant.
- The Department of Environmental Protection continued developing the final design for the Wheaton Dam Flood Mitigation project and secured funding from the Maryland Department of Natural Resources ($110,000) to expand and enhance forested buffers and existing tree canopy on 7.7 acres around the Wheaton Regional Stormwater Management Facility and Wheaton Branch, a tributary to Sligo Creek and the Anacostia River.
Racial Equity & Social Justice: Montgomery Parks opened Nolte Community Garden, which provides 19 accessible gardening beds atop the foundation of a demolished Park Activity Building. This garden addresses equity goals by engaging seniors and food insecure families in this part of Silver Spring.

FY23 Plan Highlights:

- The Department of Environmental Protection and the Office of Emergency Management and Homeland Security will conduct an NOAA-funded Urban Heat Mapping Campaign with community volunteers. Through assistance from a Thriving Earth Exchange scientist, the County will analyze the data gathered to identify communities to target for shade tree plantings on private property and along streets.
- The County will continue to develop a comprehensive Flood Management Plan. This multi-year, multi-stage process will lead to specific watershed studies to identify the causes and potential solutions to flooding in the County. The effort will also result in recommendations related to the structure and resources of the County government for flooding preparation, response, and recovery.
- The Department of Permitting Services anticipates receiving the preliminary flood maps for Montgomery County from FEMA, which will update the flood insurance program.
- The Department of General Services will complete the Scotland Resilience Hub in October 2022.
- Department of Environmental Protection will release a Request for Proposals for Watershed Implementation grants in partnership with the Chesapeake Bay Trust; the RFP will include an expanded request for green infrastructure implementation projects.
- The Department of Environmental Protection will complete the design and permitting for the Wheaton Dam Flood Mitigation project by January 2023, and construction is expected to be completed in late 2024.
- The Department of Environmental Protection will be applying to the United States Army Corps of Engineers for Planning Assistance to the State funding to study the causes of flooding and potential solution to these flooding problems in several watersheds.
- The Department of Environmental Protection is participating in the State of Maryland A-Storm Stakeholder Consultation group and the Technical Advisory Committee. This participation is in response to the Maryland General Assembly passing
legislation in 2021 (Senate Bill 227/House Bill 295) that requires MDE to incorporate updated flooding and climate change data into Maryland’s stormwater management law in consultation with stakeholders, including local governments. Specifically, it requires MDE to: identify the most recent precipitation data available; investigate flooding events since 2000 to identify potential areas of concern; revise Maryland stormwater quantity management standards for flood management every five years, and update other parts of the stormwater regulations as necessary every five years.

• The Edgewood Community Garden will open in the Spring of 2023; the community garden will help provide healthy, accessible food to this part of the County.

Racial Equity & Social Justice: The Department of Environmental Protection will launch a pilot program to provide climate resilience funding for low- and moderate-income housing to fill funding gaps in existing programs that these households may benefit from. Funds will have a broad scope of possible uses to help people stay in their homes and insulate these existing homes from climate vulnerabilities. Also, the Montgomery County Green Bank will work with the County and property owners to understand the needs of affordable rental property owners to meet climate-adapting improvements and determine initial strategies for responding.
Governance

FY22 Highlights

- The Office of Emergency Management and Homeland Security held the Emergency Operations Center Spring Functional Exercise, with an exercise scenario focused on a derecho, extreme heat, and extreme flooding.
- The Department of Environmental Protection, the Office of Innovation, and the Office of Human Resources sponsored 5 climate training programs for 75 County government staff from 20 departments and developed a comprehensive set of resources for the new Climate Change Ambassador Training Program to build understanding and engagement among county government staff about climate change.
- The Department of Finance and the Department of Environmental Protection worked in partnership with the Montgomery County Green Bank to expand the scope of the Commercial Property Assessed Clean Energy program, which ultimately led to Council passage of Bill 46-21, Commercial Property Assessed Clean Energy Financing Amendments.

75 Climate Ambassadors from 20 different County Departments

Racial Equity & Social Justice: The Emerald Cities Collaborative completed the "High Road Economic Inclusion Framework for an Equitable Climate-Ready Economy" with recommendations on a) training a diverse and inclusive workforce that meets the demand for the thousands of green jobs generated by the CAP and ensures that these jobs are accessible and lead to career pathways and b) aligning and leveraging local anchor institutions' procurement to drive the County's climate goals by procuring local, organic food from our Agricultural Reserve.
FY23 Plan Highlights:

- The Office of Emergency Management and Homeland Security will kick off the Hazard Mitigation planning process.
- The Behavioral Health and Crisis Services Division of the Department of Health and Human Services will draft an addendum to its strategic plan to incorporate climate change considerations more directly into behavioral health and crisis services.
- The Montgomery County Green Bank will explore financing structures and products that could be developed to meet new and emerging needs as well as revise current products as the market needs may dictate.
- The Office of Management and Budget will further develop the role of climate in the budget process by adding to and refining the information submitted by departments as part of the justification for their capital and operating budget requests.
- The Office of Human Resources will expand resources on managing the hybrid work environment, calculate the impact of the County’s Telework Program on GHG emissions, and provide individual consults and workshops to expand access to telework where appropriate.
Public Engagement, Partnerships, and Education

FY22 Highlights

- The MCPS Board of Education unanimously passed Policy ECA, Sustainability, committing MCPS to cut greenhouse gas emissions 80% by 2027 and 100% by 2035 compared to 2005 levels, in line with the CAP. Over 1,000 participants engaged in information sessions, and over 100 written comments were received, with the majority in support of the new policy.
- The Climate Change Communication Coalition (C4) was formed with representatives from 12 departments and agencies. C4 initiated a campaign soliciting feedback from the public on the CAP, particularly as it relates to resonant themes that can be used in outreach.
- 91 of 209 MCPS schools have achieved the Maryland Association of Environmental and Outdoor Education Green Schools Status. About 80% of MCPS schools participated in some fashion in new waste reduction programs, including 42 schools with share tables, 13 schools composting, and other schools recycling new items (markers, batteries, etc.).
- The Maryland Coalition of Counties and Cities for Climate Action has launched and is meeting regularly to advance climate progress at the State level.
- Montgomery Parks hosted the 2022 Greenfest celebration in person for the first time in two years at Brookside Gardens, through a coalition of public, non-profit, and university partners, with 5,000 attendees.

Racial Equity & Social Justice: The Department of Environmental Protection organized climate storytelling workshops, facilitated by Climate Stories Project, in which community members develop, record, and share their own climate stories—their personal and community relationships with climate change. This project focused on amplifying the voices of under-represented and frontline community members. Community-based partners include the African American Health Program, Latino Health Initiative, Community Advocacy Institute, African Affairs Advisory Group, Caribbean American Advisory Group, and others.

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12 Information sourced from Maryland Association for Environmental and Outdoor Education (MAEOE) handout
FY23 Plan Highlights:

- The Department of Environmental Protection, the Office of Emergency Management and Homeland Security, and the Department of Health and Human Services will expand engagement with residents with a primary language other than English living along the US 29 corridor to increase Alert Montgomery emergency notifications.
- MCPS will begin the implementation of its new Sustainability Policy (ECA).
- The Climate Change Communication Coalition will launch the umbrella campaign for outreach around five areas of GHG reduction: using less energy at home, planting trees, reducing food waste, purchasing flood insurance, and transportation choices.
- Montgomery Parks will begin construction of the Black Hill Sustainable Education Every Day classroom, net-zero water and net-zero energy modular learning space that encourages creative education through the building’s living and technical components.

Racial Equity & Social Justice: The Department of Environmental Protection is working with various County staff and the Montgomery County Racial Equity (MORE) Network on the implementation of the Community Justice Academy with Community Ambassadors who will co-create integrated health, equity, and quality-of-life solutions that center on the needs and desires of low-income and Black, Indigenous, and Other People of Color communities in the County. The Department of Environmental Protection will also launch a Community Justice Fund to advance small projects co-conceived and co-created by Community Ambassadors in cooperation with their respective community members and County staff.
LEGISLATIVE AND REGULATORY POLICY AGENDA

FY22 Legislative and Regulatory Accomplishments:

- **Code Changes to Bill 13-21 Relating to Vehicle Charging Facilities**
  - JULY 2021
  - Council adopted code changes to section 49-11 to allow for homeowner-installed vehicle charging facilities within the public right of way.

- **2018 International Green Construction Code**
  - SEPT 2021
  - Sets more stringent requirements for new commercial construction projects and major building additions, including energy efficiency improvements, onsite energy generation and improved indoor air quality. Unanimously passed by Council.

- **Montgomery County Green Bank Fuel Energy Tax Revenue, Bill 44-21**
  - FEB 2022
  - Provides 10% of the Fuel Energy Tax to the MCGB to further its work. Unanimously passed by Council.

- **Commercial Property Assessed Clean Energy (C-PACE) Financing Amendments, Bill 46-21**
  - MAR 2022
  - Expands financing opportunities for property owners to make their buildings more climate-resilient and energy efficient, helping to improve operating costs and reduce greenhouse gas emissions. Unanimously passed by Council.

- **Building Energy Performance Standards, Bill 16-21**
  - APR 2022
  - Sets a minimum energy performance threshold for existing covered buildings and drives them to improve their energy efficiency over a set time period, thus reducing carbon emissions. Unanimously passed by Council.

- **MCPS Policy ECA, Sustainability**
  - JUNE 2022
  - The policy commits MCPS to cutting greenhouse gas emissions 80% by 2027 and 100% by 2035 compared to 2005 levels, in line with the CAP. Unanimously adopted by MCPS Board of Education.

- **Climate Assessments Legislation, Bill 3-22 – PASSED in FY23**
  - JULY 2022
  - Requires a climate assessment for pending policy pending, helping to ensure that all legislative decisions are made with awareness of how they will impact the County’s climate goals. Unanimously passed by Council.
FY23 Legislative and Regulatory Plans *(new plans may develop throughout FY23)*

**Clean Energy Actions**

**Leaf Removal Legislation, Bill 18-22** - The County Executive transmitted legislation to Council to ban the sale and use of gas-powered leaf blower equipment. The bill was introduced in June 2022.

**State-Level Advocacy:** The DEP will continue to engage in the 100% Renewable Portfolio Standard Study Work Group convened by Maryland’s Department of Natural Resources.

**Building Actions**

**Comprehensive Building Decarbonization Legislation, Bill 13-22** - The bill would require the County to issue all-electric building standards for all new construction, major renovations, and additions by Jan. 1, 2024. Introduced in June 2022.

**State-Level Advocacy:** The County will continue to advocate to the MD General Assembly and Public Service Commission that natural gas no longer be incentivized through the EmPOWER Maryland program and for building codes to encourage and/or require electrification.

**Climate Adaptation Actions**


**Montgomery County Green Bank Enabling Legislation Amendments** – The DEP is drafting amendments to the MCGB’s enabling legislation to allow the Green Bank to engage in climate resilience activities.
Transportation Actions

**Motor Vehicles and Traffic - E-Scooters, Bill 36-21** – Introduced in 2022 and under review by Council.

**Complete Streets Design Guide** - Completed by the Montgomery County Department of Transportation and Montgomery Planning, the guide has been approved by the Planning Board. Updates to the County Code and regulations are under finalization for transmittal to Council in early FY23.

**Pedestrian Master Plan** – The Planning Department will submit the Pedestrian Master Plan to the Planning Board later this calendar year, and it will be taken up by County Council in early 2023.

**Transportation Demand Management** – MCDOT will move forward with these executive regulations in FY23.

**State-Level Advocacy:** MCDOT participated in a discussion with County representatives to the State Legislature about a Vehicle Carbon Gas Tax or VMT Tax. The delegation is aware of the County’s interest to advance this issue in the next legislative session.

Carbon Sequestration Actions

**Conservation Law Amendments** - M-NCPPC Planning introduced an amendment to strengthen the Forest Conservation Law in April 2022. The Montgomery County Planning Board approved the draft with minor changes, and it was transmitted to the County Council May for a July 2022 introduction. The bill would increase forest planting and forest conservation requirements for projects subject to the Montgomery County Forest Conservation Law.

**Reduction of Edible Food Waste** - The Department of Environmental Protection and the Department of Health and Human Services are drafting legislation that aims to reduce edible food waste throughout the county.

**Additional Tree Protections** - The Department of Environmental Protection will review the potential for new legislation to protect additional trees any time there is redevelopment, perhaps using the model of the Roadside Tree Law.
FY23 BUDGET AND STAFFING

Operating Budget
Climate actions are funded in the County’s annual operating budget within the Climate Change Planning Non-Departmental Account (NDA) as well as in the County departments’ budgets. The County’s FY23 Operating Budget Chapter on Climate Change Initiatives includes over $23 million in new funds for:

- Clean energy efforts, including $18.6 million in new funding for the Montgomery County Green Bank
- Addressing Flooding Issues
- Enhancing Climate Adaptation and Preparedness
- Conducting Equitable Community Engagement
- Implementing Building Energy Performance Standards
- Supporting Greenhouse Gas Reduction and Adaptation Measures in Low Income Housing
- Enhancing the County’s Climate Governance Capacity
- Accelerating Nature-based Carbon Sequestration
- Supporting Greenhouse Gas Reduction in New & Existing Residential Buildings
- Implementing Equitable Climate Economy Recommendations
- Supporting Greenhouse Gas Reduction in the Transportation Sector
- Undertaking Climate Communications Campaigns

Funding for new climate staff:

- 16 new climate staff positions across 6 County departments to enhance climate governance capacity
- 20 new part-time bus operator positions at MCDOT
Racial Equity & Social Justice: over $1 million for programs supporting low-income and minority communities:

- **Community Justice Fund** to advance small projects co-conceived and co-created by Community Ambassadors in cooperation with their respective community members and County staff.
- **Efficiency & Climate Resiliency Pilot Program** for low- and moderate- housing

Also, the **Green Bank must dedicate 20% of the funds** that it receives from the passage of the Montgomery County Green Bank Fuel Energy Tax Revenue Law to **Equity Emphasis Areas** in the County.

Capital Budget

The Approved FY23 Capital Budget and the **FY23-28 Capital Improvements Program** includes substantial investments for climate-related infrastructure development and construction projects. This includes **$1.4 billion for climate resilience, transportation improvements, energy efficiency, and maintenance projects** as delineated below.

- **$710 million in mass transit improvements** to reduce the climate impact of transportation in the County, including
  - **$408 million for Bus Rapid Transit (BRT) planning and implementation**
  - **$152 million** to begin to transition Ride On to a zero-emission fleet
- **$340 million for pedestrian and bicycle transportation** facilities to encourage active modes of transportation and reduce short-distance car trips
- **$163 million** to fund maintenance projects that increase the energy efficiency of county government, MCPS, Montgomery College, and M-NCPPC facilities through building envelope repair and replacement of obsolete mechanical and electrical systems
- **$174 million** for projects that maintain and improve the County’s resilience to extreme weather through stormwater management and maintenance and rehabilitation of waterways.
- **$12.5 million** in added funding for projects to help achieve net-zero energy use in new or renovated facilities, including Holiday Park Senior Center, the White Flint Fire Station, the 6th District Police Station, and $4.4 million to help achieve near net-zero energy use in the renovated Kennedy Shriver Aquatic Center
**Racial Equity & Social Justice:** County government incorporated racial equity & social justice considerations into the CIP development process, including using mapping to identify & address racial disparities, considering the structural barriers that disproportionately impact communities of color & low-income communities, and examining the intersection of racial equity and climate change.

**Other Funding Sources**
The County is a recipient of philanthropic, state, and federal grants that support climate action.

*Federal funding sources include:*

- US Department of Defense funding for climate resilience study at the NSA Bethesda facility (Walter Reed)
- US Department of Homeland Security grant for flood sensors installation
- National Oceanic and Atmospheric Administration grant for urban heat mapping
- $1.5 million from FY22 Omnibus Appropriations for DEP tree planting and green infrastructure

*State funding sources include:*

- Maryland Energy Administration grant for MCPS to explore building decarbonization
- Department of Natural Resources Trust Fund grant for reforestation at the Wheaton Branch property

*Other external funding sources include:*

- $85,000 Transportation Planning Board grant to improve pedestrian/cyclist accessibility of Germantown MARC station
- MWCOG’s Transportation and Land Use Connections (TLC) grant to update county’s lighting standards; and another TLC grant to study ways to improve pedestrian and bicycle access and safety in the Town of Kensington Connecticut Avenue corridor.
- $169,000 Chesapeake Bay Trust grant for tree planting

In FY23, the County will explore grant funding opportunities being made available through the Bipartisan Infrastructure Law and the Inflation Reduction Act.
GREENHOUSE GAS (GHG) EMISSIONS INVENTORY

Montgomery County’s GHG Emissions Inventories are conducted every 2 to 3 years by the Metropolitan Washington Council of Governments (MWCOG). GHG Emissions Inventories have been completed for 2005, 2012, 2015, and 2018. The GHG emissions inventory for calendar year 2020 is currently underway.

Between 2005 and 2018, GHG emissions in Montgomery County decreased by 19%. In 2018, residential and commercial energy consumption accounted for 50% of measured emissions and transportation-related emissions accounted for 42%. As of 2018, the building sector was the most significant driver of GHG emissions reductions in the County; building sector emissions are down by 3% since 2015 and 30% since 2005. The largest sources of decreases in emissions between 2005 and 2018 are changes in the region’s electricity fuel mix; decreased commercial energy use per square foot; and decreased on-road emissions per mile; these reductions were partially offset by growth in population; growth in commercial floor areas; and increased use of refrigerants.

Next steps for the 2020 GHG Emissions Inventory:

The typical timeline for MWCOG to complete a GHG inventory is 1.5 years following the end of the calendar year being assessed, as community-wide data takes time to collect and process. The 2020 GHG Inventory is expected to be publicly released by December 2022. A short-term MWCOG timeline is provided below:

July 2022 - Draft GHG Data Summary spreadsheets and ClearPath (GHG inventory tool) entries complete
August - September 2022 - Local jurisdiction comment period and 1-on-1 jurisdiction calls
September – October 2022 – Edits to inventories as needed based on comments received
October – November 2022 – Contribution analysis model runs (i.e., drivers of GHG change)
September – December 2022 - Forest and trees sequestration test calculations and possible incorporation into final inventories
December 2022 - Final GHG Data Summary spreadsheets, fact sheets, and ClearPath entries complete

All Montgomery County, GHG Emissions Inventories are available at [www.montgomerycountymd.gov/green/climate/ghg-inventory.html](http://www.montgomerycountymd.gov/green/climate/ghg-inventory.html)
# FY22 PROGRESS AT A GLANCE

**PROGRESS LEGEND:**
- Not started
- Initial Steps Taken
- Significant Progress
- Completed or Institutionalized

## Clean Energy

<table>
<thead>
<tr>
<th>Clean Energy ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-1</td>
<td>Community Choice Energy Program</td>
</tr>
<tr>
<td>E-2</td>
<td>Private Building Solar Photovoltaic Code Requirements</td>
</tr>
<tr>
<td>E-3</td>
<td>Promote Private Solar Photovoltaic Systems</td>
</tr>
<tr>
<td>E-4</td>
<td>Public Facility Solar Photovoltaic Installations and Groundwork</td>
</tr>
<tr>
<td>E-5</td>
<td>Advocate for a 100% Renewable Portfolio Standard by 2030</td>
</tr>
</tbody>
</table>

## Buildings

<table>
<thead>
<tr>
<th>Buildings ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-1</td>
<td>Electrification Requirements for Existing Commercial and Public Buildings</td>
</tr>
<tr>
<td>B-2</td>
<td>Electrification Requirements for Existing Residential Buildings</td>
</tr>
<tr>
<td>B-3</td>
<td>Energy Performance Standard for Existing Commercial and Multifamily Buildings</td>
</tr>
<tr>
<td>B-4</td>
<td>Electrification Incentives for Existing Buildings</td>
</tr>
<tr>
<td>B-5</td>
<td>All-Electric Building Code for New Construction</td>
</tr>
<tr>
<td>B-6</td>
<td>Disincentivize and/or Eliminate Natural Gas in New Construction</td>
</tr>
<tr>
<td>B-7</td>
<td>Net Zero Energy Building Code for New Construction</td>
</tr>
</tbody>
</table>
### Transportation

| T-1 | Expand Public Transit          |
| T-2 | Expand Active Transportation and Shared Micromobility Network |
| T-3 | Private Vehicle Electrification Incentives and Disincentives |
| T-4 | Constrain Cars in Urban Areas, Limit New Road Construction |
| T-5 | Zero Emission Public Buses and School Buses |
| T-6 | Electrify County and Public Agencies Fleet |
| T-7 | Expand the Electric Vehicle Charging Network |
| T-8 | Transportation Demand Management and Telework Strategies |
| T-9 | Traffic Management Systems |
| T-10 | Electric Vehicle Car Share Program for Low-Income Communities |
| T-11 | Off-Road Vehicle and Equipment Electrification |
| T-12 | Advocate for a Vehicle Carbon Gas Tax or VMT Tax |
| T-13 | Advocate for Rail Alternative Fuels |

### Carbon Sequestration

| S-1 | Retain and Increase Forests |
| S-2 | Retain and Increase Tree Canopy |
| S-3 | Restore and Enhance Meadows and Wetlands |
| S-4 | Regenerative Agriculture |
| S-5 | Restore Soil Fertility, Microbial Activity, and Moisture Holding Capacity |
| S-6 | Whole-System Carbon Management and Planning |
# Climate Adaptation

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>A-1</td>
<td>Water Infrastructure Resilience</td>
</tr>
<tr>
<td>A-2</td>
<td>Repair and Enhancement of Stormwater Conveyance Systems</td>
</tr>
<tr>
<td>A-3</td>
<td>Temperature Monitoring and Alerts</td>
</tr>
<tr>
<td>A-4</td>
<td>Extreme Weather Energy Efficiency Building Code</td>
</tr>
<tr>
<td>A-5</td>
<td>Climate-Adapted Housing Incentives/Subsidies</td>
</tr>
<tr>
<td>A-6</td>
<td>Green/Cool/PV Roof and Pavement Code</td>
</tr>
<tr>
<td>A-7</td>
<td>Green Public Spaces</td>
</tr>
<tr>
<td>A-8</td>
<td>Harden Emergency Shelters and Install Resilience Hubs</td>
</tr>
<tr>
<td>A-9</td>
<td>Mold Protection and Remediation</td>
</tr>
<tr>
<td>A-10</td>
<td>Green Infrastructure</td>
</tr>
<tr>
<td>A-11</td>
<td>Climate Adapted Development Standards</td>
</tr>
<tr>
<td>A-12</td>
<td>Stormwater Retention Credit Trading</td>
</tr>
<tr>
<td>A-13</td>
<td>Ban Stormwater Management Requirement Waivers</td>
</tr>
<tr>
<td>A-14</td>
<td>Update Floodplain Maps</td>
</tr>
<tr>
<td>A-15</td>
<td>Water Supply Protection</td>
</tr>
<tr>
<td>A-16</td>
<td>Flood Rescue Resources</td>
</tr>
<tr>
<td>A-17</td>
<td>On-Site Water Reuse</td>
</tr>
<tr>
<td>A-18</td>
<td>Expanded Community Gardens</td>
</tr>
<tr>
<td>A-19</td>
<td>Advocacy for Off-River Water Storage</td>
</tr>
<tr>
<td>A-20</td>
<td>Study Potential for Buildings in the County to Flood and Possible Remedies</td>
</tr>
</tbody>
</table>
## Governance

<table>
<thead>
<tr>
<th>G-1</th>
<th>Build awareness among all Montgomery County Government staff about climate change</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-2</td>
<td>Establish a Climate Change Academy to integrate Climate Change Training into the Professional Development of MCG staff</td>
</tr>
<tr>
<td>G-3</td>
<td>Incorporate climate competencies into Montgomery County Government job descriptions and Performance Plans</td>
</tr>
<tr>
<td>G-4</td>
<td>Identify and create new positions that are needed for the County government to prepare for and respond to climate hazards, implement climate adaptation measures, and reduce greenhouse gas emissions</td>
</tr>
<tr>
<td>G-5</td>
<td>Establish a cross-departmental Climate Innovation Lab to develop, fund, and implement climate and resiliency initiatives</td>
</tr>
<tr>
<td>G-6</td>
<td>Designate Climate Ambassadors within each County department</td>
</tr>
<tr>
<td>G-7</td>
<td>Evaluate and update county planning, policy, and operations activities to account for the risks of climate change impacts and prioritize the needs of vulnerable residents</td>
</tr>
<tr>
<td>G-8</td>
<td>Evaluate and update county planning, policy, and operations activities to reduce greenhouse gases</td>
</tr>
<tr>
<td>G-9</td>
<td>Incorporate climate considerations into the County’s budgeting processes</td>
</tr>
<tr>
<td>G-10</td>
<td>Develop financing strategies for implementing climate actions and incorporate climate considerations into County finance practices</td>
</tr>
<tr>
<td>G-11</td>
<td>Develop climate, energy, health and racial equity metrics, and a data-driven assessment and reporting process</td>
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<tr>
<td>G-12</td>
<td>Formalize the Climate Leadership Team to guide the implementation of climate plan actions</td>
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<tr>
<td>G-13</td>
<td>Update the County’s teleworking and transit benefit policies to encourage MCG staff to reduce vehicle miles traveled</td>
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<tr>
<td>G-14</td>
<td>Establish Montgomery County Government Carbon Fund for Air Travel</td>
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<tr>
<td>G-15</td>
<td>Consolidate County climate data</td>
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<td>G-16</td>
<td>Conduct climate vulnerability detailed assessments</td>
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<tr>
<td><strong>Public Engagement, Partnerships, and Education</strong></td>
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<tr>
<td><strong>P-1</strong> Undertake Vigorous Public Outreach Campaign Aimed at Empowering the Public with Information on How to Reduce Emissions and Adapt to the Impacts of Climate Change</td>
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<tr>
<td><strong>P-2</strong> Conduct an Outreach Campaign that Uses Evidence-Based Communications Strategies</td>
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<tr>
<td><strong>P-3</strong> Form a Climate Change Communication Coalition</td>
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<tr>
<td><strong>P-4</strong> Enhance County Websites to Focus More Sharply on Climate Change</td>
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<tr>
<td><strong>P-5</strong> Establish a Community Justice Academy in which Graduating Community Ambassadors Representing their Neighbors Conceive and Co-Create Integrated Health, Equity and Quality-of-Life Solutions Directly Applicable to their Communities</td>
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<tr>
<td><strong>P-6</strong> Use the Climate, Energy, and Air Quality Advisory Committee as a Resource to Advise the County on Performance Metrics and Plan Implementation</td>
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<td><strong>P-7</strong> Facilitate Ongoing Input from Community Members on the CAP’s Implementation</td>
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<td><strong>P-8</strong> Engage County Artists through Public Art Installations to Raise Awareness, Discussion, and Action on Climate Change</td>
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<tr>
<td><strong>P-9</strong> Support the Efforts of Community Organizations, Businesses, Municipalities, and Associations that Promote and Operationalize Equitable Climate Action</td>
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</tr>
<tr>
<td><strong>P-10</strong> Establish a Statewide Coalition of Local Governments and Youth Groups Focused on Advancing Ambitious State Climate Policy by Collectively Advocating their Positions before the State Legislature, the Public Service Commission, and the Utility Companies</td>
<td></td>
</tr>
<tr>
<td><strong>P-11</strong> Establish Partnerships with Federal Agencies Located within the County’s Boundaries on GHG Mitigation and Climate Resiliency Efforts</td>
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<tr>
<td><strong>P-12</strong> Advocate for the Continued Integration of Climate Change Education into the Existing School Curriculum</td>
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<tr>
<td><strong>P-13</strong> Develop a standardized climate change curriculum across public schools and recommend the same for private schools and home schools</td>
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<tr>
<td><strong>P-14</strong> Provide professional development for educators on climate change topics</td>
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<tr>
<td><strong>P-15</strong> Use school gardens or other outdoor learning facilities as a jumping off point to address a multitude of climate related topics</td>
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<tr>
<td><strong>P-16</strong> Develop increased opportunities for students to participate in climate change learning experiences outside of the classroom</td>
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<tr>
<td><strong>P-17</strong> Develop sustainability goals for schools to reach and provide incentives to do so</td>
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<tr>
<td><strong>P-18</strong> Encourage climate change action at home</td>
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<tr>
<td><strong>P-19</strong> Establish cross-departmental partnerships to facilitate implementation of climate goals at County schools</td>
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</tbody>
</table>
CLIMATE ACTION DETAILED TABLES

The tables on the following pages provide details of each CAP action that the County has accomplished in FY22 and plans to make progress on during FY23. In FY23, County departments and agencies will actively work on 77 of 86 actions.
<table>
<thead>
<tr>
<th>Clean Energy Actions</th>
<th>FY22 Plans</th>
<th>FY22 Accomplishments</th>
<th>FY23 Plans</th>
</tr>
</thead>
</table>
| **E-1: Community Choice Energy Program** | • Develop a CCE implementation plan.  
• Participate in the Maryland Public Service Commission workgroup to develop the regulatory framework for the program. | **DEP:**  
- The PSC's Community Choice Energy workgroup continued to meet bi-weekly in order to develop regulations that would govern the County's aggregation program. Topics covered during the year included the timing and process of transitioning customers to the program, the addition of new customers after the initial launch of the program, revisions to the SOS bidding process, and options for handling bad debts. Based on discussion to date, PSC staff have developed a draft structure of the regulations, which need to be finalized in FY23. | **DEP:**  
- Proposed regulations governing the aggregation program need to be finalized by the PSC's Community Choice Energy workgroup in FY23. DEP will develop the operating principles of the aggregation program, such as defining the price tier structure and will continue to work through CCE operational issues in anticipation of a planned launch of the program in October 2024. |
| **E-2: Private Building Solar Photovoltaic Code Requirements** | • Adopt Appendix ZE (a net-zero energy stretch code) with the 2021 International Energy Conservation Code for both commercial and residential, including major alterations. | **DPS:**  
- Anticipates receiving Council approval of Chapter 17 regulations, which will enable DPS to launch the SolarApp, piloted in FY22, and includes an expedited third-party review process for solar installations.  
- Researched the ability to expand the program to EV charging and battery storage permits. | **DPS:**  
- Work to adopt the 2021 building codes, including the International Energy Conservation Code.  
- Expand SolarApp to EV charging and battery storage permits. |
| **E-3: Promote Private Solar Photovoltaic Systems** | • Continue to promote residential solar installations through the annual solar co-op program.  
• Explore programs, incentives, and financing with the Green Bank | **DEP:**  
- 2021 Solar Co-op Success: The inaugural Capital Area Solar Coop concluded in August 2021 with 235 signed contracts to install 2.1 MW of solar PV capacity on single-family homes in the region – | **DEP:**  
- DEP will continue to expand residential solar deployment in FY23 through the 2022 Capital Solar Co-op and other initiatives. The installs for the FY22 Capital Solar Coop participants will be completed in |
and other partners to increase PV systems installations.
- Improve data collection of solar permitting and inspections.

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<tbody>
<tr>
<td>76 of those are in Montgomery County totaling 629 kW of installed capacity to come online by the end of the calendar year 2022.</td>
<td>early FY23. DEP will wrap up a stakeholder input process on how to incorporate a renewable energy allowance for Building Energy Performance Standards and release a recommendations report that will inform the BEPS Regulations. DEP will develop a Clean Energy Action Plan expanding on content from the CAP to outline changes we need to advocate for at the state level to decarbonize the County’s energy supply to achieve our climate goals.</td>
</tr>
<tr>
<td>In FY22, DEP made significant progress on developing recommendations for a renewable energy allowance in the Building Energy Performance Standard with stakeholder engagement and contractor support. The State Climate and Energy Policy Manager was onboarded in March 2022; this position will serve as the primary lead for the Clean Energy Action Plan.</td>
<td>- In Summer 2022, DEP will wrap up a stakeholder input process on how to incorporate a renewable energy allowance for Building Energy Performance Standards and release a recommendations report that will inform the BEPS Regulations.</td>
</tr>
<tr>
<td>The State Climate and Energy Policy Manager was onboarded in March 2022; this position will serve as the primary lead for the Clean Energy Action Plan.</td>
<td>- DEP will develop a Clean Energy Action Plan expanding on content from the CAP to outline changes we need to advocate for at the state level to decarbonize the County’s energy supply to achieve our climate goals.</td>
</tr>
<tr>
<td><strong>MCGB:</strong></td>
<td><strong>MCGB:</strong></td>
</tr>
<tr>
<td>- Community Solar: Supported 2 community solar projects in the year: First, a 273 kW community solar system at Paddington Square with Sunlight General that offers 91 subscriptions with 30% for low-and-moderate income households; Second, a 412 kW system in Silver Spring in a funding in partnership with Sandy Spring Bank.</td>
<td>- Continue efforts to work in all solar PV areas - commercial solar, community solar, homeowner solar - using a variety of investment structures, including power purchase agreements, commercial loans, and C-PACE.</td>
</tr>
<tr>
<td>- Commercial Solar: The Commercial Solar Power Purchase Agreement product supported 4 projects this year: 1 nonprofit, 3 faith-based institutions, 1 affordable housing property. Working with over 30 other faith-based entities to review opportunities for solar PV systems. Closed on a $370,000 loan in partnership with City First Enterprises to fund a 159-kW solar array on Hampshire Towers, an affordable rental property in Takoma Park.</td>
<td>- Focus on private commercial properties, nonprofits, faith-based entities, schools, affordable housing, and homeowners.</td>
</tr>
<tr>
<td>- Low- and Moderate-Income Solar: In March 2022, launched low- and moderate-income solar program for homeowners, called Access Solar, for</td>
<td>- Continue to focus on equitable access to financing of solar PV for homeowners and affordable rental properties.</td>
</tr>
</tbody>
</table>
households earning under $97,500, in conjunction with the Solar Co-Op. The program offers three options: a loan at 600 credit score; a pre-purchase of SRECs to reduce by 10% the upfront cost of the system; and a Power Purchase Agreement (PPA) with Sunnova, a major PPA provider, which offered 3 pricing options, including a new option that aligned pricing with a discount to utility pricing for the term of the PPA.

- **Condominiums**: Continued to work with several condominiums on solar for their properties; engaged with several advocates to address condominium laws and regulations which need to be overcome to make these projects feasible.

**OAG:**
- Held meetings with MCGB and Montgomery Countryside Alliance to inform county residents on what is available for solar - mainly accessory solar.
- Partnered with DEP, MCRA, UMD, and NREL on agrivoltaic pilot project to be located at the Poolesville Golf Course. In planning stage, draft proposal of the pilot has been completed.

**OAG:**
- Work with the Green Bank, DEP to inform farmers of what can be done for solar installation. Get agrivoltaic pilot project up and running.

<table>
<thead>
<tr>
<th>E-4: Public Facility Solar Photovoltaic Installations and Groundwork</th>
<th>DEP:</th>
<th>DEP:</th>
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</thead>
<tbody>
<tr>
<td>• Complete the Oaks landfill solar installation, generating 6 megawatts of electricity.</td>
<td>- Identified agrivoltaic pilot demonstration site on Revenue Authority property adjacent to the Poolesville Golf Club; developed partnerships with the National Renewable Energy Laboratory and the Urban Ecosystem and Sustainable Built Environments Laboratory, Department of Environmental Science and Technology, at the University of Maryland to design the pilot and</td>
<td>- Depending on cost and grant funding, the County hopes to break ground on the project sometime in FY23 and establish a contract with UMD’s Urban Ecosystem and Sustainable Built Environments Laboratory to conduct research related to the agricultural and economic viability of agrivoltaics. While there is $50,000 in the FY23 budget, supplemental funds will be needed. Funding</td>
</tr>
<tr>
<td>• Complete the Scotland Community Center resilience hub and solar installation.</td>
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<tr>
<td>• Complete Phase I of the Brookville Bus Depot microgrid</td>
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and electric bus charging station installation.
- Implement solar installations at selected MCPS schools.
- Launch agrivoltaic study project in the Agricultural Reserve.
- Implement solar installations at selected M-NCPPC locations.

- Conduct research on the agricultural and economic viability of agrivoltaics. Submitted Concept Paper for Department of Energy Foundational Agrivoltaic Research for Megawatt Scale (FARMS) grant. Cost estimates for the configuration are being estimated.

**DGS & M-NCPPC Planning:**
- Oaks Landfill 6MW Solar Project is scheduled for completion in late 2022.

**MCGB:**
- Stayed engaged with MCDOT as it looks to issue an RFP for a project that would use 4 garages for community solar.

**MCPS:**
- Design work began on new solar installations on roofs, a demonstration solar parking lot canopy, and demonstration solar-powered parking lot lights.

- Issue solicitation for solar installations on County facilities.

**MCPS:**
- Anticipates 4 solar sites to be installed at schools in FY23 (including 1 solar expansion of an existing school).
- Initiate design for an additional 4 solar sites.
- Purchase off-site ground-mounted solar in PJM region.

**DGS:**
- Evaluate potential of expanding Oaks Landfill 6MW Solar Project
- Microgrid project is underway at the Animal Shelter building; it will be completed in FY23.
- Microgrid project underway at Equipment Maintenance & Transit Operations Center; phase I-Solar PV will begin FY23.
- Phase 1 of Brookville bus maintenance facility microgrid project will be completed by the start of FY23. Expedite Phase 2 of the project in FY23 to enable up to 70 EV buses to be charged at this location; includes installation of 2 additional onsite generation units and 10-15 additional EV chargers.
- Issue solicitation for solar installations on County facilities.

**MCGB:**
- Continue engagement with County departments to explore means that MCGB can offer support.
<table>
<thead>
<tr>
<th><strong>M-NCPPC Parks:</strong></th>
<th><strong>M-NCPPC Parks:</strong></th>
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<tbody>
<tr>
<td>- Purchased all materials for the installation of a 67 kW rooftop solar array in Black Hill Regional Park on the maintenance yard building. The system will be constructed next fiscal year.</td>
<td>- Installation of a 67 kW rooftop solar array at Blackhill Maintenance Yard will begin, with an estimated annual production of 80,000 kWh.</td>
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<tr>
<td></td>
<td>- Recently contracted out two rooftop solar installations on Meadowbrook and Wheaton Maintenance Yards. Construction will begin next fiscal year. The two systems combined are 122 kW rooftop arrays with an estimated annual production of 169,000 kWh.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th><strong>E-5: Advocate for a 100% Renewable Portfolio Standard by 2030 (Note in FY22 Climate Work Plan)</strong></th>
<th><strong>DEP:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>- Onboarded the State Energy and Climate Policy Manager position (approved in the FY22 budget) in late March 2022, who will begin undertaking advocacy on a 100% RPS in Maryland.</td>
<td>- DEP will continue to engage in the 100% RPS Study Work Group convened by Maryland’s Department of Natural Resources.</td>
</tr>
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</table>

**DEP:**

- Onboarded the State Energy and Climate Policy Manager position (approved in the FY22 budget) in late March 2022, who will begin undertaking advocacy on a 100% RPS in Maryland.
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</thead>
<tbody>
<tr>
<td><strong>B-1: Electrification Requirements for Existing Commercial and Public Buildings</strong></td>
<td><strong>DPS:</strong>&lt;br&gt;- Reviewing 2021 building codes (underway), including the International Energy Conservation Code, in preparation for adoption in FY23</td>
<td><strong>DGS:</strong>&lt;br&gt;- Convert Holiday Park senior center to a net-zero building. This project is the County’s first net-zero conversion of an existing building and will include installation of solar glass windows. DGS will track the performance of the solar glass to capture learning from the costs and issues associated with converting this building to net-zero. Will apply lessons learned to other County facilities.&lt;br&gt;- Plans to implement approximately 20 lighting retrofit projects at County facilities.&lt;br&gt;- Plans to implement approximately 18 Monitoring Based Commissioning (MBCx) projects at County facilities and upgrade Building Automation Systems.</td>
<td><strong>MCPS:</strong>&lt;br&gt;- Look for most efficient equipment as MCPS completes HVAC projects on existing buildings.&lt;br&gt;- Use Maryland Energy Administration grant to determine approaches for decarbonizing existing school buildings.&lt;br&gt;- MCPS’s Sustainability Initiatives capital project was approved in the FY23 budget. Projects will include retrofits to improve energy efficiency and upgrades to building automated systems.&lt;br&gt;- <strong>DEP:</strong>&lt;br&gt;- See Action B-5 for the FY23 update.</td>
</tr>
<tr>
<td><strong>B-2: Electrification Requirements for</strong></td>
<td><strong>DPS</strong></td>
<td><strong>DEP:</strong>&lt;br&gt;</td>
<td><strong>DEP:</strong>&lt;br&gt;</td>
</tr>
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</table>
### Existing Residential Buildings

- Reviewing 2021 building codes (underway), including the International Energy Conservation Code in preparation for adoption in FY23

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### B-3: Energy Performance Standard for Existing Commercial and Multifamily Buildings

- Complete building typology study to inform BEPS standards.
- Participate in public hearing and Council work sessions about the Building Energy Performance Standard bill; continue outreach to external stakeholders.
- Subject to the passage of the bill, draft regulations and identify state-level legislative solutions to overcome enforcement challenges.
- Subject to the passage of the bill, establish the BEPS Advisory Board.
- Develop position descriptions for BEPS program implementation.
- Continue exploration of expanding DC Building Innovation Hub into a regional entity.

#### DEP:
- Building Energy Performance Standards (BEPS) Bill 16-21 was signed into law on May 2, 2022, and will go into effect on August 1, 2022.
- DEP completed several studies related to BEPS regulations and implementation, including the BEPS Technical Report to inform standard-setting and a BEPS Solar and Renewable Energy Credit report to inform the treatment of renewable energy in BEPS compliance.
- The Building Performance Improvement Board application period closed on June 10, 2022, and a review is underway.
- Calendar year 2021 energy benchmarking reports were due on June 1. As of mid-June, 77% of covered properties have submitted reports, and DEP is undertaking compliance activities. Benchmarking scorecards were sent to compliant buildings.
- DEP has continued to brief stakeholders and present to different audiences as the BEPS legislation has progressed and been adopted.

#### MCPS:
- Evaluation of RFP submittals is underway.

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### DEP:
- The Building Performance Improvement Board will be selected and appointed in FY23. DEP will work with the Board to advise on BEPS regulations, to be issued by December 1, 2023.
- DEP will reach out to covered buildings with information about BEPS compliance, especially buildings that are new to energy benchmarking.
- DEP has a study underway related to utility incentives and how it may offset the cost of set improvements; the study will be completed in FY23.

#### MCPS:
- Several schools will receive gym lighting retrofits to LED bulbs during the summer of 2022.
<table>
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<tr>
<th><strong>MCGB:</strong></th>
<th><strong>DEP:</strong></th>
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<tr>
<td>- Technical Assistance: Conducted 8 technical assistance efforts in a pilot program to support commercial property owners with energy assessments to determine current conditions and potential energy improvements for their properties; helps inform a strategy for FY23.</td>
<td>- DEP has been involved in Rocky Mountain Institute's 2022 Electrify cohort in partnership with the City of Takoma Park, Habitat for Humanity Metro Maryland, and the Montgomery County Green Bank to design a building electrification program.</td>
<td>- DEP is participating in the Rocky Mountain Institute's Electrify Cohort throughout the calendar year 2022 to develop a new program for electrification primarily focused on residential homes. DEP is pursuing an RFP for an electrification contractor to assist the residential sector with</td>
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<tr>
<td>- Investments: Supported over $10 million in clean energy projects for commercial and multifamily properties using a variety of its products, including its CLEER program, commercial solar power purchase agreement product, small business energy savings support product, and debt investment in co-lending arrangements with financial partners.</td>
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<tr>
<td>- C-PACE: Assumed administration of the C-PACE program for the County and has been actively marketing the opportunity to investors to join the County's program. Attracted 8 capital providers to support the County's C-PACE program. Working on closing the first C-PACE loan on an energy retrofit project with a faith-based organization.</td>
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<td>- Award contracts for investment grade audits leading to energy services contracts and building retrofits.</td>
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<tr>
<td><strong>MCGB:</strong></td>
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<tr>
<td>- Elevate implementation of commercial clean energy projects through the deployment of its financial and technical assistance resources.</td>
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<td>- Leverage new funding from the County to increase the provision of technical assistance to property owners to assess current property conditions and devise plans to undertake energy savings improvements.</td>
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<td>- Promote the use of its funding programs in partnership with private capital partners that provide affordable and flexible financing options for property owners to undertake planned improvements.</td>
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<td>- Coordinate with the County as the Building Energy Performance Standards are developed to assure Green Bank resources are aligned with the County program and can best serve to support the required property improvements of owners.</td>
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**B-4: Electrification Incentives for Existing Buildings (Not in Climate Work Plan 2022)**
- The FY23 budget includes $1M for electrification incentives and additional staff support for electrification initiatives within DPS. The Electrify Cohort participants are developing a scope of work for an RFP to be released in early FY23.

MCGB:
Working on a large-scale electrification project for an affordable housing property; will transition the property from a central plant that uses natural gas to in-unit electric mini-splits; project is expected to close in the summer 2022.

- DEP will launch a New Electrification Incentive Program in FY23 to provide technical assistance and incentives for electrification in existing residential homes.
- DEP has an electrification study underway as directed by County Council by Bill 44-21; the study will be completed by May 2023. The study will assess what it costs to electrify existing buildings.

MCGB:
Make technical assistance programs available to properties that are seeking to move to full electrification properties to understand the strategies and funding approaches that can support such transitions.

B-5: All-Electric Building Code for New Construction

• Evaluate the adoption of the net-zero energy appendices to the 2021 International Energy Conservation Code and evaluate opportunities to include decarbonization language in the code.

DEP:
- County Executive Elrich and Councilmember Riemer partnered on Bill 13-22 (Comprehensive Building Decarbonization Bill), which was introduced in June 2022 and would require the County Executive to issue all-electric building codes for new construction, major renovations, and additions by January 1, 2024.

DPS:

DEP:
- DEP and DPS will support Bill 13-22 as it moves through the legislative process. New DPS positions approved in the FY23 budget will assist with implementing these all-electric building code requirements.

DPS:
- Work to adopt the 2021 building codes, including the International Energy Conservation Code
- Assess how to start to introduce net-zero energy language in the next code cycle. DPS is signing a contract with the New Buildings Institute to help determine the best path forward relating to energy code amendments. Projecting out a path over the
| B-6: Disincentivize and/or Eliminate Natural Gas in New Construction | • Explore next steps to address state-level preemption issues that constrain the County's ability to ban natural gas in new construction.  
• Develop alternative strategies to a natural gas ban that disincentivize fossil fuels or incentivize electrification. | **DEP:**  
- The Climate Action Plan, released in June 2021, notes that "local jurisdictions in the state of Maryland face an implied preemption that restricts natural gas bans at the local level." Since the CAP was released, more information has come to light during FY22. The Climate Team believes this statement in the CAP no longer reflects the current thinking on the topic of natural gas bans at the local level. As with any potential implied preemption, the courts will determine whether preemption exists. Montgomery County will continue to work in support of Governor Hogan's Commission on Climate Change recommendation to electrify buildings, including all new construction by 2024, by supporting Bill 13-22 (Comprehensive Building Decarbonization Bill) and various education, outreach, and incentive efforts to support building electrification. | **DEP:**  
- In FY23, the County will support Bill 13-22 (Comprehensive Building Decarbonization Legislation) and various education, outreach, and incentive efforts to support building electrification. The County will also continue to advocate at the state level (General Assembly and Public Service Commission) that natural gas no longer be incentivized through the EmPOWER Maryland program and for building codes to encourage and/or require electrification. |
|---|---|---|---|
| B-7: Net Zero Energy Building Code for New Construction | • Evaluate opportunities to reach net-zero energy in both commercial and residential construction through the 2021 codes.  
• The Department of General Services has embarked on | **DPS:**  
- The 2018 International Green Construction Code, which was adopted in September 2021, will | **DGS:**  
- Continue to build new buildings with net-zero targets.  
**DPS:**  
- Recruit two new positions approved in the FY23 budget. One position will focus on electrification and decarbonization; the second position will focus on green buildings and the International Green Building Code. |
<table>
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<tr>
<th>Demonstrating commitment for net-zero buildings; the design standard for new buildings is that they are net zero.</th>
<th>Advance energy goals through enforcement of new construction over 5,000 square feet.</th>
<th>Decarbonization; the second position will focus on green buildings and the International Green Building Code.</th>
</tr>
</thead>
</table>
| • MCPS will assess if schools that are currently under construction can be made net zero. |  | **MCPS:**  
- For new buildings, MCPS intends to minimize energy use intensity (EUI) per the new sustainability policy, called Policy ECA, Sustainability. |
|  |  | **M-NCPPC – Parks:**  
- Incorporating net zero goals in new building construction. |
<table>
<thead>
<tr>
<th>Transportation Actions</th>
<th>FY22 Plans</th>
<th>FY22 Accomplishments</th>
<th>FY23 Plans</th>
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</table>
| T-1: Expand Public Transit | • Restore County-operated bus services to full budgeted level in FY22.  
• Support project progress of Purple Line, Bethesda Metro South Entrance, Capital Crescent Trail, and Silver Spring Green Trail.  
• Continue design efforts for Veirs Mill Bus Rapid Transit (BRT) and 355 BRT; begin preliminary engineering for US29 BRT Phase 2; and perform preliminary engineering for Great Seneca Science Corridor Transit Enhancements.  
• Pursue grant funding and federal funding opportunities.  
• Initiate transportation funding workgroup to identify funding resources for transit expansion.  
• Reinstitute Flex demand-response service.  
• Implement new bus priority program, including acquiring State approvals for and implementation of dedicated bus lanes in three defined areas: Wheaton, Germantown, and US 29. | MCDOT:  
- Achieved goal of restoring Ride On service levels to 80% of pre-Covid levels by January 2022; plans in place to reach 90% of pre-Covid service levels by July 2022. Active recruitment through job fairs and media engagement and advertising resulted in a large operator training class enrolled for Q4.  
- Preliminary design continues to advance for both Veirs Mill Road and MD 355 BRT.  
Preliminary design for US 29 BRT Phase 2 is awaiting completion of the US 29 Mobility and Reliability Study Part 2, requested by County Council T&E Committee, to be completed and should start in FY23 Preliminary engineering for Great Seneca Science Corridor Transit Network is underway. Initiated Planning for the New Hampshire Avenue and North Bethesda Transitway BRT corridors.  
- The approved FY23-28 CIP includes full funding for design and construction of both the MD355 Central BRT project and the Veirs Mill BRT project. The 6-year CIP also includes funding final design for the northern and southern portions of the MD355 BRT. MCDOT is preparing to submit the Veirs Mill Road BRT for consideration as a Small Starts Federal Transit Administration Capital Infrastructure Grant project by the end of the fiscal year.  
- Transportation infrastructure funding workgroup established two subgroups: one group focused on evaluating capital funding needs and MCDOT:  
- MD 355 BRT and Veirs Mill BRT design has started and will continue. Construction is fully funded for the 355 BRT Central Phase and Veirs Mill Rd BRT in the 6-year CIP.  
- Continued planning work on US29 Phase 2 BRT. Planning studies are underway for the New Hampshire Avenue BRT and North Bethesda Transitway projects.  
- Planning was completed, and design has started for the first 2 lines of the Great Seneca Transit Network. Construction of the first 2 lines is funded in the 6-year CIP.  
- Ride On Reimagine study underway, geared to make Ride On service more effective and will overlap with WMATA Bus Redesign Study in the county.  
- Move forward with finalization of a memorandum of understanding with MDOT SHA to implement bus lanes in Wheaton in the summer of calendar 2022. The latest draft of the MOU was routed to the Office of the County Atty on 7-1-2022 as a precursor to DOT approval/signature and routing to MDOT SHA for final approval. Process to be complete in early July 2022.  
- Work with WMATA to plan and design a tactical bus lane in Silver Spring area and also planning on queue jump location opportunities.  
- Development of Program of Requirements for new net zero bus maintenance and storage facility to serve is electric buses underway. |
<table>
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<tr>
<th>Initiatives</th>
<th>Details</th>
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| • Initiate Reimagine Ride On system redesign plan and coordinate with and support WMATA bus network redesign plan.  
• Conduct a study of potential for further reduced or free bus fares for all or for sub-markets of the population.  
• Expand free fare hours of service on Ride On and Metrobus for seniors and people with disabilities. | Identifying suitable financing mechanisms, and the other group focused on best-practices-related policies and organizational structures to support more efficient and effective implementation of capital improvement projects to support transportation.  
- Continues to work with MDOT SHA regarding the memorandum of understanding to implement bus lanes in Wheaton in summer of 2022. Started discussions with MDOT on potential bus lanes on University Boulevard, and with WMATA on design of transit priority improvements on Georgia Avenue.  
- Reimagine Ride On hired lead consultant, VHB, and initial background work is in progress, including technical research and input from government stakeholders. Extensive public outreach program will begin in the summer of 2022.  
- Fare Equity Study was completed, and a recommendation made from the County Executive to Council. Council voted to extend the free fare policy until July 2, 2022. A fare structure of half-price for most routes was adopted by Council, making most Ride On fares $1. An extensive outreach campaign will be conducted prior to implementation.  
Free fares have been made permanent on Ride On for those under age 18 with Kids Ride Free and for Seniors and persons with disabilities. All these groups now ride Ride On for free all day every day.  
- Supporting the WMATA fare demonstration sale that reduced the cost of bus and rail passes and |
| • Fare Equity Study was completed, and a recommendation made from the County Executive to Council. Council voted to extend the free fare policy until July 2, 2022. A fare structure of half-price for most routes was adopted by Council, making most Ride On fares $1. An extensive outreach campaign will be conducted prior to implementation.  
Free fares have been made permanent on Ride On for those under age 18 with Kids Ride Free and for Seniors and persons with disabilities. All these groups now ride Ride On for free all day every day.  
- Supporting the WMATA fare demonstration sale that reduced the cost of bus and rail passes and | - $1 fares on Ride On will be implemented beginning August 1, 2022. Extensive public outreach campaign will be conducted prior to ensure the riding public is aware of the re-institution of fares at this half-price level. |
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<th>T-2: Expand Active Transportation and Shared Micromobility Network</th>
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<td>• Advance implementation of bikeway recommendations in the Bicycle Master Plan through capital projects and development approvals. Complement this low-stress bikeway network with expansion of bicycle parking resources, including corrals for dockless vehicles. Expand service areas and continue to pilot test personal mobility options (including shared e-scooters &amp; bikes) with view to move beyond the current pilot program to a longer-term program structure and financial plan. • Sponsor Learn-to-Ride bike and e-scooter classes; sponsor Bike-to-Work Day, Walk &amp; Ride Challenge, Car-Free Day, and</td>
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<td>Initiatives</td>
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<td>other initiatives focused on promoting non-auto modes.</td>
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<td>• Continue aspects of the Shared Streets program to encourage active transportation and community use of public rights-of-way.</td>
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<td>• Transmit the proposed Complete Streets Design Guide to Council for adoption and begin efforts to amend the County Code and county regulations to be consistent with the Guide.</td>
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<tr>
<td>• Coordinate with Transportation Planning Board consultant and Town of Kensington on Transportation Land-Use Connections grant for Kensington - Connecticut Avenue Corridor Bike/Ped Access and Safety Study.</td>
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<td>• Continue and increase marketing and outreach efforts for recently established Bike Match MoCo program.</td>
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<thead>
<tr>
<th>Projects/Activities</th>
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<tr>
<td>Tuckerman Lane Sidewalk/Bikeway, Veirs Mill Road BiPPA, Washington Grove Connector.</td>
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<td>- Completed a pilot of the Grove Street Neighborhood Greenway.</td>
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<td>- Working with County representatives, municipalities, and private e-scooter/e-bike operators to expand service areas covered by the micromobility pilot. Micromobility services were successfully expanded to the Germantown area in Q2.</td>
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<td>- Proposed &amp; received funding for placement of additional micromobility corrals in pilot areas.</td>
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<td>- Continues to sponsor Learn-to-Ride bike and e-scooter training classes, which are being well-attended. Sponsored 6 Pit Stops around the County as part of the annual region-wide celebration of Bike to Work Day. This event encourages residents and employees in the County to consider cycling as an option for commuting and other travel. This year’s event was a huge success, with large numbers of attendees happy to be back in person at this</td>
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<tr>
<td>- Building on an FY22 effort to conduct an equity review of sidewalk projects, MCDOT will undertake a deeper dive analysis of the equity implications &amp; distribution of benefits and outcomes of its transportation projects.</td>
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</table>
- Coordinating with regional micromobility programs around the region to support first-mile/last-mile mobility and safe operations.

MCDOT presented the latest updates on our micromobility programs at a regional Shared Micromobility Workshop sponsored by MWCOG at the end of FY22.

- Shared Streets “Block Permit” program remains available as a free service to residents for on-demand temporary street closures to thru traffic.

- The Complete Streets Design Guide, completed by MCDOT and Montgomery Planning, has been approved by the Planning Board. Updates to the County Code and regulations are under finalization for transmittal to Council in early FY23.

- The Planning Board reviewed the Capital Crescent Trail under MD-355 and the Capital Crescent Surface Trail Phase 2 on October 14, 2021.

- Coordinated with the Town of Kensington and consultants Mead Hunt on a Connecticut Avenue Bike/Ped Mobility Study being conducted under a Transportation Planning Board (TPB) Technical Assistance award. Data gathering and field reviews were conducted, and initial design recommendations were made and distributed for comment by the project’s Technical Advisory Committee. A survey was conducted to obtain feedback from the public. Findings and preliminary recommendations were presented at...
a public meeting to solicit feedback. A final report will be available with findings and recommendations and a preliminary engineering design for several of the recommended options.

- Received 229 new applications for bikes needed, and 160 bikes were donated, all of which have been distributed to individuals on the waitlist. There are 356 applicants remaining on the waiting list to receive donated bikes.
- Selected the Capital Crescent Trail Tunnel and associated bike parking facility as the project to apply for funding from FTA’s RAISE grant program. The grant application was submitted in Q4.
- Won a competitive award of $85,000 from the Transportation Planning Board (TPB) for the preliminary engineering of the Walter Johnson Road shared-use path connection to the Germantown MARC Station within Montgomery County. Award comes from TPB’s “Transit Within Reach” program and will improve the ability of pedestrians and cyclists to access the MARC station.

**M-NCPPC - Planning:**
- Complete Streets Design Guide, developed through a cooperative effort of MCDOT and M-NCPPC, has been approved by the Planning Board. Updates to the County Code and regulations are in development and expected to be transmitted to Council in Spring 2022.
- The Planning Board reviewed the Capital Crescent Trail under MD-355 and the Capital Crescent Trail under MD-355 and the

**M-NCPPC - Planning:**
- Pedestrian Master Plan will go to Planning Board later this CY and will be taken up by County Council in early 2023.
- The Complete Streets Design Guide will be presented to County Council in early FY23. In the Fall, the County Council will conduct a public hearing and review of county code changes.
<table>
<thead>
<tr>
<th>Crescent Surface Trail Phase 2 on October 14, 2021.</th>
<th>MCDOT and the Planning Department won a grant from MWCOG’s Transportation and Land Use Connections program to update the county’s lighting standards.</th>
</tr>
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<tr>
<td>- Completed the Pedestrian Level of Comfort map, a component of the Pedestrian Master Plan underway and completed the Pedestrian Audit Toolkit, and hosted a training session for community members in September.</td>
<td>- Work with MCDOT to do an add-on to the Complete Streets Design Guide (could be a separate chapter or amendment) to put design guidance on shared streets for how those can be built out in the County.</td>
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<tr>
<td>- Planning Board reviewed 2 Fenton Street Cycle Track projects on January 27, 2022.</td>
<td>- Develop guidance on protected intersection design for regulatory projects.</td>
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<tr>
<td>- Complete the Pedestrian Master Plan Existing Conditions Report.</td>
<td>- With MCDOT, Planning has a bikeway branding effort to market the County's bicycle infrastructure to increase bicycling in the County.</td>
</tr>
<tr>
<td>- MCDOT and the Planning Department won a grant from MWCOG’s Transportation and Land Use Connections program to update the county’s lighting standards.</td>
<td>- Montgomery Planning will submit its Access Management Study to the Planning Board on July 28. The Access Management Study examines existing practices in Montgomery County managing property and corridor access and provides recommendations to improve access management based on best practices and consistent with Vision Zero and a Complete Streets framework. Its recommendations will provide a systemic way to improve the safety and efficiency of moving people and goods while reducing conflicts between all modes using and crossing roadways, including pedestrians, bicycles, and vehicles in all urban, suburban, and rural areas. Follow-on work efforts could include modifications to the County code by M-NCPPC and MCDOT.</td>
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**M-NCPPC – Parks:**

- Recently completed the Hadon Trail Connection, which added additional paved trails to connect the Long Branch Trail on Haddon Dr. This is one of several projects planned in the Long Branch Stream Valley Park corridor with a goal of creating a continuous and updated Long Branch Trail.

- Work with MCDOT to do an add-on to the Complete Streets Design Guide (could be a separate chapter or amendment) to put design guidance on shared streets for how those can be built out in the County.

- Develop guidance on protected intersection design for regulatory projects.

- With MCDOT, Planning has a bikeway branding effort to market the County's bicycle infrastructure to increase bicycling in the County.

- Montgomery Planning will submit its Access Management Study to the Planning Board on July 28. The Access Management Study examines existing practices in Montgomery County managing property and corridor access and provides recommendations to improve access management based on best practices and consistent with Vision Zero and a Complete Streets framework. Its recommendations will provide a systemic way to improve the safety and efficiency of moving people and goods while reducing conflicts between all modes using and crossing roadways, including pedestrians, bicycles, and vehicles in all urban, suburban, and rural areas. Follow-on work efforts could include modifications to the County code by M-NCPPC and MCDOT.

**M-NCPPC – Parks:**

- 2022 Parks, Recreation, and Open Space Plan, approval set for July 2022, recommends improving active transportation using parks and trails to connect people to their work locations.

- Wheaton Regional Park Master Plan is in process. Current draft of Wheaton Regional Park Master Plan
| T-3: Private Vehicle Electrification Incentives and Disincentives | DEP & MCDOT:  
- MCDOT and DEP launched the EV Purchasing Co-op Pilot in January 2022 and received over 1,000 pledges from residents and local businesses through May 2022 to purchase an EV for their next vehicle. With support from its contractor, Electrification Coalition, the County recruited and trained local auto dealerships to join an "Electrified Dealers" network. In June 2022, the County connected residents who took the pledge and opt-in with dealerships. Goal was to get 1,000 residents and 50 businesses in Montgomery County to sign a pledge to make their next car (or fleet purchase) an EV.  
- DEP onboarded the Zero-Emissions Vehicle Senior Planning Specialist position (approved in the FY22 budget) in March 2022. DEP’s new ZEV Senior Planning Specialist is fully active in these programs.  
- MCDOT and DEP coordinated with local partners, including EV Owners Association of DC (EVADC), on the Go Electric event in March 2022, which featured demonstrations of EV models by owners. The County planned additional electric vehicle showcase events in April-May 2022.  
- Coordinated with Poolesville Green for participation in National Drive Electric Week (NDEW) with DEP, including outreach at the Poolesville Day event. An ad campaign for the NDEW event ran on the exteriors of Ride On Electric Buses.  
- See related MCDOT progress in T-7. | DEP:  
- Phase 2 of the Electric Vehicle Purchasing Co-op will launch in FY23, including the possibility of negotiating discounts through the dealership network (subject to supply chain issues getting resolved).  
- DEP will research what kind of incentives private commercial vehicle fleets could make use of, including exploring potential financial options for fleet electrification.  
- MWCOG is leading a region-wide EV charging planning effort that will get underway in FY23; the County is contributing staff support towards this effort. |
| T-4: Constrain Cars in Urban Areas, Limit New Road Construction | MCDOT:  
- Removed Mid-County Highway from region’s 2022 Transportation Long Range Plan, Visualize 2045.  
- Transportation Planning Board (TPB) sponsored and reviewed the Climate Change Mitigation Study (December 2021) and developed goals and strategies intended to reach a regional consensus for Visualize 2045, including pricing and VMT reduction strategies. MC was successful in getting an amendment to the plan passed that increased the goals for Visualize 2045 over those originally proposed. | MCDOT:  
- As a result of efforts by MC to amend the goals in the region’s long-range transportation plan, “Visualize 2045,” the TPB-adopted target for reduction in GHG emissions for the region has now been increased from 32% to 50% by 2030. More ambitious and impactful strategies will need to be adopted by regional jurisdictions in order to meet that goal.  
- The long-range fiscally constrained transportation plan “Visualize 2045” will be updated in 2024 with a call for projects to be identified by early 2023. MCDOT will evaluate existing projects and any new projects in both the long-range Plan and the near-term (6-year) Transportation Improvements Plan (TIP) with regard to their inclusion in those plans. The County may consider dropping major roadway capacity expansion projects already in the plans to help meet the County’s and the region’s climate goals. The submitted projects from the region will be assessed by TPB on GHG reduction criteria for inclusion in the revised transportation plan. |
| --- | --- | --- |
| M-NCPPC – Parks:  
- During COVID, Parks launched Open Parkways program to provide more outdoor space for recreation and exercise by closing portions of the parkway to vehicles on weekends. These sites also connect non-vehicle users to several larger trail systems and parks. These car-free streets are exclusively for pedestrians and bikers; no motorized vehicles are allowed. | M-NCPPC – Parks:  
- Due to the overwhelming popularity of the Open Parkways initiative, the program remains.  
- With MCDOT launched a pilot program in June 2022 to study the potential of permanently reducing Little Falls Parkway from four lanes to two (one in each direction) between River Road and Arlington Road (1.3 miles). The study will continue through the fall of 2022. The goal of the pilot project is to |
| T-5: Zero Emission Public Buses and School Buses | **MCDOT:**  
- Through the ongoing task to develop the Zero Emissions Bus (ZEB) Transition Plan, MCDOT completed a “quick’ transition plan in Q3 to include with the upcoming Low/No grant application at the end of May (Q4). This element of the grant will be for the design and construction of a hydrogen fuel cell station and 13 hydrogen buses for Ride On. In addition, to this task, the team developed a Program of Requirements (POR) for the new bus depot. Development of the PEER analysis/model for the 2027 and 2035 ZEB overall transition plans is ongoing. The ZEB Plan is on track to be completed by mid-2023.  
- Received debriefing from FTA with feedback on its prior RAISE grant application. Information obtained was used to inform the Low/No grant application cited above, which includes a proposed hydrogen fueling station and 13 hydrogen-fueled buses for Ride On.  
- Supports WMATA’s goal to achieve a zero-emissions bus fleet by 2045. | eliminate unintended traffic consequences in the surrounding neighborhoods while providing the long–term benefits of the popular Open Parkways program. If the study is successful, the excess space from the narrowed road will be used to create a new linear park or other recreational amenities, which will be accessible to park users seven days a week. | - Next 10 electric Ride-On buses will be put into service. Ride-On will operate a total of 14 EV buses in FY23.  
- If the No/Low Emissions grant application is approved, the County will develop a project to construct a hydrogen station and purchase 13 hydrogen buses.  
- Finalize the program of requirements for a new net-zero bus maintenance and storage facility to serve electric buses. |
| • Continue development of a zero-emissions transit plan.  
• Place an additional 10 EV transit buses into service for Ride On.  
• Release RFP for next round of electric transit buses.  
• Research hydrogen fueling options for transit and large vehicles and pursue federal grant opportunities (e.g., USDOT’s RAISE Grants) for hydrogen fuel cell fueling site and vehicle acquisition.  
• Finalize MCPS order for first 25 EV school buses (expected Fall 2021).  
• Continue regional collaboration with other jurisdictions and transit providers and local collaboration between MCDOT, DGS, MCPS, and others on Zero Emissions Vehicle (ZEV) bus contracting model. | **MCDOT:**  
- Next 10 electric Ride-On buses will be put into service. Ride-On will operate a total of 14 EV buses in FY23.  
- If the No/Low Emissions grant application is approved, the County will develop a project to construct a hydrogen station and purchase 13 hydrogen buses.  
- Finalize the program of requirements for a new net-zero bus maintenance and storage facility to serve electric buses. |
<table>
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<tr>
<th>T-6: Electrify County and Public Agencies Fleet</th>
<th>MCPS:</th>
<th>MCPS:</th>
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<tr>
<td>• Complete study to right-size the County vehicle fleet and develop a targeted approach to transition the County's fleet to ZEVs, including necessary infrastructure and support facilities.</td>
<td>- As of June 28, 2022, MCPS received all 25 scheduled EV buses. There have been a few mechanical problems and recalls, but in total, the buses have been driven more than 20,000 miles with few problems. Testing and data collection continue with a total of 16 to 18 in service at any one time on selected routes and transport students to Falls Church, VA, and Prince George's County. Some buses can manage the entire day on one charge, while others need small recharging to complete the day. We have learned that the ambient outside temperature plays a role in how the batteries perform.</td>
<td>- Continue testing and increasing electric school bus fleet. Use electric buses on summer school routes and increase the number of drivers who are familiar with the buses.</td>
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<td>M-NCPPC – Parks:</td>
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<td>- Hiring a new fleet manager; the role will include responsibility for electrifying Parks' fleet and assisting the department in greenhouse gas reduction goals.</td>
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<td>- 3 new electric trucks and an electric work van were purchased and will become part of the Parks fleet in the upcoming fiscal year.</td>
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<td>DGS:</td>
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<td>- Issued an RFP for procuring 100 EV Ride On Buses over the next 3 years. FY23 will be the first year of this procurement, and DGS anticipates ordering approximately 45 EV buses in FY23.</td>
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<td>- Investigating the possibility of funding additional EV buses.</td>
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<td>- Developing a plan for bringing hydrogen to the Gaithersburg bus maintenance facility to enable local hydrogen generation to power Ride On buses.</td>
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<td>MCPS:</td>
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<td>- Purchase order issued for new pilot vehicles, 1 full electric van, and 2 electric-hybrid vehicles; delivery expected early FY23.</td>
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<td>MCPS:</td>
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<td>- MCPS Sustainability Policy (ECA) includes purchasing fleet vehicles that are cleaner fuel or hybrid/electric. Pilots underway.</td>
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<td></td>
<td>- Collaborating with PEPCO and solar vendors to support the county infrastructure.</td>
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| **T-7: Expand the Electric Vehicle Charging Network** | **MCDOT:**
- Finalized guidelines and Council adopted code changes to section 49-11 to allow for homeowner-installed vehicle charging facilities within the public right of way.
- With DGS, added 2 EV charging stations to Garage 45 in Wheaton for county employee use for fleet and private vehicles. Planning on adding two dual-port EV charging stations to Garage 13 in Wheaton. The stations have been ordered and electrical contractor will begin prep work shortly.
- Continues to advance partnership with PEPCO to bring 8 dual-port EV charging stations to the County Parking Lot Districts (PLDs), 4 to be located in Bethesda and 4 in Silver Spring. Planning and design phases are complete, and Pepco has submitted building permits to DPS.
- Installed 42 EV charging station wayfinding signs in Bethesda, Silver Spring, and Wheaton. The signs are in and around public parking facilities that currently have EV charging stations. The
| **DEP:**
- DEP will coordinate a monthly intergovernmental meeting between Montgomery County agencies, including MCDOT and DGS, M-NCPPC, and MCPS, to share and coordinate plans and procurement strategies for electrification of fleet vehicles.
| **DGS:**
- Implementing second phase of the zero-emissions plan for County fleet.
- Work with departments to right-size vehicles and re-imagine operations without the use of internal combustion engine vehicles.
| **MCDOT:**
- Federal IIJA funding will be made available to the state to expand EV charging capacity along transportation corridors, primarily US 29, I-495, and I-270. The State of Maryland will publish a draft plan in July and a final report in August to lay out plans for using federal funds under the NEVI (National Electric Vehicle Infrastructure) program to expand EV charging along these routes. MCDOT will be reviewing those plans in coordination with other County agencies.
- Add EV charging to additional County parking garages to the maximum extent possible, working with Pepco and other resources.
- Submitted additional 3 sites for streetlight charging for coordination and approval internally (to Division of Parking). After they are approved, they will be submitted to PEPCO for final approval. Final approval from PEPCO is anticipated by the end of July/ early August 2022.
| Encourage or require EV charging stations in a wider range of projects.  
- Implement EV charging station wayfinding signage program to facilitate EV access and reinforce awareness of the general public about widespread availability of EV charging.  
- Install pilot EV charging station at an MCPS administrative center. | Wayfinding signage was installed to assist current EV owners in locating charging stations available in public parking facilities and create public awareness of the County's charging infrastructure to encourage more EV purchasing/leasing. Currently, 20 Level 2 charging stations are available at Bethesda, Silver Spring, and Wheaton parking facilities.  
- MCDOT's collaboration with PEPCO regarding streetlight charging is ongoing. PEPCO denied 3 locations previously under consideration.  
New/alternate locations for consideration with PEPCO are under development, and an update on viability and PEPCO acceptance should be available for Q4. | DEP:  
- DEP will provide staff support to the Metropolitan Washington Council of Governments to develop a regional electric vehicle infrastructure plan.  
- DEP will provide outreach and education to condominiums, co-ops, and townhome communities to encourage expansion of EV charging infrastructure in partnership with the Office of Common Ownership Communities, Montgomery County Green Bank, and Department of Permitting Services. In addition, DEP will explore additional programs that streamline and support multifamily communities to install EV charging.  
- DEP will coordinate the County's response to funding opportunities for EV charging infrastructure made available through the Bipartisan Infrastructure Law and the MD Zero Emissions Vehicle Infrastructure Plan. |

| MCGB:  
- **EV Chargers:** Working on an EV charger installation program for affordable rental properties supported by a grant that would help install over 25 EV chargers in these properties. Set to launch in summer 2022.  
Also funded the installation of 6 dual chargers at Clarksburg Condominiums to support the interest of the condominium owners to meet demand at the property. | M-NCPPC - Planning:  
Implementing EV charging requirements for new projects and as part of the public benefits, list | M-NCPPC - Planning:  
FY23 approved work program includes conducting a review of the points system in the zoning code for public benefits related to higher density projects.  
|
would require a zoning text amendment to implement.

**M-NCPPC – Parks:**
- Currently working with both Pepco and BGE in their respective service areas to install 42 parking spaces with charging stations (36 spaces with Pepco, 6 spaces with BGE) across 11 parks.
- Spring of 2022, Pepco began construction on 6 charging stations, which will provide 11 parking spaces for charging across 5 parks. Construction was recently completed on EV charging stations in South Germantown Recreational Park and Big Pines Local Park, which are now fully operational.

May be a way to begin looking at EV charging infrastructure provisions in the zoning code.

**M-NCPPC – Parks:**
- Will continue the installation of Public EV charging stations through the partnership with Pepco and BGE. The second round of EV installation is planned for Fall 2022, once review and permitting is complete. Parks is exploring options to expand the program with other electric utility providers in the county.
- Partnership with Pepco/BGE is in the pilot phase, but if the program goes smoothly, Montgomery Parks would be interested in installing more Pepco/BGE EV chargers at other locations.

**DGS:**
- DGS has awarded a contract for the installation of EV charging stations at approximately 65 County facilities geographically distributed throughout the County, including libraries, recreation centers, and swimming pools. All these EV chargers will be publicly accessible. The installation work will get underway in FY23.
- Receive and deploy portable EV chargers.

**MCPS:**
- 3 pilot sites identified for EV charging stations. (CESC, Rockville High School, Gaithersburg Middle – these stations will be for public use.) One additional site has been identified for fleet vehicle charging.
- Explore an employee campaign/program for public transportation.
<table>
<thead>
<tr>
<th>T-8: Transportation Demand Management and Telework Strategies</th>
<th>MCDOT:</th>
<th>MCDOT:</th>
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<tr>
<td>• Finalize NextGen Transportation Demand Management regulations.</td>
<td>- Finalization of the NextGen TDM regulations is underway prior to submitting for final approval.</td>
<td>- Travel Smart Ambassador program is funded in the FY23 budget. This program will seek to raise community awareness of the entire range of transportation options to reduce GHG emissions, promote resiliency and create a more livable, equitable community. The program will work to reach population subgroups not “tuned in” to typical media and messaging, including vulnerable groups such as lower-income and ethnic minorities, as well as suburban neighborhoods where many residents have minimal knowledge of options available.</td>
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<td>• Implement requirements for TDM strategies to be adopted for new and existing projects in additional areas of the County under NextGen.</td>
<td>- Implementation of the White Oak TMD is underway.</td>
<td>- Plans to provide increased outreach in White Oak and countywide.</td>
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<td>• Begin implementation of White Oak Transportation Management District</td>
<td>- Promoting the FareShare program to private sector employers and employees. Many employees, including those in the County government, receive information on available transit/vanpool subsidy programs during Benefits Open Enrollment efforts. County government employees are encouraged to participate in the County’s Get-In subsidy program. The County also offers discounted Capital Bikeshare memberships and free Ride-On by showing their County badges.</td>
<td>- Executive regulations for Transportation Demand Management are moving forward.</td>
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<tr>
<td>• Promote use of more generous transit/vanpool subsidies available to private sector employers and employees through FareShare, and to County government employees through Get-In.</td>
<td>- Working to help County businesses to support the adoption of TDM strategies. Special efforts are dedicated to promoting telework, including providing free consulting from national experts.</td>
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<td>• Provide assistance to businesses to support continuing and formalizing telework programs.</td>
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<th>T-9: Traffic Management Systems</th>
<th>MCDOT:</th>
<th>MCDOT:</th>
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<td>• Continue installation of pedestrian HAWK signals.</td>
<td>- Advancing the installation of pedestrian hybrid beacons (PHB or HAWKs) to promote pedestrian safety when crossing multilane roadways or crossing point where reduced vehicle gaps and higher levels of pedestrian exposure to moving vehicle traffic exists. Also, developing a policy document that provides criteria on where and under what conditions PHBs should be considered.</td>
<td>- Continuing to work with SHA on traffic adaptive systems, focused on Route 108.</td>
</tr>
<tr>
<td>• Implement adaptive traffic signal control systems in select corridors</td>
<td>- Continue collaboration with MDOT SHA on adaptive signal control implementation on MD</td>
<td>- Continuing to install pedestrian hybrid beacons and full traffic signals at block crossings to facilitate safe pedestrian crossings. MCDOT is developing a policy document on where to install these devices.</td>
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<td>- Continuing collaboration with MDOT SHA on the adaptive Signal corridors. MDOT SHA still has not completed its review of MCDOT recommendations due to continued staffing shortages.</td>
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108. MDOT SHA has not completed its review of the recommendations because of staffing constraints. MCDOT is encouraging additional progress from the State on this action.

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<tr>
<th>T-10: Electric Vehicle Car Share Program for Low-Income Communities (Not in Climate Work Plan 2022)</th>
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<tr>
<td><strong>DEP:</strong></td>
<td>DEP will explore existing models from other parts of the country for potential replication locally.</td>
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<tr>
<th>T-11: Off-Road Vehicle and Equipment Electrification</th>
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<tr>
<td><strong>M-NCPPC – Parks:</strong></td>
<td>Continue to transition small equipment over to electric as end-of-life cycle and funding becomes available.</td>
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<td><strong>MCDOT:</strong></td>
<td>Undertake second phase of its electric mower pilot. The electric handheld equipment and trimmers that were piloted in FY22 worked well, and MCDOT is fully implementing them into the program. - Purchase 2 new electric mower models that are intended for industrial purposes. If the equipment works as intended, MCDOT will transition all mowing equipment into electric.</td>
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<td><strong>MCDOT:</strong></td>
<td>See T-1 above for updated information on the grant efforts. However, the No-Lo grant application does not include heavy-duty off-road equipment at this point. If the grant is successful, however, the hydrogen fueling facility may be able to be used for fueling heavy-duty off-road vehicles in the future. - A total of 79 electric leaf blowers and string trimmers have been distributed to Highway Services mowing and maintenance crews to replace prior gas-powered equipment. A total of 192 electrical components and accessories, including backpack battery units, batteries, belts, and chargers, were purchased to enable this transition.</td>
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<tr>
<td><strong>M-NCPPC – Department of Parks</strong></td>
<td>Department of Parks will continue conducting a pilot on commercial-grade electric (battery-operated) landscape equipment, including large-scale blowers to smaller blowers, string trimmers, chainsaws, etc.</td>
</tr>
<tr>
<td><strong>M-NCPPC – Department of Parks</strong></td>
<td>Coordinating with Park Managers to increase the charging capacity of maintenance facilities to support the transition to both electric vehicles and landscape equipment. Any major renovations or new maintenance yards will be built with the</td>
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and scheduled for completion in fall of 2022.

required charging capacity to support full electrification.
- Committed to transitioning over to fully electric 2-cycle and small gas-powered equipment. In FY22, new fully electric equipment was introduced, including 9 electric zero-turn mowers, electric paint sprayers, weed eaters, and leaf blowers. About $500,000 of funding was dedicated to purchasing electric equipment.
- Piloted fully electric park maintenance crews in both the Northern and Southern regions. The two crews were provided with a trailer and all-electric weed eaters, edgers, leaf blowers, and stand-up no-turn lawn mowers. The inside of the trailer is outfitted with outlets to charge equipment, which is connected to one external plug at the end of the day. The pilot has been very successful, and Parks will continue to transition crews to all-electric

- Working to transition all our trim crews over to fully electric equipment in trailers outfitted to charge the equipment.

**DEP:**
- The County Executive submitted gas-powered leaf blower legislation in FY22; County Council will take up this legislation in FY23.

**T-12: Advocate for a Vehicle Carbon Gas Tax or VMT Tax**

- Explore next steps for state-level advocacy on this issue.

**MCDOT:**
- Participated in discussion with County representatives to State Legislature. The delegation is aware of County’s interest in advancing this issue in the next legislative session.

**DEP:**
- The State Climate and Energy Policy Manager will begin researching this effort in coordination with MCDOT staff.
| T-13: Advocate for Rail Alternative Fuels (Not in Climate Work Plan 2023) | • Identify the critical issues related to this action. | **MCDOT:**
- This action is not yet started. However, the Purple Line will run on electricity. |


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<tr>
<th>Sequestration Actions</th>
<th>FY22 Plans</th>
<th>FY22 Accomplishments</th>
<th>FY23 Plans</th>
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| S-1: Retain and Increase Forests | • Continue planting and maintaining reforestation by all departments as required for compliance with laws.  
• Continue Reforest Montgomery and manage all Planning Department tree-related programs under one tree czar.  
• Expand the Reforest the Reserve effort focused on reforesting stream valley buffers and areas that need planting.  
• Evaluate tree spacing requirements for reforestation to improve establishment of newly planted forests. | DEP:  
- DEP received $1.5 million from the FY22 Omnibus Appropriations for tree planting, including reforestation. No details have been provided, but plans are underway, and sites are being identified.  
- DEP will continue to pursue opportunities for tree planting and reforestation through the 5-million tree initiative as the programs develop. DEP anticipates being a stakeholder on three separate levels, providing technical advice for applicants in Montgomery County, providing assistance with applications to residents, and as an applicant. | DEP:  
- DEP will continue to pursue opportunities for tree planting and reforestation through the 5-million tree initiative as the programs develop. DEP anticipates being a stakeholder on three separate levels, providing technical advice for applicants in Montgomery County, providing assistance with applications to residents, and as an applicant. DEP anticipates applying for funds from the State of Maryland (the 5 million Tree Initiative) for forest reforestation efforts.  
- DEP is actively collecting locations for reforestation and for individual tree plantings, including at the Oaks closed landfill site. |
|                       |            | OAG:  
- Work with farmers to plant trees in riparian areas and promote Montgomery Countryside Alliance’s Re-Leaf program. | OAG:  
- Promote tree plantings and find ways to keep forests. |
|                       |            | M-NCPPC Planning:  
- Introduced an amendment to strengthen the Forest Conservation Law in April 2022. The Montgomery County Planning Board approved the draft with minor changes, and it was transmitted to the County Council on May 11 for a July 2022 introduction. The bill would increase forest planting and forest conservation requirements for projects subject to the Montgomery County Forest Conservation Law. | M-NCPPC - Planning:  
- Reforest Montgomery is in its third full year and has increased planting efforts across the county. The program, managed by one Montgomery Planning staffer, now reforests anywhere from 5-10 acres per year and offers an average of 600+ free and discounted trees per year. The Reforest Montgomery program includes efforts to reforest County parkland and private properties protected by easements and offers free trees and a native |
**M-NCPPC – Parks:**

- Parks’ Horticulture, Forestry and Environmental Education Division staff map all dead and hazardous trees removed on parkland. Removals are converted to stumps in the mapping system, and stumps are ground in accessible areas to allow for canopy replacement. Horticulture Staff visits open planting sites via the mapped locations throughout the year to create tree replacement plans. Balled and burlapped trees receive 2 years of aftercare (water, mulch, pruning, IPM services) to ensure long-term survival in the landscape.

- Continues to require mitigation planting for disturbance of forest on parkland, not less than that required of the Forest Conservation Law and tree coupon to reduce the cost of native trees planted within the county. The program focuses these efforts on urban areas of the county or areas where there has been historical forest loss or to reduce runoff and improve stream water quality.

- September 2021 Site Plan approvals in the Ten Mile Creek Special Protection Area will result in more forest protection via park dedication and Category I easements: 1. Creekside at Cabin Branch includes 172 acres of forest retention (99% retained) and 82 acres of new forest planted, totaling 255 acres of protected forest (parkland and Cat. I easements). 2. Ashford Woods includes 51 acres of forest retention (87% retained) and 15 acres of new forest planted, totaling 66 acres of protected forest.

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<th>M-NCPPC – Parks:</th>
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<td>- Continue to map tree stumps for canopy replacement.</td>
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<td>- Continue to require mitigation planting under the new requirements of the Forest Conservation Law amendments.</td>
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<td>- Continue to coordinate with the Planning Department on plantings through the Parks Reforestation Program. Planned plantings for FY23 include: Watts Branch Stream Valley Park: approximately 250 trees across 5.2 acres; Rock Creek Stream Valley Park: 5 large caliper trees; Rosemary Hills Local Park: 2 large caliper trees; Lynnbrook Park: 5 large caliper trees; additional projects will be added throughout the year.</td>
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- Considerate of assessed land impact, incorporating planting as part of park development, renovation, and stormwater management projects.
  - Many of the trees, shrubs, and ornamental plants featured in Montgomery County’s park system are grown at the Pope Farm Nursery. The nursery works in cooperation with Montgomery Planning to implement Fee-In-Lieu, and other off-site mitigation required plantings on appropriate parklands through the Parks Reforestation program. In fiscal year 2022, the collaborative program successfully planted 335 native trees and 50 native shrubs across 8 different parks in the county. In total Pope Farm planted 1,500 trees and 1,125 shrubs on parkland this past fiscal year.
  - Developed and maintains reforestation planting standards in accordance with best management practices to achieve survivorship and establishment of Piedmont Forest typology.
  - The Weed Warrior Program empowers community members to help Montgomery Parks staff manage non-native, invasive plants (NNIs) on parkland and continues to be an essential contribution to protecting forests on parkland. In 2021, contributed 6,627 hours of volunteer work and freed 8,221 trees from NNI vines. Through the beginning of January to the end of May, the weed warrior contributed 4,126 hours of volunteer NNI management and is slated to surpass the volunteer hours of 2021.
  - September 2021 Site Plan approvals in the Ten Mile Creek Special Protection Area will result in

- Continue to develop and maintain reforestation planting standards in accordance with best management practices to achieve survivorship and establishment to Piedmont Forest typology.
- The Weed Warriors Program is continuing to train new members and planning workdays for the upcoming fiscal year.
- Urban Forest Patches Program: The Horticulture, Forestry, and Environmental Education Division and Park Planning and Stewardship Divisions have mapped out small urban forest patches in our local, urban, and neighborhood parks. They collected data on species diversity, invasive cover, and understory health of the patches. Most of these patches are not currently managed but serve a deep ecological purpose in areas of the county with low forested and tree canopy cover. Program is in the early stages, and first project is in Carroll Knolls Local Park, implementing NNI and understory plantings. The program will increase forest health and make the patches more resilient to climate change.
more forest protected via park dedication and Category I easements: 1. Creekside at Cabin Branch includes 172 acres of forest retention (99% retained) and 82 acres of new forest planted, totaling 255 acres of protected forest (parkland and Cat. I easements). 2. Ashford Woods includes 51 acres of forest retention (87% retained) and 15 acres of new forest planted, totaling 66 acres of protected forest.
- M-NCPPC acquired 472.78-acres of property. This land acquisition will create the new Broad Run Conservation Park. Public ownership of this property would ensure long-term preservation and conservation of land that includes: 325 acres of forest, significant areas of contiguous forest and interior forest habitat, and 1.5 miles of Broad Run mainstream and headwater tributaries.

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<th>S-2: Retain and Increase Tree Canopy</th>
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| • Evaluate tree spacing requirements for street trees to enhance opportunities to shade impervious surfaces.  
• Plant more shade trees by increasing staffing in the Tree Montgomery Program to target neighborhoods where tree canopy is lacking in underserved areas.  
• Administer grant from Casey Trees for tree planting in the public right-of-way.  
• Administer grant to Conservation Montgomery to continue the Home Tree Care | - Tree Montgomery completed a successful planting season by installing more than 1700 trees on more than 380 separate properties. Tree Montgomery began planning for the FY23 season in February and continues to meet with property owners to identify planting locations and species.  
- DEP is preparing to fulfill grant opportunities. The FY22 Omnibus Appropriations have been awarded to DEP, but no details have been provided yet. Additionally, the Chesapeake Bay Trust grant, as part of the 5-million tree initiative by Maryland, for 250 trees in urban frontline communities has been awarded to DEP. DEP was awarded a grant through the DNR Trust Fund for a reforestation project at the Wheaton Branch | - DEP will recruit for a nature-based climate solutions position in FY23 to assist with ongoing work towards meeting related CAP actions.  
- DEP will increase planting under the Tree Montgomery Program in FY23. Due to new hire of a tree planting staff in FY22, DEP expects additional plantings to be made in FY23.  
- Several grant opportunities have been confirmed, and plans are underway. DEP has received $1.5 million through the FY22 Omnibus Appropriations, with half of this targeted for tree planting and the other half for green infrastructure. DEP was awarded a grant through the DNR Trust Fund for a reforestation project at the Wheaton Branch property. DEP will be receiving a $169,000 grant |
101 classes and resources in multiple languages (already offered in English and Spanish).
- Conduct research on micro-forests and edible forests and assess the flow of waste and wood in the County.

DEP reviewed amendments to the Forest Conservation Law proposed by Montgomery Planning Department.

- DEP reviewed amendments to the Forest Conservation Law proposed by Montgomery Planning Department.
- MCDOT: planted 1,672 trees in the right-of-way in FY22.
- The County Executive transmitted the proposed Operating Budget to Council with a recommendation to increase funding for stump removal and tree planting. Council agreed to fund substantial increases for this program. Stump removal is necessary to create space for tree canopy replacement in established urban areas.

MCDOT:
- MCDOT submitted a grant application to Chesapeake Bay Foundation and Casey Trees for $800k; should any or all of these funds be awarded, they will enhance the Department’s tree planting efforts.

DEP reviewed amendments to the Forest Conservation Law proposed by Montgomery Planning Department.

- DEP reviewed amendments to the Forest Conservation Law proposed by Montgomery Planning Department.
- The Planning Department put forth amendments to enhance the Forest Conservation Law; the amendments are with Council, and Council is expected to take action in FY23. The amendments will help with forest and tree conservation during development projects that are subject to the Forest Conservation Law.
- DEP will review the potential for new legislation to protect additional trees any time there is redevelopment, perhaps using the model of the Roadside Tree Law.
- DEP will continue to implement riparian plantings above regulated requirements in stream restoration projects.
**M-NCPPC – Parks:**
- Increasing focus and prioritization on parks located in Equity Focus Areas to ensure that they are being/have been visited on a regular basis for assessment of tree planting/canopy coverage needs. Montgomery Parks staff are preparing a Forest Conservation Plan to protect existing tree canopy in Wheaton Regional Park through the Wheaton Regional Park Master Plan.
- In September 2021, we hosted an Urban Tree Summit Field Day that was open to the public with a focus on urban wood waste and utilization through a partnership with Baltimore and DC’s Wood waste facilities called Urban Wood Utilization: Let’s talk shop!

**M-NCPPC – Planning:**
- Discussions are underway with MCDOT, DPS and M-NCPPC about re-evaluating the spacing requirements for street trees. The grant that was received through the Chesapeake Bay Trust has been planned and is being implemented, with nearly 100 trees planted in Q2 and an additional 150 planned for planting through fall 2022.

**S-3: Restore and Enhance Meadows and Wetlands (Not in Climate Work Plan 2022)**

**M-NCPPC – Parks:**
- Final plantings were installed for Ken-Gar Palisades Local Park wetland creation and enhancement project. Work began September 2019 on execution of a Wetland Mitigation Project at the Ken Gar Palisades park to mitigate

**M-NCPPC – Parks:**
- On-Going meadow restoration projects:
  - Rachel Carson Conservation Park: Project was started in 2021 and will be approximately 20 acres. Currently working on a 12-acre section adjacent to completed 8-acre section.
### Agricultural Conservation

- Continue working with farmers to encourage regenerative farming practices.
- Maintains agricultural leases on parkland for requirements for nutrient management, soil conservation, and use of cover crops.

### M-NCPPC - Planning:
- Advanced amendments to Forest Conservation law have been transmitted to County Council. The Planning Department incorporated recommendations of a stakeholder committee. The recommendations include measures to protect and enhance forested areas throughout the county.
- DEP’s Inspection and Maintenance team will conduct inventory of potential restoration opportunities at stormwater maintenance facilities to ensure compliance with regulations.

### Locust Grove Nature Center:
- Project will create a small half-acre demonstration plot for environmental education and pollinator habitat.

### Meadowside Nature Center:
- Project includes a 1.5-acre restoration for environmental education and pollinator habitat.

### On-going wetland restoration projects:
- Little Bennett Regional Park: Restoration project is complete. The wetland will enhance habitat for native plant species.
- Rock Creek Regional Park: Project is ongoing and will be approximately 5 acres. The project includes invasive species control. Over 500 native plants will be supplied by Pope Farm and reintroduced by volunteers in the Weed Warrior program.
- Black Hill Regional Park: Ongoing project is a 6-acre restoration along Cabin Branch stream valley, which will likely expand after the current acreage is protected.
- Rock Creek Regional Park: Project is ongoing and will be approximately 5 acres. The project includes invasive species control. Over 500 native plants will be supplied by Pope Farm and reintroduced by volunteers in the Weed Warrior program.

### DEP:
- DEP’s Inspection and Maintenance team will conduct inventory of potential restoration opportunities at stormwater maintenance facilities to ensure compliance with regulations.

### M-NCPPC - Planning:
- Advanced amendments to Forest Conservation law have been transmitted to County Council. The Planning Department incorporated recommendations of a stakeholder committee. The recommendations include measures to protect and enhance forested areas throughout the county.
- Host educational events about the benefits of regenerative agriculture.

**M-NCPPC – Parks:**
- Agricultural leases have nutrient management, soil conservation, and use of cover crops.

**OAG:**
- Work with farmers to utilize food scrap composting. Partnered with the Compost Crew to open 2 compost outposts on 2 farms. The first at One Acre Farm and the second at Butlers Orchard. Partner with Brenda Platt of ILSR to submit an EPA application for funds to set up a composting training site at the AHFP. We heard verbally the application was selected for funding. The Soil Conservation District continues to sign farmers up for the MDA cover crop program and utilize its own separate cover crop program. We work with the UME nutrient management specialist to promote nutrient management practices. The OAG has worked with DEP, MES, and SCA to amend the agreement the County has with SCA to allow 20-yd deliveries of leaf grow from the Dickerson Composting facility. By allowing smaller deliveries, more farmers can access this product and work to improve soil health.

**S-5: Restore Soil Fertility, Microbial Activity, and Moisture Holding Capacity**

- Expand commercial food composting pilot and launch residential food composting pilot.

**DEP:**
- DEP continued planting and establishing forests and trees through several programs and grant-funded projects.

**DEP:**
- Continue planting and establishing forests and trees through several programs and grant-funded projects.
- Host educational workshops and outreach emphasizing soil health.
- Continue the healthy lawns program.

- The Department of Environmental Protection RainScapes program installed over 150 projects on private properties, including conservation landscape and rain garden projects.
- Continued commercial food scraps recycling partnership program, solicited partners that generate food scraps; provided technical assistance and best practice recommendations; helped to set up on-site food scraps separation and storage/recycling containers; provided collection/transportation to a compost facility; provided for processing fees; etc.
- Continued work with businesses, non-profit organizations as well as local, state and Federal government facilities, provided technical assistance and support to establish food scraps recycling programs.
- Launched single-family residential curbside recycling collection of food scraps pilot. Selected a contractor to collect food scraps from participating households; determined areas of eligible households; solicited participation of eligible households; developed and produced educational materials; secured recycling carts, kitchen counter caddies, and compostable liners for up to 1,700 participating households; and more.
- Continued providing outreach and education on the benefits of grasscycling and composting.
- Developed educational materials and training sessions on using rodent-proof compost bins to include food scraps in backyard composting efforts.
- Purchased and delivered two types of rodent-proof compost bins.
proof compost bins for testing and evaluation by volunteer residents: one static compost bin model and one dual-chamber tumbler compost bin model.  
- Recruited almost 1,000 volunteer residents to participate in the above study through outreach efforts via electronic newsletter articles; website info; email blasts to listservs; presentations to garden clubs and Master Gardeners; information shared with multiple partner organizations; etc.  
- Conducted educational workshops and training for backyard composting of yard trim, as well as initial trainings on backyard composting of food scraps using rodent-proof compost bins.  
- Provided compost bins to residents directly or via 22 partner distribution locations to encourage managing yard trim and food scraps at the source and create compost for use to improve soil health.

OAG:  
- Educate farmers and landowners on using no-till practices, following nutrient management plans, and covering crops. These three practices are the best way to restore soil health. OAG also advocates for farmers to utilize compost whenever feasible.

| OAG: | - Continue testing and evaluation of two rodent-proof compost bins by an expanded group of volunteer residents: one static compost bin model and one dual-chamber tumbler compost bin model.  
- Continue to conduct educational workshops and training for backyard composting of yard trim and backyard composting of food scraps using rodent-proof compost bins.  
- Continue to provide compost bins to residents directly or via 22 partner distribution locations to encourage managing yard trim and food scraps at the source and create compost for use to improve soil health.  
OAG: | - Continue to promote these practices and show the good work farmers do to reduce GHG and reduce pollution to the Chesapeake Bay.  
- OAG posts the GHG reduction of agricultural BMP installation; the COMET tool calculates the reduction in GHG for a BMP installed to NRCS standards. OAG posts GHG reduction and N, P, and sediment reductions on its website.  
- When the new BDS is hired, OAG can expand its efforts in promoting soil health and the use of compost. |
| S-6: Whole-System Carbon Management and Planning | • Conduct research on available tools. | DEP:  
- DEP successfully secured technical support from the Urban Sustainability Directors Network's Natural Climate Solutions Initiative to identify co-benefits associated with different interventions and conduct a high-level analysis to inform a carbon management and measurement tool.  

**M-NCPPC – Parks:**  
- Held its first-ever urban wood sale on November 13 and 14, 2021, making wood slabs and lumber sawn from our portable sawmill available to the public for purchase. Approximately 8,500 board feet of wood slabs were purchased during the event, which generated $24,000 in revenue. This revenue will be utilized to support future park projects. Montgomery Parks’ urban wood reuse program turns hazardous trees removed from parkland into lumber and other reused wood products in park operations. Based on the success of this wood sale, we look to incorporate public wood sales as a regular event in the program.  

**DEP:**  
- DEP, in collaboration with the Urban Sustainability Directors Network’s Nature Based Climate Solutions initiative and a workgroup with Planning Department and Department of Parks, will use the Nature-based climate solutions initiative framework to identify co-benefits associated with different interventions. DEP is convening a cross-departmental workshop in early FY23. Using the County’s data, DEP and partners will identify ways to tap into the Trust for Public Land’s carbon management tool.  
- DEP will continue to implement the lawn care program in FY23.  
- DEP will continue to plant and establish forests and trees through several established programs and grant-funded projects.  
- DEP promotes conservation landscapes through the Rainscapes program.  

**M-NCPPC – Parks:**  
- Second annual Parks urban wood sale is set to take place in October of 2023.  
- Continue to be an active member of natural climate solution working group led by the county. |
<table>
<thead>
<tr>
<th>Adaptation Actions</th>
<th>FY22 Plans</th>
<th>FY22 Accomplishments</th>
<th>FY23 Plans</th>
</tr>
</thead>
</table>
| A-1: Water Infrastructure Resilience      | • Develop WSSC service-area-wide future conditions flood zone and use this to screen all WSSC horizontal assets for the 100-year storm event projected for 2065.  
• Finalize WSSC Climate Change design guidelines by citing Design Flood Elevations for critical sites.  
• Complete WSSC Calendar Year 2021 GHG inventory and update the WSSC GHG Action Plan. | WSSC:  
- The WSSC climate change guidelines are being incorporated into Engineering and Construction design guidelines. | WSSC:  
- Continue with updates to the GHG plan. |
| A-2: Repair and Enhancement of Stormwater Conveyance Systems | • Implement CIP work program for repairs.  
• Conduct flood plain study before resizing culverts. | DEP  
- The Department of Environmental Protection, Department of Transportation, and Department of General Services is working with Naval Support Activity Bethesda (NSAB) to prepare a Military Installation Resiliency Review (MIRR) planning study. The MIRR will identify off-base climate vulnerabilities impacting NSAB’s onsite water, transportation, and energy operations and propose mitigation actions. The study is funded through a Department of Defense Office of Local Defense Community Cooperation grant.  
- The Department of Environment continued developing the final design for the Wheaton Dam Flood Mitigation project and secured funding from the Maryland Department of Natural Resources. | DEP  
- The Department of Environmental Protection will complete the design and permitting for the Wheaton Dam Flood Mitigation project by January 2023, and construction is expected to be completed in late 2024.  
- The Department of Environmental Protection will be applying to the United States Army Corps of Engineers for Planning Assistance to the State of Maryland to study the causes of flooding and potential solution to these flooding problems in several watersheds. |
Resource ($110,000) to expand and enhance forested buffers and existing tree canopy on 7.7 acres around the Wheaton Regional Stormwater Management Facility and Wheaton Branch, a tributary to Sligo Creek and the Anacostia River.

**MCDOT:**
- Started construction for the Hidden Valley Culvert.
- Completed construction of Clarksburg Road.
- Started design of Crabbs Branch Culvert, Peach Leaf Court Culvert, and Crystal Rock Drive Culvert, and completed design of the Pooks Hill Road Culvert Rehabilitation.
- Completed construction of Blunt Road South Culvert and the Turkey Branch Parkway Culvert Replacement.
- Conducted maintenance of storm culverts and ditches countywide. Completed a Flood Plain Study for the Clarksburg Road Culvert and initiated Flood Plain Studies for the Wightman Road Culvert and for the Tucker Lane Culvert.
- Progress on other actions includes:
  - Pursued funding and started design for the Amaranth Drive Culvert.
  - Started construction on the Armat Drive culvert.
  - Participated in regular Flooding Task Force meetings.
  - Supported DEP on defining the scope for a task to develop a strategy to address flooding county-wide.
  - Completed a flood study of the 9/1/22 storm for the Twinbrook/Rockcrest Watershed.

**MCDOT:**
- The CIP budget for stormwater conveyance drains, outfall repairs, and culvert replacement will nearly double in FY23, approximately $8.8 million more in the FY23-28 CIP for additional permit-related projects. Expanding capacity to undertake stormwater conveyance repairs and culvert replacement. The additional funds will be matched to MCDOT’s capacity to advance these projects.
### M-NCPPC – Parks:
- Ongoing coordination with MCDOT has resulted in a program to address failing storm drain outfalls and associated downstream channels on parkland. The collaboration continues to implement projects that not only address the aging infrastructure, but also protect eroding banks and promote velocity dissipation and infiltration before the drainage channel reaches a perennial stream.
- Has 362 acres of conveyance pending for the Creekside at Cabin Branch and Ashford Woods development plans. The Department has continued to provide guidance and approval of a required Conservation Management Plan for long-term preservation and care of natural landscape remaining for any development within the plan area. This also includes review and approval of a Stream and Wetland Restoration Plan to remediate for past land use that has degraded these resources and the stormwater management plan to ensure regenerative groundwater techniques are being applied.

### M-NCPPC – Parks:
- MCDOT was able to secure additional funding for design and construction for their storm drain program. Parks is currently coordinating 3 projects that are set to begin construction in FY23.

### A-3: Temperature Monitoring and Alerts
- Apply for NOAA urban heat mapping grant.
- Conduct a campaign to spread the word about Alert Montgomery and how to sign up.
- Explore options to expand Alert Montgomery messaging.

### OEMHS:
- Spring/summer update of the Extreme temperature plan is almost finalized. The group contact list has been updated, Alert Montgomery/Social Media messaging and procedures have been updated, and training provided to Alert Montgomery staff.
- DEP, OEMHS, and HHS met to discuss

### OEMHS:
- Extreme temperature plan is updated by OEMHS twice per year.
- Working with the state of Maryland (MDEM) on a state-level weather data system that the state will own.
<table>
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<tr>
<th>Section</th>
<th>Focus Area</th>
<th>Activity</th>
<th>Additional Information</th>
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<tbody>
<tr>
<td>A-4: Extreme Weather Energy Efficiency Building Code (Not in Climate Work Plan 2023)</td>
<td>• Explore options for adopting resiliency-ready language into the building codes.</td>
<td>DPS:</td>
<td>- The 2021 building code cycle is underway; in FY22, DPS has been reviewing the 2021 building codes, including the International Energy Conservation Code, in preparation for adoption in FY23.</td>
</tr>
<tr>
<td>A-5: Climate-Adapted Housing Incentives/Subsidies (Not in Climate Work Plan 2022)</td>
<td></td>
<td>DEP:</td>
<td>- DEP received funds in the FY23 operating budget to offer climate resilience funding for low- and moderate-income housing.</td>
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</table>

**OEMHS & DEP:**
- NOAA Urban Heat Campaign will be conducted in FY23. The Campaign is currently scheduled for early August. Coordination between NOAA, OEMHS, and DEP is underway. The County will partner with the American Geophysical Union to solicit assistance from a scientist through the Thriving Earth Exchange program to analyze the data gathered by County heat mapping campaign volunteers. Among other outcomes, the results will be used to identify communities to target shade tree plantings on private property and along streets.

- DEP: In FY23, DEP will launch a pilot program that will provide climate resilience funding for low- and moderate-income housing, to fill funding gaps in existing programs that these households may benefit from. Funds will have a broad scope of possible uses to help people stay in their homes and insulate these existing homes from climate vulnerabilities.
<table>
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<tr>
<th>A-6: Green/Cool/PV Roof and Pavement Code (Not in Climate Work Plan 2023)</th>
<th>- Continue to improve the energy and green building codes through adoption and amendments. The International Green Construction Code would cover commercial buildings; there is already a requirement for certain aspects of green roofs for commercial projects, and both the energy code and green code have elements for reflectivity/cool roofs (white roof or concrete in place of blacktop).</th>
<th>DPS: - International Green Construction Code is a “holistic building code” for new construction. The code applies to all new buildings of more than 5,000 square feet. The new standards address materials, indoor air quality, energy use, and more. One aspect of the code is the zero energy performance index or zEPI. That index shows how well different types of buildings are meeting energy efficiency and performance goals — the lower the score, the better the building is. Goal of a zEPI of zero (producing as much electricity as they use).</th>
</tr>
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<tr>
<td>A-7: Green Public Spaces</td>
<td>• Implement Green Streets projects.</td>
<td>DEP: - See A-10.</td>
</tr>
<tr>
<td>A-8: Harden Emergency Shelters and Install Resilience Hubs</td>
<td>• Complete the Scotland Community Center resilience hub and solar installation.</td>
<td>DGS: - Scotland Resilience Hub is scheduled for completion in October 2022. - Look to prioritize other neighborhood recreation centers to turn into resilience hubs.</td>
</tr>
</tbody>
</table>

- DEP, through Tree Montgomery and several grant awards, will target frontline communities for shade tree plantings to increase the benefits of shading-built surfaces and AC units.

**MCGB:**
- Work with the County and property owners to understand the needs of affordable rental property owners to meet climate-adapting improvements and determine initial strategies for responding.
| A-9: Mold Protection and Remediation  
(Not in Climate Work Plan 2022 and 2023) | OEMHS:  
- Drafting the position description to begin recruitment for the Climate Adaptation Program Manager in FY23. This position will work with HHS and DGS on resiliency hubs.  
- Recruit a Climate Adaptation program manager to support this effort. |
| --- | --- |
| A-10: Green Infrastructure  
| • Expand the funding and staffing for RainScapes program, Tree Montgomery, and Watershed Restoration and Grant programs.  
• Explore options for incorporating green infrastructure into building codes.  
• Implement CIP work program for planning and implementation of water quality best management and stormwater management projects.  
• Pursue Congressional earmarks to support additional work in this area. | DEP:  
- DEP received $1.5 million from the FY22 Omnibus Appropriations for tree planting and green infrastructure. No details have been provided, but plans are underway, and sites are being identified.  
- DEP completed construction of Glenmont Forest Green Streets, with 53 rain gardens, bio-retention gardens, and tree boxes installed.  
DEP:  
- DEP is in the process of reviewing Pay for Performance proposals and Invitations for Bids for projects that will include green infrastructure elements.  
- DEP's congregations for clean water initiative will lead to green infrastructure planning work in FY23.  
- DEP, through Tree Montgomery and several grant awards, will target frontlines communities for shade tree plantings to increase the benefits of shading-built surfaces and AC units.  
- DEP will release its 9th RFP for Watershed Implementation grants in partnership with the Chesapeake Bay Trust. This year's RFP will include an expanded request for green infrastructure implementation projects to use the awarded EPA Community Grants, which are part of the $1.5 million FY22 Omnibus Appropriations.  
- DEP will continue training for stormwater BMP inspection and maintenance contractors, including ESD BMPs, and will begin a new program in partnership with the Alliance for the Chesapeake Bay to pilot inspection and maintenance incentives for ESD practices on private property in the |
<table>
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<tr>
<th><strong>M-NCPPC – Parks:</strong></th>
<th><strong>Anacostia watershed, including a Green Ambassadors Program for maintenance assistance.</strong></th>
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<tr>
<td>- Completed 2 of the 4 original stream restorations identified for the County's MS4 permit.</td>
<td><strong>M-NCPPC – Parks:</strong></td>
</tr>
<tr>
<td>- Continue projects to reach the 20% restoration requirement of its untreated impervious area for its Phase II MS4 permit.</td>
<td>- Continue projects to reach the 20% restoration requirement of its untreated impervious area for its Phase II MS4 permit.</td>
</tr>
<tr>
<td>- DEP and Parks have signed an MOU to expand this work to include an additional 4 stream restoration and outfall projects.</td>
<td>- DEP and Parks have signed an MOU to expand this work to include an additional 4 stream restoration and outfall projects.</td>
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<tr>
<th><strong>A-11: Climate Adapted Development Standards</strong></th>
<th><strong>DEP:</strong></th>
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<tr>
<td>- Explore options through the building codes and investigate examples being implemented by other municipalities.</td>
<td>- DEP and DPS have an effort underway to review the costs associated with water quality treatment waivers.</td>
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<tr>
<th><strong>A-12: Stormwater Retention Credit Trading (Not in Climate Work Plan 2022 and 2023)</strong></th>
<th><strong>DPS:</strong></th>
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<tr>
<td><strong>DEP:</strong></td>
<td>- The County’s stormwater management waiver process is already one of the most stringent in the area. DPS and DEP will collaborate in reviewing the existing fee structure for stormwater management waivers and will propose updates to the stormwater management waiver fees.</td>
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<tr>
<th><strong>A-13: Ban Stormwater Management Requirement Waivers</strong></th>
<th><strong>DPS:</strong></th>
</tr>
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<tbody>
<tr>
<td>- Continue to push for full compliance with requirements.</td>
<td>- The County’s stormwater management waiver process is already one of the most stringent in the area. DPS and DEP will collaborate in reviewing the existing fee structure for stormwater management waivers and will propose updates to the stormwater management waiver fees.</td>
</tr>
<tr>
<td>- Examine what other jurisdictions in the region are doing on this issue.</td>
<td>- The County’s stormwater management waiver process is already one of the most stringent in the area. DPS and DEP will collaborate in reviewing the existing fee structure for stormwater management waivers and will propose updates to the stormwater management waiver fees.</td>
</tr>
</tbody>
</table>
| A-14: Update Floodplain Maps | • Complete update of FEMA floodplain maps by summer of 2023.  
• Conduct outreach during flood awareness month (April). | DPS:  
- Anticipates receiving the preliminary flood maps for Montgomery County from FEMA, which will update the flood insurance program. Upon receipt of the flood maps, FEMA will undertake a six-month public comment period.  
- Participate in the Maryland Department of the Environment stakeholder consultation group to revise State stormwater management regulations.  
OEMHS:  
- New OEMHS hydrologist will start and will provide subject matter expertise on hydrologic processes. |
| A-15: Water Supply Protection | • Continue to work on special protection area requirements that protect the aquifer in the Clarksburg area.  
• Work on ensuring adequate implementation of the Ten Mile Creek Special Protection Area Master plan.  
• Implement water quality best management practices and stormwater management facilities in areas where there are no stormwater controls or inadequate stormwater controls. Identify sites for needed water quality treatment and stormwater management facilities for water supply protection. | M-NCPCC – Planning:  
- Working on ensuring adequate implementation of the 10 Mile Creek Special Protection Area. The Montgomery County Planning Board approved an update of the Environmental Guidelines for Environmental Management of Development in Montgomery County to include a new chapter that covers environmental requirements for development in the Ten Mile Creek watershed, including requirements specific to implementing the 10 Mile Creek Special Protection Area. Montgomery Planning is continuing to apply these Guidelines and requirements to all development reviews in the Ten Mile Creek watershed.  
- Approved the Creekside at Cabin Branch and Ashford Woods Preliminary and Site Plan applications. Planning staff coordinated with WSSC staff that monitor Little Seneca Lake as part of their reviews. These applications required a  
M-NCPCC – Planning:  
-Continuing to apply updated guidelines to the Ten Mile Creek watershed. Planning staff is a member of the Patuxent Reservoir’s Watershed Technical Advisory Committee. There are ongoing long-term projects. One project is to develop a watershed-wide geodata base of the Patuxent watershed to enable the committee to map and analyze watershed.  
- WSSC Water will be hosting the geodatabase to advise the policy workgroup with inter-agency representatives. The committee is also working on a stream buffer restoration potential analysis to assess the potential for reforesting stream buffers in the reservoir watershed as a BMP to help the reservoir move closer to meeting its TMDLs for phosphorus and sediment. |
- Implement stormwater management inspection and maintenance program.
- Conduct water quality improvement activities, projects, and stream restoration and protection activities to incrementally improve water quality in streams located in the county's urban areas.
- Conduct winter salt management activities and expand pet waste campaigns.
- See related actions in S-1 and S-5.

<table>
<thead>
<tr>
<th><strong>Stream and Wetland Restoration Plan as recommended by the Master Plan. Portions of the streams on these sites that were adversely affected by previous land uses will be restored.</strong></th>
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<tbody>
<tr>
<td><strong>M-NCPPC – Parks:</strong></td>
</tr>
<tr>
<td>- Parks stormwater management staff ensure non-structural maintenance is completed on 837 SW BMPs in inventory.</td>
</tr>
<tr>
<td>- Parks stormwater teams have taken the approach of &quot;helping native plants compete better&quot; by removing undesirable vegetation from planted stormwater facilities and immediately planting desirable natives in dense configurations. This has proven effective in reducing staff time and effort spent on weeding while improving the aesthetic quality of individual sites. Numerous plantings were completed this fall with the expectation that manual weeding will be reduced this spring.</td>
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<tr>
<td>- M–NCPPC – Montgomery Parks, completed Stoneybrook Tributary to Rock Creek stream restoration.</td>
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<tr>
<td>- Parks' FY22 Outfall Restoration Program wrapped up with 10 restorations successfully completed.</td>
</tr>
<tr>
<td>- Conducts an annual Pollution Prevention Training, which reviews potential pollution sources and discusses best management practices for protecting water sources and preventing pollution at maintenance yards and stormwater facilities. A total of 293 staff were trained in the winter of 2022.</td>
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<thead>
<tr>
<th><strong>M-NCPPC – Parks:</strong></th>
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<tbody>
<tr>
<td>- Parks stormwater management staff will continue to ensure non-structural maintenance is completed on 837 SW BMPs in inventory.</td>
</tr>
<tr>
<td>- Continue to include NNI management in the scope of stormwater projects.</td>
</tr>
<tr>
<td>- Design and permitting are progressing for Clearspring and Glenallan stream restorations, and Pope Farm tributary is on the list of upcoming stream restoration projects. The MDE SRF Loan will fund the Clearsprings Manor Stream restoration.</td>
</tr>
<tr>
<td>- Wildwood outfall stabilization is in the design phase, and the Byeford road outfall restoration is set to be complete at the beginning of FY23. Planned outfall restorations include Flower Avenue Urban Park, Wheaton Regional Park near Parker Avenue, and Yates.</td>
</tr>
<tr>
<td>- Annual Pollution Prevention Training will continue in FY23.</td>
</tr>
<tr>
<td>- Parks' stormwater retrofits of untreated impervious areas are planned at Maplewood-Alta Vista Local Park, Nolte Local Park, Dale Drive Local Park, and Colesville Local Park.</td>
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<th><strong>DEP:</strong></th>
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<tr>
<td>- As part of the new MS4 Permit, the County (DEP, DOT, DGS, and MCPS) will start working on its salt management plan (SMP), which must be completed by FY25. The SMP shall be based on the guidance</td>
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</table>
provided on best road salt management practices described in the Maryland Department of Transportation, State Highway Administration’s Maryland Statewide Salt Management Plan, developed and updated annually as required by the Maryland Code, Transportation §8-602.1. The County’s SMP shall include, but not be limited to: a plan for evaluation of new equipment and methods, and other strategies for continual program improvement, training, and outreach for County personnel and contractors, developing and distributing best salt management practices outreach for educating residents within the County, and tracking and reporting.
- DEP will perform preventative Maintenance inspections on approximately 4,000 SWM BMPs under County jurisdiction and will assure that any identified maintenance needs are addressed.
- Pesticide law, state fertilizer law education.
- DEP submitted legislation in FY22 for onsite septic treatment, Bill 40-21 - Individual Water Supply and Sewage Disposal Systems; it is under Council review.
- Refer to the other CAP actions that mention stream restoration and reforestation projects.

| A-16 Flood Rescue Resources | • Implement a grant project for piloting roadway water sensors. | **OEMHS:**
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<td></td>
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<td>- The recently installed sensors at dam locations throughout the County through a grant from the US Department of Homeland Security are operational. See G-16 for more details.</td>
</tr>
</tbody>
</table>
|                             |                                                                   | **DEP:**
|                             |                                                                   | - See G-16. |
| A-17: On-Site Water Reuse  
(Not in Climate Work Plan 2023) | • Work with WSSC to establish jurisdictional overlap to enforce water efficiency and auxiliary water measures in the 2021 International Green Construction Code. |  |
|-------------------------------|-------------------------------------------------------------------------------------------------|---|
| A-18: Expanded Community Gardens | • M-NCPPC – Department of Parks is examining different typologies and models to suit different communities and increase the amount of gardens in parkland. | OAG:  
- While not a true community garden, the OAG worked with DEP and DGS to locate a county-owned property that would be used for increased production of table food. Several properties were selected if the interested grower works with DGS on the dispensation process.  
M-NCPPC – Parks:  
- As a result of a site suitability study by M-NCPPC – Montgomery Parks, a new community garden is in design for Edgewood Neighborhood Park. While subject to change, the recommended garden will provide approximately 25-30 plots within about 4,000 square feet of an enclosed area.  
- Opened Nolte Community Garden, the first garden of this typology in the County. The garden provides 19 accessible gardening beds sitting atop the foundation of a demolished Park Activity Building. This garden addresses equity goals by engaging seniors and food insecure families in this part of Silver Spring. In addition, this garden has increased biological diversity with the installation of fruit and vegetable plants, annuals, native plants, wildflowers, etc. This brings the OAG:  
- Continue to find ways to produce more local food, work with MFCF and Manna, and work with DEP and DGS to link growers to county-owned land.  
M-NCPPC – Parks:  
- Edgewood Community Garden will open in the Spring of 2023; it will help provide healthy, accessible food to this part of the County.  
- The Black Hill Community Garden (slated to open in 2023) will be adjacent to the Black Hill SEED classroom, allowing for increased learning opportunities and engagement with the public.  
- A community garden is under review in Stonehedge Local Park as a mini-refresher through the Level-of-Effort program. |
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<tr>
<th>A-19: Advocacy for Off-River Water Storage (Not in Climate Work Plan 2022)</th>
<th>DEP:</th>
<th>DEP:</th>
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<tbody>
<tr>
<td>- The County Executive signed a letter to congress supporting the federal Water Resources Development Act funding a US Army Corps of Engineers study to evaluate options for alternative water supplies for the DC region.</td>
<td>- DEP will continue to support the effort to get federal funding to complete the necessary studies of alternative water supply options.</td>
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<tr>
<th>A-20: Study Potential for Buildings in the County to Flood and Possible Remedies</th>
<th>DEP:</th>
</tr>
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<tbody>
<tr>
<td>- Enhance the County's hazard mitigation plan to include climate change.</td>
<td>- DEP is participating in the State's Advancing Stormwater Resiliency in Maryland (A-StoRM) initiative, which will potentially result in updated regulations for stormwater management. - The initiative began in FY22 to develop a comprehensive Flood Management Plan for the County will continue. This is a multi-year, multi-stage process involving a range of County departments and agencies that will ultimately lead to specific watershed studies intended to identify the causes of and potential solutions to flooding in the County. The effort will also result in recommendations related to the structure and resources of the County government focused on flooding preparation, response, and recovery.</td>
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<tr>
<th>HHS:</th>
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<tbody>
<tr>
<td>- The Office of Community Affairs is interested in helping the community gardens effort by providing community outreach support and connecting with faith-based organizations that may have land available for farming.</td>
</tr>
</tbody>
</table>
| OEMHS: | - A consultant has been selected for the Hazard Mitigation Plan, and work will begin in Q1 of FY 23.  
- Participating in the flood strategic planning process.  
- OEMHS hydrologist is going through the OHR process and should begin in FY23. | OEMHS: | - Participating in the flood management study. |
|---|---|---|---|
| MCDOT: | - Assist DEP and DPS in participating with the MDE A-STORM stakeholder consultation process.  
- Participate in the Jacobs study on flooding. |
<table>
<thead>
<tr>
<th>Governance Actions</th>
<th>FY22 Plans</th>
<th>FY22 Accomplishments</th>
<th>FY23 Plans</th>
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<tbody>
<tr>
<td>G-1: Build awareness among all Montgomery County Government staff about climate change</td>
<td>• Leverage departments' Climate Ambassadors to build awareness.</td>
<td>DEP: - G-1, G-2, G-5, and G-6 have been consolidated (see G-2).</td>
<td>DEP: - G-1, G-2, G-5, and G-6 have been consolidated (see G-2).</td>
</tr>
<tr>
<td></td>
<td>• Conduct staff educational sessions about climate change.</td>
<td>M-NCPPC – Parks: - 15 staff from Parks participated in the 3-part</td>
<td>M-NCPPC – Parks: - Currently in the process of creating a 5-Year Sustainability Plan for M-NCPPC, which will include a 6-month internal stakeholder engagement process. The plan will evaluate the way the agency conducts business through a climate lens, incorporating goals and actions set forth by the CAP. The internal engagement process is intended to identify the intersection of climate change within different divisions of the agency and create internal buy-in by building solutions from the ground up. The Sustainability Plan will be completed in January of 2023.</td>
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<td></td>
<td>• Develop and define a comprehensive communication and education strategy.</td>
<td>Climate Ambassador program hosted by Montgomery County and ACCO.</td>
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<tr>
<td></td>
<td>• Develop and launch a few simple short educational videos/messages.</td>
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<td></td>
<td>• Incorporate a training/workshop within one of the quarterly Aspiring Leader sessions.</td>
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<td></td>
<td>• Inform new MCG employees of the County’s climate initiatives at new employee orientation sessions</td>
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<tr>
<td>OHR:</td>
<td>- With DEP and the Office of Innovation, the Office of Human Resources Training and Organizational Division sponsored 5 programs in FY22 and developed a comprehensive Climate Change Ambassador Training curriculum to build understanding and engagement in county government staff about climate change. See G-2 for more info.</td>
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<tr>
<td>HHS: Behavioral Health and Crisis Service (BHCS)</td>
<td>- Developed and conducted a Behavioral Health</td>
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<tr>
<td>HHS:</td>
<td>- Build awareness within HHS of the County’s climate change efforts and how HHS work dovetails</td>
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and Climate Change training for all BHCS staff on June 1, 2022, that featured subject matter expert Robert Gould who presented on the intersection of Climate and Mental Health. The training included staff break-out room discussions to collect feedback on questions like “How is climate change affecting your work and affecting people you serve?” to inform the development of the BHCS FY23 strategic work plan. This training was developed with input from DEP, HHS, and OHR staff and the BHCS Mental Health Advisory Committee.

Office of Community Affairs
- The Office of Community Affairs (OCA) Green team raised awareness and educated department staff about Climate Change and the climate crisis by:
  - Creating an HHS Climate Corner infographic titled “Top 5 Reasons Why HHS Cares About Climate” for submission to the Public Information Office for inclusion in the HHS Director’s Corner March newsletter.
  - Develop monthly climate awareness presentations to the OCA managers team to raise awareness and educate department colleagues about the intersections of climate change issues, the health disparity work of the OCA minority health initiatives and programs, and the Community Action Agency’s work addressing low-income and underserved communities. This included arranging for a presentation to OCA managers by the Montgomery County Food Council to update the group on food assistance with climate change. Members of the climate team will present to HHS leadership, managers, and advisory boards and committees on the linkages between public health and climate change.
benefits changes impacting low-income/underserved communities, environmental impacts of food waste, and to discuss opportunities for collaboration.
- Organizing the 1st Annual OCA Park Cleanup at Wheaton Regional Park on April 4, 2022, to commemorate Earth Month. 14 OCA staff participated in the event, including Latino Health Initiative (LHI) and the Community Action Agency staff. Montgomery Parks outreach staff delivered an educational demonstration to increase awareness about the impact of litter, recycling, and the Parks Department’s cleanup efforts and provided cleanup supplies to the team, resulting in the collection of multiple bags of waste and recyclable litter.

| G-2: Establish a Climate Change Academy to integrate Climate Change Training into the Professional Development of MCG staff | **DEP:**  
- Approximately 75 Departmental/Agency Climate Change Ambassadors have been identified to: 1) mobilize staff to green their department’s day-to-day operations, 2) build resilience among vulnerable community members they serve, with a particular focus on how climate change exacerbates existing racial and socio-economic inequities and disparities and, and 3) work as a team with other department Ambassadors to implement and evolve the Climate Action Plan. Ambassadors have participated in four learning sessions, including two "Climate Change 101" sessions with the Association of Climate Change Officers; one with the Innovation Office using the "liberating structures" method to help climate ambassadors launch successful departmental Climate Teams; |
| **• Brainstorm and survey departments to define and shape professional development needs.**  
**• Determine mandatory components of education and training.** | **DEP:**  
- Ambassadors will come together for monthly learning sessions, alternating between informal “Lunch and Learns” and collective consulting sessions where Ambassadors help others solve challenges (similar to the Troika Consulting model). Consideration is being given to enhanced training on "Flow Leadership" to help Ambassadors catalyze change, and creating Ambassador learning groups based on specific focus areas is also being considered. |
and one during which participants shared success stories and strategies to overcome barriers. Ambassadors have been provided with a Climate Action Strategy Development Matrix and a Top 10 List of Actions to think through what actions to pursue.

**OHR:**
- With the Association of Climate Change Officers, DEP leadership, and Montgomery County Innovation Office, the Office of Human Resources developed and implemented a comprehensive Climate Change Academy Curriculum for Climate Change Ambassadors including the following programs: Climate Change Aspiring Leader Program Kick-Off – November 16, 2021 – Chief Climate Change Officer Adriana Hochberg and CE Elrich hosted this event which introduced the Climate Change Curriculum, Role of the Climate Ambassadors, and Identified best practices to apply within county government. Climate Change Ambassador Training- February 15, 2022 and March 10, 2022 – ACAO and Montgomery County Dept of Environment Protection, and the Office of Human Resources Training and Organizational Development hosted a 2-day 4 module virtual Climate Ambassador Training Program.

**MCPS:**
- Staff participated in the Climate Ambassadors Program hosted by County DEP.
| G-3: Incorporate climate competencies into Montgomery County Government job descriptions and Performance Plans (Not in Climate Work Plan 2023) | • Begin review of job descriptions to incorporate climate competencies in positions that are climate relevant.  
• Create climate change competency language.  
• Identify and prioritize with departments the key climate change-related job classifications. | **OHR:**  
- Defined and reviewed a 3-tier competency model with Climate Team. Model was well received; however, due to other competing priorities, the team recommended placing the department pilot review on hold. The recommendation is to pivot to focus on defining a Climate Change Position Strategy to identify and implement new positions to address the increasing responsibilities related to climate change initially in DEP. See G-4. |  |
| G-4: Identify and create new positions that are needed for the County government to prepare for and respond to climate hazards, implement climate adaptation measures, and reduce greenhouse gas emissions | • Through the FY23 budget process, including proposals for new climate positions as needed. | **OMB:**  
- The CE's recommended FY23 budget included 16 new positions for the County's climate efforts, including positions to implement Building Energy Performance Standards and address flooding.  
**OMB:**  
- Continue effort to identify and create new positions needed for the County's climate goals.  
**OHR:**  
- Refocus efforts to research and define positions, roles, and responsibilities and develop applicable job classifications to respond to DEP needs. |  |
| G-5: Establish a cross-departmental Climate Innovation Lab to develop, fund and implement climate and resiliency initiatives | • Launch climate innovation accelerator cohort to support the implementation of FY22 CAP projects. | **DEP:**  
- G-1, G-2, G-5, and G-6 have been consolidated (see G-2).  
**CEX:**  
- The Innovation Office led a half-day training using the innovation method of liberating structures to help climate ambassadors launch successful departmental teams.  
**DEP:**  
- G-1, G-2, G-5, and G-6 have been consolidated (see G-2). |  |
| G-6: Designate Climate Ambassadors within | • Convene meetings/trainings with departments’ Climate Ambassadors and continue the | **DEP:**  
- G-1, G-2, G-5, and G-6 have been consolidated (see G-2).  
**DEP:**  
- G-1, G-2, G-5, and G-6 have been consolidated (see G-2). |  |
| each County department | process of designating ambassadors.  
• Share information about departments' energy usage with ambassadors. | G-7: Evaluate and update county planning, policy, and operations activities to account for the risks of climate change impacts and prioritize the needs of vulnerable residents  
• Update the County’s hazard mitigation plan and potentially the critical infrastructure plan to account for climate change.  
• Conduct extreme weather-based planning exercises and trainings.  
• Coordinate Thrive-CAP implementation through recurring check-in meetings. | M-NCPPC - Planning:  
- Thrive Montgomery 2050 is currently undergoing County Council review. Final approval is anticipated by fall 2022. Meetings to coordinate Thrive Montgomery 2050 and CAP implementation will begin after the final plan is approved.  
- Conduct climate assessments for Zoning Text Amendments and for master plans—Planning Board proposed that the Planning Department should do this instead of OLO under Council Bill 3-22; the T&E Committee agreed to make this change. T&E Committee has held two sessions on this bill, and the bill hasn’t gone to the full Council yet. Montgomery Planning has hired a consultant to help develop the methodology and has kicked off the project. Bill 3-22 is being amended to require the Planning Board to begin producing climate assessments for ZTAs and Master Plans as of March 1, 2023.  
- OEMHS:  
  - Consultant has been selected for the Hazard Mitigation Plan, and work will begin in Q1 of FY23.  
  - Held the Emergency Operations Center (EOC) Spring Functional Exercise on 6/22/22. We had a primer on the Climate Action Plan at the start of the exercise, and the exercise scenario focused | M-NCPPC - Planning:  
- Thrive Montgomery 2050 is currently undergoing County Council review. Final approval is anticipated by fall 2022. Meetings to coordinate Thrive Montgomery 2050 and CAP implementation will begin after the final plan is approved.  
- Conduct climate assessments for Zoning Text Amendments and for master plans—Planning Board proposed that the Planning Department should do this instead of OLO under Council Bill 3-22; the T&E Committee agreed to make this change. T&E Committee has held two sessions on this bill, and the bill hasn’t gone to the full Council yet. Montgomery Planning has hired a consultant to help develop the methodology and has kicked off the project. Bill 3-22 is being amended to require the Planning Board to begin producing climate assessments for ZTAs and Master Plans as of March 1, 2023.  
- OEMHS:  
  - Kick off the hazard mitigation planning process in FY23; anticipate completing the plan in Fall 2023. The hazard mitigation plan will make stronger connections to climate change.  
  - Planning a functional exercise in the Fall of 2023. |
on a derecho, extreme heat, and extreme flooding.

| G-8: Evaluate and update county planning, policy, and operations activities to reduce greenhouse gases | • See related activities in B-7, G-7, T-5, and T-6. | **M-NCPPC – Planning:**  
- Continues to achieve positive environmental impacts as a result of implementing digital signature software. In Q2 of FY22, more than 2,300 digital signatures were received for Commission business, equating to a savings of nearly 4,000 gallons of water, over 1,300 pounds of wood, and reduced nearly 215 pounds of waste.  
• See related activities in B-7, G-7, T-5, and T-6. | **M-NCPPC – Parks:**  
- Parks’ 5-year Sustainability Plan will include detailed metrics and goals around achieving carbon-free operations by 2035 and will align with the CAP. |
| --- | --- | --- | --- |
| G-9: Incorporate climate considerations into the | • Participate in Cost of Carbon study with the University of Virginia, Environmental Finance | **OMB:**  
- Departments submitted climate information alongside their FY23 operating and capital budget | **OMB:**  
- Further, develop the role of climate in the budget process by adding to and/or refining the |
<table>
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<tr>
<th>County’s budgeting processes</th>
<th>Center, and Rotunda Solutions, and incorporate findings into the FY23 budget development process.</th>
<th>requests and the information was included in packets and presentations for the County Executive.</th>
<th>information submitted by departments as part of the justification for their capital and operating budget requests.</th>
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<td>DEP:</td>
<td>OMB will continue to refine its set of climate questions and analytical framework. Early in FY23, DEP and the Department of Finance will be exploring modeling approaches to reduce emissions and enhance resilience.</td>
<td>DOF:</td>
<td>DOF:</td>
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| G-10: Develop financing strategies for implementing climate actions and incorporate climate considerations into County finance practices | • Introduce legislation to expand the role of the Green Bank to also serve as the County’s Resilience Authority to help finance projects focused on addressing the impacts of climate change, including flooding and other resilience activities.  
• Introduce legislation to expand the scope of the Commercial Property Assessed Clean Energy program.  
• Coordinate with the Montgomery County Green Bank Board of Directors and staff on development of financing strategies and ideas. | DOF:                                                                                           | - Develop a monitoring program for the fuel-energy tax appropriation to the Green Bank that will begin in FY23. The monitoring program is intended to confirm that appropriated funds are used in accordance with the authorizing legislation.  
- DOF and DEP are responsible for the CPACE program, which the Green Bank administers. New loans are anticipated to be made in FY23 for energy savings projects in accordance with the revisions made in Bill 46-21. DOF will ensure that CPACE loans are accurately reflected on tax bills and monitor CPACE assessment collections. |
|                             |                                                                                                  |                                                                                                 |                                                                                                  |
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|                             |                                                                                                  |                                                                                                 |                                                                                                  |
| MCGB:                      | - New Structures: Implemented its newest structure with Sandy Spring Bank, where the Green Bank matched its CLEER loss reserve product with an investment of Green Bank capital in the project loan. This novel structure was used with 2 clean energy transactions with Sandy  
- Explore structures and products that could be developed to meet new and emerging needs and revise current products as the market needs | - Continue its engagement with the market to assure understanding of the needs and gaps in funding to make clean energy projects work. | - Continue its engagement with the market to assure understanding of the needs and gaps in funding to make clean energy projects work.  
- Explore structures and products that could be developed to meet new and emerging needs and revise current products as the market needs |
|                             |                                                                                                  |                                                                                                 |                                                                                                  |
Spring Bank and will prove to be a model for more flexible investment structures.

**DEP:**
- Bill 46-21 amending the C-PACE financing program was enacted on March 15, 2022, and became effective on June 27, 2022.
- Bill 44-21—which will provide 10% of the Fuel Energy Tax to the Green Bank to further its work in the County—was passed unanimously by Council on February 1, 2022, and was incorporated into the FY23 operating budget.

**DEP:**
- Expand the amount of private capital that will be brought to the County and make the financing most feasible for the end-user property owners.

| G-11: Develop climate, energy, health and racial equity metrics and a data driven assessment and reporting process | • Develop climate metrics with an emphasis on climate equity metrics.  
• Update the climate webpage to display a dashboard of action status updates.  
• Engage community advisory groups in the development of metrics. | **OMB:**
- Effort was passed on to the Climate Change Officer and DEP during FY22.  
**DEP:**
- Engaged with CEAQAC in developing and reviewing initial climate metric considerations. | **HHS:**
- Explore collaboration opportunities with Healthy Montgomery on health metrics and indicators.  
**DEP:**
- Update the climate webpage to include climate data and metrics information. |

| G-12: Formalize the Climate Leadership Team to guide the implementation of climate plan actions (Not in Climate Work Plan 2023) | • Expand the membership of the Climate Leadership Team and include communications/engagement staff.  
• Draft an Executive Order to formalize its role. | **DEP:**
- Membership of the Climate Leadership Team has also been expanded to include representatives from the Housing Opportunities Commission, Office of Innovation, Department of Health and Human Services, Office of Human Resources, and the Town of Chevy Chase.  
- Drafting of Executive regulations is underway to formalize the Climate Leadership Team. |
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<th>G-13: Update the County’s teleworking and transit benefit policies to encourage MCG staff to reduce vehicle miles traveled</th>
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| **M-NCPPC – Planning & M-NCPPC – Parks:**  
- Updated its teleworking policy in fall 2021 to create more flexibility for increased teleworking opportunities. Montgomery Parks and Montgomery Planning have allowed employees to telework up to 2 days/week based on their work program. Hundreds of employees are now teleworking at least 1 day/week.  
- Piloting a commuter stipend and benefits currently open to M-NCPPC employees working out of Wheaton HQ. The program is two parts - (1) provides a monthly stipend (based on a telework agreement) to all M-NCPPC employees at Wheaton HQ, including those who walk and bike to work, and (2) provides employees the opportunity to contribute to a pre-tax account for commuter expenses. |
| **OHR:**  
- New Telework Policy implemented in October 2021. 4 new training modules released. |
| **M-NCPPC - Planning:**  
- The teleworking policy and commuter stipend are ongoing. |

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<th>G-14: Establish Montgomery County Government Carbon Fund for Air Travel (Not</th>
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| **OHR:**  
- Expand resources on managing in a hybrid environment, calculate the impact of Telework Program on GHG emissions, and provide individual consults and workshops to expand access to telework where appropriate. |
| **DGS:**  
- Completing plans for the consolidation of County government facilities to reduce the footprint, associated costs, and energy requirements. |
<table>
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<tr>
<th>in Climate Work Plan 2022 and 2023)</th>
<th><strong>G-15: Consolidate County climate data</strong></th>
<th><strong>G-16: Conduct climate vulnerability detailed assessments</strong></th>
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<tbody>
<tr>
<td><strong>OMB:</strong></td>
<td>- Effort was passed on to the Climate Change Officer and DEP during FY22.</td>
<td><strong>DEP:</strong></td>
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<td><strong>DEP:</strong></td>
<td>- Created a spreadsheet to track where key climate datasets are housed and how to access them. Instead of a data retreat, a graduate intern met with staff individually to gather data points.</td>
<td>- Began development of a comprehensive Flood Management Plan for the County. This is a multi-year, multi-stage process involving a range of County departments and agencies that will ultimately lead to specific watershed studies intended to identify the causes of and potential solutions to flooding in the County. The effort will also result in recommendations related to the</td>
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<td><strong>DPS:</strong></td>
<td>- Moving forward with a new database system that will capture more information in support of the CAP, including building profile data. There is an opportunity to capture data points related to solar installations and EV charging systems (particularly for commercial buildings; residential EV charging data is already being captured).</td>
<td><strong>DEP:</strong></td>
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<tr>
<td><strong>DEP:</strong></td>
<td>- Update the climate webpage to include climate data and metrics information.</td>
<td>- The initiative began in FY22 to develop a comprehensive Flood Management Plan for the County will continue.</td>
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<tr>
<td><strong>DEP:</strong></td>
<td>- The initiative began in FY22 to develop a comprehensive Flood Management Plan for the County will continue. - DEP continues to partner with DOT and DGS on the DoD NSA Bethesda Resiliency project - USACE Planning Assistance to States studies-- DEP will be proposing to USACE several areas for potential studies.</td>
<td><strong>M-NCPPC - Planning:</strong></td>
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- Host a "data retreat" with County departments to develop a comprehensive list of climate data for publicly displaying.  
- Implement US Department of Defense resilience grant of NSA Bethesda facility (Walter Reed).  
- See G-7 for related activities.
<p>| Structure and resources of the County government focused on flooding preparation, response, and recovery. | - MCDOT, DGS, and DEP are working with the Department of Defense/NSA Bethesda Installation and surrounding community to identify climate change-related vulnerabilities in the transportation, energy, and stormwater sectors and develop a Resiliency Implementation Plan for the Installation. |
| - DEP will work in partnership with OEMHS, MCFRS, DOT, and others to implement real-time monitoring of flooding events through the newly installed (FY22) Flood Sensors deployed at 35 locations throughout the County. DEP is working with other County agencies and the Department of Homeland Security to assess the utility and long-term operations of this new system of Flood Sensors. |
| - DEP Dam Safety Response Program will continue to implement Emergency Action Plans for the 8 dams and 2 levees that DEP is responsible for, including monitoring and maintaining preparedness to respond to storm events that may trigger staff deployment based on predicted rainfall amounts.&quot; |</p>
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<tr>
<th>Public Engagement, Partnerships, and Education Actions</th>
<th>FY22 Plans</th>
<th>FY22 Accomplishments</th>
<th>FY23 Plans</th>
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<tr>
<td>P-1: Undertake vigorous public outreach campaign aimed at empowering the public with information on how to reduce emissions and adapt to the impacts from climate change</td>
<td>• Conduct expanded public outreach activities on climate change. • Launch the Climate Stories Ambassadors program with a focus on amplifying the voices and perspectives of underserved communities.</td>
<td>DEP: - Working with community members affiliated with The Climate Mobilization's Montgomery County chapter to disseminate information on the Cool Block, empowering residents to mobilize their communities to take climate action. - See P-3. DEP and MCPL: - Co-hosted a Contemporary Conversations session with climate change journalist and author Elizabeth Kolbert. OEMHS: - DEP, OEMHS, and HHS met to discuss community outreach events, materials, and other ideas for Alert Montgomery enrollment in the US 29 corridor. HHS: <strong>Charlemos con Zumba</strong> - HHS Latino Health Initiative (LHI) conducted 2 6-session, virtual, Spanish language physical activity cohorts (12 total sessions) of “Charlemos con Zumba,” or “Let’s Chat with Zumba”). Zumba sessions included a presentation and discussion with participants on various climate related topics. LHI partnered with staff from DEP and Montgomery Parks to have the presentations and</td>
<td>DEP: - Climate Change Communication Coalition will launch the umbrella campaign for outreach around five areas of GHG reduction: using less energy at home, planting trees, reducing food waste, purchasing flood insurance, and transportation choices. - See P-3. OEMHS: - Participating in an effort to expand outreach to vulnerable communities in the US 29 corridor and how to expand Alert Montgomery subscriptions in the region of the County. HHS: - HHS will support the Alert Montgomery communications campaign to ramp up the number of people living along the US 29 corridor who get signed up for Alert Montgomery emergency notifications. - HHS will support the development of communications tools that convey culturally-appropriate messages to audiences in multiple languages.</td>
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discussions delivered by subject matter experts in Spanish. The Fall 2021 cohort had an average of 13 participants attended the sessions, while the Spring 2022 cohort on average had an average of 30 participants.

Climate Stories Ambassadors Project
- Community Action Agency (CAA), African American Health Program (AAHP) and LHI met with DEP and its partners to plan the launch of the new Climate Stories Ambassadors Training Project, considering barriers to participation, and using best practices learned through their experiences of working with people with lived experience. This included listening sessions with Community Action Board leaders, who suggested framing the program to align closely with specific health and social, and economic consequences of climate change which disproportionately impacts the county's s economically and racially diverse residents.

Graduates of CAA’s Community Advocacy
- Institute and individuals associated AAHP were the target participants recruited for the first Climate Ambassadors Training Project cohort in the Summer of 2021. 14 CAI graduates applied to the program, and 10 were able to participate. 5 CAI graduates recorded climate stories, which are posted HERE. The sixth video posted on the site features the husband of a CAI graduate.
- DEP and LHI staff worked with the Climate Stories Project Director to adapt the Climate Ambassadors Training into Spanish in order to offer the training to Spanish speakers in the Spring 2022 cohort. Recruitment for the Spanish Behavioral Health and Crisis Service (BHCS)
- Development of BHCS’s FY23 strategic work plan will incorporate climate as a primary pillar and will include an analysis of staff feedback provided during the June 1, 2022 staff meeting and will consider climate-specific actions such as:
  a) Having more cooling/warming stations for the homeless population
  b) Increase teleworking to decrease traffic and pollution
  c) Expanding resources to decrease heating and cooling costs
  d) Development of an interview and storytelling project that shares clinical staff experiences working with clients on the impacts of climate change on behavioral health
language cohort was conducted by LHI, DEP, and other community partners. 43 Spanish-speaking community members were recruited to participate in the 3-session training in Spanish. Participants learned about the impact of climate change in their communities and began documenting their own climate stories using video recording skills developed in the trainings.

- LHI contracted a project videographer to conduct 14 participant interviews that will be edited and adapted for future climate promotion projects.

Behavioral Health and Crisis Service (BHCS)
- In conjunction with the Mental Health Advisory Committee, convened a sub-committee on Environmental and Climate to address the impact of the climate crisis on mental health, community connectedness and resiliency.

Community Outreach and Engagement
- On June 15, 2022, LHI hosted an online webinar entitled Latin@s’ Climate Experience in Montgomery County, to provide insight into Latinos knowledge and attitudes about recycling, community engagement and climate action. LHI staff presented an overview of its climate work, shared examples of how that work intersects with LHI health education and awareness raising efforts and presented the findings from a series of community conversations with representatives from the Latino community regarding recycling and climate change. The webinar included Doug Weisburger from DEP who presented an overview of DEP’s climate action plan and highlighted the importance of cross agency
Partnerships in conducting meaningful and effective community engagement related to climate action. 12 participants attended the webinar, including internal and external community partners.
- LHI raised awareness of climate-related issues and promoted climate action by creating monthly social media content, including posts to commemorate Earth Day, Worldwide Water day, bicycle riding as a climate-friendly mode of transportation, and everyday actions to take at home, such as air drying clothing, to save on home energy costs and positively impact the climate.
- LHI staff attended Montgomery County Greenfest 2022 at Brookside Gardens. It reached more than 100 individuals to raise awareness about the intersection of human health and the health of the planet and climate.

| P-2: Conduct an outreach campaign that uses evidence-based communications strategies | • Use evidence-based communications strategies in tandem with P-1 and P-3. | OEMHS:  
- Drafting the position description to begin recruitment for the Climate Adaptation Program Manager in FY 23. This position will provide climate, flood, and related outreach.  
DEP:  
- See P-1 and P-3. | OEMHS:  
- Recruit a Climate Adaptation program manager in FY23 to support outreach related to flood, Alert Montgomery.  
DEP:  
- Utilizing the results from our campaign in Spring 2022, we will create a campaign that uses evidence-based communication strategies along with feedback from the public.  
- See P-1 and P-3. |
| P-3: Form a Climate Change Communication Coalition | • Launch the climate change communications coalition.  
• Coordinate department-level climate communications. | **DEP:**  
- The Climate Change Communication Coalition (C4) was established and is comprised of representatives from 12 different departments and agencies. C4 initiated a campaign soliciting feedback from the public on the Climate Action Plan, particularly as it relates to resonant themes that can be used in ongoing outreach.  
**M-NCPPC – Parks:**  
- Is a participating member in the County’s Climate Action Communication Coalition, which met 2-4 times per month throughout the Winter-Spring of 2021-2022. The Coalition is creating a promotional campaign to educate and inspire the public on simple lifestyle changes people can make to reduce their carbon footprint.  
**DEP:**  
- The Climate Change Communication Coalition (C4) will be meeting bi-monthly to discuss the creation and progress of the outreach plan.  
**M-NCPPC – Parks:**  
- Parks’ Public Affairs & Community Partnerships Division remains an active member of the Climate Change Communications Coalition. |
| P-4: Enhance County websites to focus more sharply on climate change | • Add links to County climate initiatives to the County homepage, related department homepages, and other high traffic County webpages. | **DEP:**  
- A complete refresh of the County’s climate website is underway. The updated website will be linked more directly from the County’s main landing page.  
- The County’s flood website is being updated to include additional information and resources.  
**DEP:**  
- The updates to the climate and flood websites will be completed in early FY23. |
| P-5: Establish a Community Justice Academy in which Graduating Community Ambassadors Representing their Neighbors Conceive and Co-create Integrated Health, Equity and | • Hire a consultant to assist with designing the academy.  
• Identify grant funding to support academy start-up in late FY22.  
• Collaborate with community-based organizations on program design and delivery. | **DEP:**  
- New Climate Engagement Program Manager hired; met with Racial Equity and Social Justice Committee to discuss mutual goals, priorities, and approaches; established a fully executed contract with an expert consultant; established "working purpose;" established criteria for building out the Core Team and Collaborative Teams, both comprised of community members  
**DEP:**  
- Ground the Core and Collaborative Teams in transformative frameworks such as Community-Driven Planning, Participatory Action Research, and Collaborative Governance; initiate broader community outreach to lay foundation for community and government collaborators; develop high-level, loosely held concept of Community Justice Academy and build mechanisms for |
<table>
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<tr>
<th>Quality-of-Life Solutions Directly Applicable to their Communities</th>
<th>and government officials; created draft work plan; and held a kick-off meeting with initial Core Team members to explain the approach to building the Community Justice Academy.</th>
<th>community feedback; build community relationships centered around listening, focusing on most impacted and underrepresented communities; conduct power analysis using the Spectrum of Community Engagement to Ownership; create community asset map to identify possible existing similar efforts and potential partners; develop Racial Equity Framework to guide the 'who' and the 'how' of the work; develop curriculum, ambassador structure, Community Justice Fund management, and governance.</th>
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</table>
| **P-6: Use the Climate Energy and Air Quality Advisory Committee as a resource to advise the County** | • Support the development of metrics.  
• See related activities in G-11. | DEP:  
- CEAQAC continues to meet monthly to advise the County on climate, energy, and air quality issues. In FY22, CEAQAC provided recommendations on the FY23 operating budget, gave guidance to the Montgomery County Public Libraries on a climate speaker series, and developed initial climate metric considerations.  
CEAQAC also started coordinating climate-related metrics with the Racial Equity and Social Justice Advisory Committee. |
| **P-7: Facilitate ongoing input from community members on the CAP’s implementation** | • Participate in community meetings about the Climate Action Plan.  
• Conduct CAP roadshows in community locations to meet people where they are. | DEP:  
- The Climate Team discussed the Climate Action Plan and planned implementation at various community events and venues and met with interested community members to identify partnership opportunities. Community meetings  
DEP:  
- The Climate Team will continue participating in community meetings and events to discuss the Climate Action Plan and climate initiatives. |
- See related activities in P-5.

**DEP:**
- See P-7, P-9.

**DEP:**
- See P-7, P-9.

**M-NCPPC – Parks:**
- In coordination with the County's Climate Action Communication Coalition, Parks began the first phase of soliciting public input in April 2022. The workgroup is asking the public to submit words, phrases, or a sentence that will inspire neighbors to act on simple climate solutions. Parks shared the campaign on social media and e-newsletters through May 27, 2022.

| P-8: Engage County artists through public art installations to raise awareness, discussion, and action on climate change | • Provide this support through two new outreach and partnerships positions at DEP and leveraging staff capacity in other departments. | **DEP:**
|---|---|---|
| P-9: Support the efforts of community organizations, businesses, and associations that | • Publicly display the climate change art contest winning entries in the virtual information room and other venues. | **DEP:**
|   |   | **DEP:**
|   |   | - DEP staffer agreed to serve as a Public Arts Trust Steering Committee member.
|   |   | **DEP:**
|   |   | - Capacity permitting, DEP to work with Departmental Climate Ambassadors to work with the Arts and Humanities Council of Montgomery.
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<th>P-10: Establish a statewide coalition of local governments and youth groups focused on advancing ambitious state climate policy by collectively advocating their positions before the state legislature, Public Services Commission, and the utility companies</th>
<th>Host strategic planning sessions with other local MD jurisdictions to plan advocacy actions for the upcoming General Assembly session.</th>
<th>DEP: The Department co-developed the formation of the Maryland Coalition of Counties and Cities for Climate Action (MC4A), a statewide climate coalition of local governments. MC4A has launched and is meeting regularly.</th>
<th>DEP: DEP will continue to participate in, co-develop, and leverage the local government coalition to advance progress at the State level. - Climate Interns and DEP’s Climate Engagement Program Manager are having exploratory conversations with youth-led organizations on the need for a coalition, with a report finished by Q1 of FY23.</th>
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<tr>
<td>P-11: Establish partnerships with federal agencies located within the County’s boundaries on GHG mitigation and climate resiliency efforts</td>
<td>Implement Department of Defense resilience grant for NSA Bethesda facility (Walter Reed). Collaborate with the National Institute of Standards and Technology to install a GHG monitoring station at a County-owned site.</td>
<td>DEP: In support of NIST and Penn State University’s climate research efforts, in 2022, Penn State University installed a combined wind/CO2 sensor instrument at the Montgomery County Yard Trim Composting Facility. For the next 12 months, the instrument will record the CO2 flux due to the exchange of the atmosphere with pasture lands in a rural, agricultural area like Dickerson, MD. Also, see G-16.</td>
<td>DEP: See G-16.</td>
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<td>P-12: Advocate for the continued integration of climate change education into the existing school curriculum</td>
<td>Elevate climate change content where it already exists in the K-12 MCPS curriculum. Create formal MOU to establish County/MCPS relationships for climate change education and training. Identify County and MCPS lead</td>
<td>MCPS: Work is well underway in science and social studies to identify the myriad of climate change and energy curricula to ensure that climate change and energy curricula are embedded into the Green Schools process.</td>
<td>MCPS: Elevating programs through the community superintendents and talking with non-profits about</td>
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| P-13: Develop a standardized climate change curriculum across public schools and recommend the same for private schools and home schools | teams to ensure flow of support and collaboration. | connections in the current curriculum and highlight that content. | successful green schools so that more schools will want to participate in green schools’ efforts.  
- Aiming to increase the number of green schools.  
- Create talking points for principals to use at parent meetings, with some background information about climate change education and what’s happening, helping principals feel more comfortable knowing where it is in the curriculum and be prepared to answer tough questions. |
|---|---|---|---|
| • Continue implementation of the environmental literacy curriculum, which embeds climate change.  
• Identify curriculum areas where additional climate change content could be created and integrated, including environmental justice.  
• Promote climate change resources developed by students, such as https://climateedu.org | | | DEP:  
- Work with MCPS staff to develop standardized courses for K-12 students.  
MCPS:  
- Develop climate change learning standards because they are needed before developing a curriculum [between the Office of Curriculum and Instruction and the Science Office.]  
- Develop a K12 environmental literacy plan that addresses environmental and climate standards. The MCPS environmental literacy plan can be shared with private schools. |
| P-14: Provide professional development for educators on climate change topics | • Continue providing and expanding professional training for MCPS staff on sustainability and climate change curriculum lessons.  
• Conduct climate change symposiums for MCPS students and staff.  
• Increase the comfort level of educators to answer questions about climate change. | MCPS:  
- As part of the review of the current MCPS science and social studies curriculum, areas are being identified to embed additional climate change content that addresses the MSDE environmental literacy standards (that includes climate change education). | DEP:  
- Through the Montgomery Energy Connection program, provide presentations and workshops for teachers and PTA members on how to reduce energy usage and make changes that will reduce the impact of GHG emissions.  
MCPS:  
- On-going training to provide professional development for educators on climate change. MCPS will build on the environmental literacy plan |
| | | MCPS:  
- Several virtual MD Green School support sessions were held in Fall 2021 - Winter 2022 to | |
| P-15: Use school gardens or other outdoor learning facilities as a jumping off point to address a multitude of climate related topics | • Continue encouraging MCPS schools to build and use school gardens for instruction.  
• Continue to advocate for garden coordinators (both volunteers and paid positions) at MCPS schools to assist with garden building and maintenance.  
• Support MCPS schools with creating and using outdoor learning spaces while integrating the use of outdoor spaces into the curriculum. | M-NCPPC – Parks:  
- Parks Community Garden Program Manager serves as a Co-Chair of the Gardening Subcommittee (under the Montgomery County Food Council). This group aims to highlight, advance, and create opportunities for gardening and local food production across the county.  
M-NCPPC – Parks:  
- Black Hill SEED (Sustainable Education Every Day) classroom is in the design phase and will begin construction in Fall 2023. The classroom is a sustainable, modular learning space that encourages creative education through the building’s living and technical components. For example, the SEED Classroom is net-zero water and net zero energy and will allow students to track energy production and rainwater collection. This community space will provide an example of how people can learn in comfortable and beautiful spaces that are healthy for both us and the environment. The new Black Hill Community Garden will be sited right next to the classroom and will also serve as a learning tool around sustainable/resilient food systems.  
MCPS:  
- Authorized a new position in FY23, a Live Infrastructure Manager, and work is underway to fill this new position. The position will keep everything green in working conditions and build the capacity of people who can keep everything working—to nurture/encourage people to use what’s already there and expand how it can become a better learning environment. This effort will encompass not just school gardens; it will be inclusive of everything that’s part of the living infrastructure. | assist MCPS Green Team Leaders in certifying/recertifying as Green Schools.  
- Hosted a Fall Symposium to celebrate American Recycling Day. Students, staff, and school-based Green teams learned how MCPS contributes to the 4R’s—"Reduce, Reuse, Recycle, Rethink.”  
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Whenever a new curriculum is introduced, there is funding for professional development. |
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<th>P-16: Develop increased opportunities for students to participate in climate change learning experiences outside of the classroom</th>
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<td><strong>• Host a Youth Climate Summit in Winter/Spring 2022 for MCPS students.</strong></td>
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<td><strong>• Identify opportunities for extracurricular activities and Student Service Learning, including local projects at students’ schools.</strong></td>
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<td><strong>• Increase student opportunities for exposure to careers in the green industry and knowledge of the pathways to get there, including internship opportunities and hands-on experiences with organizations working on climate change.</strong></td>
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<td><strong>• Partner with M-NCPPC – Department of Parks nature centers as important venues for providing climate change learning experiences for students.</strong></td>
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<td>- Parks Nature Centers’ Mission is to enrich people’s lives and bring communities together through unforgettable experiences, meaningful connections, and appreciation for nature. The nature centers also offer a diversity of services to keep up with trending topics and have served as a space to educate the public on climate-related topics through the following programs:</td>
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<td>- Parks’ Brookside Nature Center offered a self-guided trail program, “Fahrenhike”. Participants use a worksheet to guide them through a series of activities and provide real-world examples of how temperature and climate and changes in weather patterns affect plants, animals, and people. There is a specific reference to a warming climate/climate change at the conclusion of the activity.</td>
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<td>- Black Hill Visitor Center was successfully recertified, and Meadowside Nature Center extended its certification as a Maryland Green Center with MAEOE (Maryland Association for Environmental and Outdoor Education). The Maryland Green Center award represents a commitment to the Maryland Green Schools Program and requires the centers to demonstrate best management practices for sustainability through waste reduction and habitat conservation. The Nature Centers continue to support local schools with the implementation of environmental literacy and assist them in earning Green School status.</td>
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<td>- 2022 Greenfest celebration was hosted in person for the first time in two years at Brookside</td>
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<th>M-NCPPC – Parks:</th>
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<td>- Parks Nature Centers will continue providing opportunities for students to participate in outdoor learning experiences that connect back to climate change.</td>
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<tr>
<td>- Black Hill SEED (Sustainable Education Every Day) classroom is in the design phase and will begin construction in Fall 2022. The classroom is a sustainable, modular learning space that encourages creative education through the building’s living and technical components. For example, the SEED Classroom is net-zero water and net zero energy and will allow students to track energy production and rainwater collection. This community space will provide an example of how people can learn in comfortable and beautiful spaces that are healthy for both us and the environment. The new Black Hill Community Garden will be sited right next to the classroom and will also serve as a learning tool around sustainable/resilient food systems. The community gardens should break ground in the summer of 2022.</td>
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Gardens through a coalition of public, non-profit, and university partners. There were 5,000 attendees, and it was a chance for residents to learn more about electric vehicles, sustainability/climate action in the county, and more!
- During 2022 Earth Month, Dr. Sacoby Wilson presented at the Montgomery Parks’ speaker series about the ongoing development and implementation of the environmental justice mapping tool MD EJSCREEN.
- Black Hill Visitor Center saw over 1,400 students in the spring of 2022 for meaningful watershed field experiences, which often touched upon how climate change affects our local habitats and wildlife.

### MCPS:
- Build on the Youth Climate Summit and Town Hall meetings, working with student government, the curriculum office, and science and social studies departments.
- Investigate other student climate programs outside of MCPS and other jurisdictions for potential replication or partnership in the County.

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<th>P-17: Develop sustainability goals for schools to reach and provide incentives to do so</th>
<th>MCPS:</th>
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| • Increase the number of MCPS schools certified as Maryland Green Schools, focusing on middle schools.  
• Identify ways to provide stipends for leaders of Green Schools programs. | - MCPS Board of Education approved a new Sustainability Policy on June 28, 2022. Over 1000 participants engaged in information sessions, and over 100 written comments were received, with the majority supporting the new policy. |
|  | MCPS: |
|  | - Begin implementation of the Sustainability Policy (ECA).  
- MCPS schools are required to complete a sustainability action plan. The form provides schools with an opportunity to reflect on where they are and where they want to go. |
| P-18: Encourage climate change action at home | • Expand the MCPS Community Resources webpage with information on what students and families can do at home to tackle climate change.  
• Promote energy awareness during Energy Action Month in October.  
• Partner with Parent Teacher Associations to use School STEM nights as opportunities to talk to parents about climate change action at home. | **MCPS:**  
- MCPS continues to partner with DEP on food composting at 2 central locations, and staff and students have begun composting programs at 13 schools. Staff has developed Best Practices Documents for Food Sharing Tables and supported implementation at several schools, to a total of 42 schools. Several other streams for recycling (markers, batteries, etc.) were initiated, and about 80% of the schools participated in some fashion in at least one of the new FY23 initiatives.  
- Division of Sustainability will share data with schools and give them real-time information so they know how their schools are performing.  
- Division of Sustainability will continue working with schools to support individual schools’ efforts. | **MCPS:**  
- Expand on FY22’s efforts in partnering with PTAs. Everything done at school is consistent with what students can do at home. MCPS is working on "building a bench" to ensure long-term continuity.  
- Investigating a potential partnership with MCPL for books with green themes; MCPL summer reading challenge—including green-themed books and practices.  
**DEP:**  
- Through the communication plan and outreach efforts, we will reach 1000 families and encourage them to take climate action in their homes. |
| P-19: Establish cross-departmental partnership to facilitate implementation of climate goals at County schools | • Establish a mission statement for this group. Determine department/agency participant list and begin convening meetings. | **MCPS:**  
- Met monthly with various agencies to solve related issues. | **MCPS:**  
- Convene the cross-departmental partnership meetings quarterly or as needed. Staff will develop agendas in advance with a specialized time for the educational/curriculum piece vs. the operational discussions to enable more focused discussion. |
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<th>Economic Development Actions</th>
<th>FY22 Plans</th>
<th>FY22 Accomplishments</th>
<th>FY23 Plans</th>
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<tr>
<td>Sustainable Economic Development</td>
<td>• Complete the Sustainable Economic Development Plan, an economic inclusion strategy based on the CAP, including identifying actions with high job creation potential and career pathways for underrepresented and historically marginalized people. • Complete analysis of opportunities to transition “legacy businesses” (those that contribute to community stability and identity) into worker-owned coops, particularly those with the greatest potential to advance racial equity and contribute to the County’s resiliency and climate change goals.</td>
<td>DEP: - Emerald Cities Collaborative completed the &quot;High Road Economic Inclusion Framework for an Equitable Climate-Ready Economy&quot; with recommendations on a) training a diverse and inclusive workforce that meets the demand for the thousands of green jobs generated by the CAP and ensures that these jobs are accessible and lead to career pathways and b) aligning and leveraging local anchor institutions' procurement to drive the County's climate goals by procuring local, organic food from our Agricultural Reserve. In addition, Project Equity completely analysis evaluating the opportunity to transition legacy businesses into worker-owned businesses to enhance economic stability, build local resilience, and increase community wealth for underserved community members.</td>
<td>DEP: - Hire Green Workforce Liaison to help align the County's Climate Action Plan with WorkSource Montgomery's Local Area Workforce Plan and the Office of Procurement's equity and inclusion goals; jumpstart the development of an anchor strategy to align major County anchor institutions' food purchasing with the County's climate, resilience and food security and sustainable agriculture efforts; enhance support to Impact Silver Spring to advance its existing work supporting and expanding worker-ownership business models.</td>
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<tr>
<td>Zero Waste Actions (Not in Climate Work Plan 2022)</td>
<td>FY22 Plans</td>
<td>FY22 Accomplishments</td>
<td>FY23 Plans</td>
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<td>DEP:</td>
<td>- Zero waste actions related to food scraps composting are described in S-5.</td>
<td>DEP:</td>
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<td>- In coordination with the Solid Waste Advisory Committee, DEP will create a tracking mechanism for regularly reporting on progress related to Zero Waste activities.</td>
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ACRONYMS

- AAHP: African American Health Program
- AHFP: Agricultural History Farm Park
- BDS - Business development specialist
- BEPS: Building Energy Performance Standards
- BOE: Board of Education - CAA: Community Action Agency
- CAI: Community Advocacy Institute
- CAP: Climate Action Plan
- CBT: Chesapeake Bay Trust
- CCE: Community Choice Energy
- CEAQAC: Climate, Energy, and Air Quality Advisory Committee
- CE: County Executive
- CEX: County Executive Office
- CIP: Capital Improvements Program
- C-PACE: Commercial Property Assessed Clean Energy
- DEP: Department of Environment Protection
- DGS: Department of General Services
- DPS: Department of Permitting Services
- EV: Electric Vehicle
- FEMA: Federal Emergency Management Agency
- UMD: University of Maryland
- UME: University of Maryland Extension
- USDOT: United States Department of Transportation
- WMATA: Washington Metropolitan Area Transit Authority
- WSSC: Washington Suburban Sanitary Commission

CONTACT INFORMATION

For questions or comments about this report, reach us at: climate@montgomerycountymd.gov