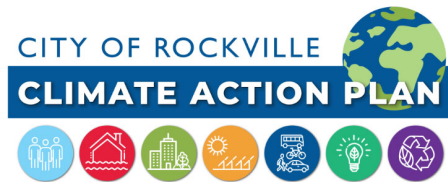


Outline

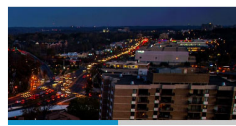
1. Background
2. Action Status Summary
3. Highlights of 2024 Accomplishments
4. Next Steps



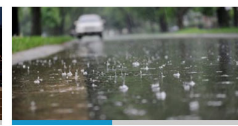
The Mayor and Council adopted Rockville's first Climate Action Plan (CAP) on January 10, 2022 with goals to reduce greenhouse gases, prioritize equity, and build resiliency. The CAP sets a goal to reduce greenhouse gas emissions by at least 50 percent (from 2005) by 2030 and approach carbon neutrality by 2050. Since plan adoption, the Maryland General Assembly established a more ambitious goal to reduce greenhouse gas emissions by 60 percent (from 2005) by 2031 and net zero by 2045.

Rockville's CAP comprises 42 original actions and 8 actions for future monitoring in categories involving energy efficiency, renewable energy, transportation, land use management, materials and waste management, resiliency, and public engagement and oversight.

The dashboard reflects the Climate Action Plan's 2023 Annual Report.



Reduce Greenhouse Gas (GHG) Emissions
Reduce GHG emissions from the community and municipal government operations to at least 50 percent below 2005 levels by 2030 to be on track to reach net zero by or before 2050.



Resiliency
Improve the capacity of our community, homes, businesses, and natural environment to prevent, withstand, respond to, and recover from climate change impacts such as rising temperatures, more frequent and intense heat waves, heavy rainfall, and severe storms.



Public Engagement and Oversight
Incorporate equity in implementation and conduct inclusive engagement to reduce environmental disparities and protect and empower vulnerable communities.

<https://performance.envision.com/dashboard/rockvillemd3023>

Climate Action Plan

7 Categories, 42 Actions



Energy Efficiency (9 actions)

Increase energy conservation and efficiency and reduce fossil fuel use in all existing and new buildings and infrastructure.



Renewable Energy (5 actions)

Increase the generation, use and access to affordable, reliable and clean energy systems.



Transportation (9 actions)

Expand safe, efficient, affordable, and equitable multi-modal transportation options that utilize clean and efficient energy sources.



Land Management (3 actions)

Maximize the economic and social benefits of land while maintaining or enhancing natural systems and ecological health to ensure resiliency.



Materials and Waste (3 actions)

Manage solid waste by reducing, reusing, recycling, composting, and sustainable purchasing.



Resiliency (9 actions)

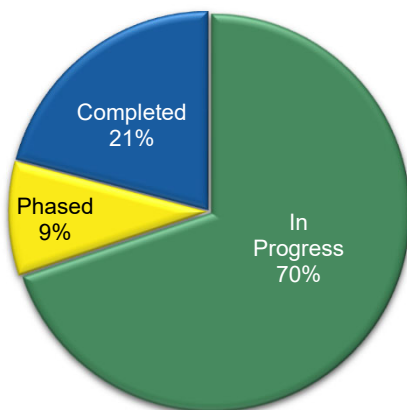
Improve the capacity of our community, homes, businesses, and natural environment to prevent, withstand, respond to, and recover from climate change impacts such as rising temperatures, more frequent and intense heat waves, heavy rainfall and severe storms.



Public Education and Oversight (4 actions)

Conduct inclusive and equitable public engagement and involvement and establish systems for monitoring and accountability to encourage participation and support plan success.

CAP Action Status Summary



Legend

- Completed
- In Progress
- Phased
- Upcoming
- Disruption
- Status Pending



Public Engagement & Oversight



Education and Outreach (C-25, C-05, C-17)

- Increased subscribers to online Environment & Sustainability newsletter to 3,243
- Participated in 12 in-person and virtual outreach events with 1,065 impressions
- Hosted 3 Climate Solutions education sessions with 56 participants
- Environment Commission hosted outreach booths at 6 Farmers Market events



City of Rockville

Environment and Sustainability News

New Food Scraps Drop Off in Twinbrook



5

rockvillemd.gov/climate



Public Engagement & Oversight



FY 2025 Budget Capital & Operating Appropriations (M-15)

- \$4.3 million in Capital and Operating appropriations
- >\$1.2 million in new grant awards
- >\$1 million in public/private investments for EV charging on city property

Grant Award	Project	Funding Source
\$700,000	Flood Resiliency Master Plan	Maryland Department of Emergency Management/FEMA
\$181,720	Tree planting at RedGate	Chesapeake Bay Trust
\$130,600	LED streetlight conversions	Maryland Energy Administration
\$134,050	Solar rooftop at Lincoln Park Community Center	Department of Energy
\$63,000	Thomas Farm Community Center LED lights	Maryland Energy Administration
\$48,000	EV charging stations	Maryland Energy Administration

6

rockvillemd.gov/climate



Energy Efficiency: Community



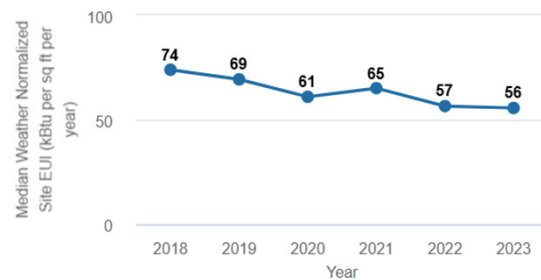
Building Energy Performance Standards (BEPS) (C-01)

- Maryland and Montgomery County developed BEPS regulations

204 buildings reported energy data

- 2% energy reduction between 2022/2023 and 25% decrease since 2018

Median Weather Normalized Site EUI - All Benchmarked Buildings in Rockville (kBtu per sq ft per year)



Energy Use Intensity (EUI) refers to the amount of energy used per square foot annually.



Energy Efficiency: Community



Building Codes (Chapter 5) (C-03)

Adopted code amendments in May 2024 included:

- Improved Efficiency
- EV Charging Residential
- EV Charging Commercial
- Solar-Ready Homes
- Electrification-Ready
- Storage-Ready
- Grid-Ready



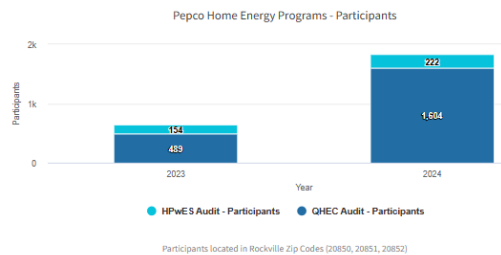
Energy Efficiency: Community



Home Energy Improvements (C-05)

- Promoted Pepco's home energy incentive programs
- 1,826 homes participated in Pepco's home energy programs, 183% increase

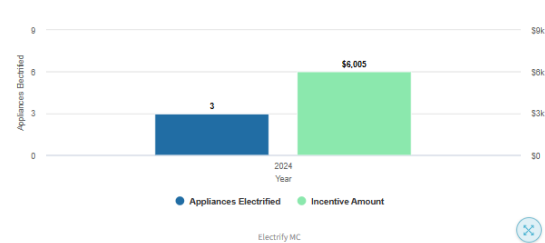
ILL (C-05) Pepco Home Energy Programs - Participants



Home Electrification (C-06)

- Promoted Montgomery County's pilot home electrification incentive program, 14 people participated in education session
- 3 Rockville homes electrified appliances, receiving \$6,005 incentives

ILL (C-06) Electrify MC Participation

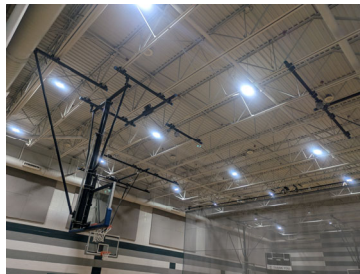


Energy Efficiency: Municipal



Facility Energy Efficiency (M-01)

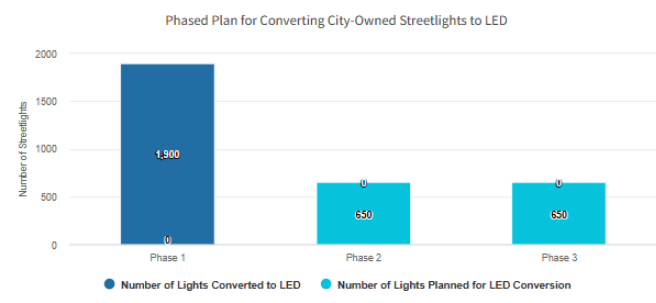
- Converted 1,045 lights to LED at the Senior Center, Twinbrook Community Recreation Center, and Fleet by leveraging \$250,000 from MEA grants and Pepco rebates.



LED Streetlight Conversion (M-02/CIP TA22)

- Phase 1: 1,900 lights completed
- Phase 2: 650 planned FY 2025 (completion in 2025)
- Phase 3: 650 planned FY 2026 (completion in 2026)

ILL (M-02) LED Streetlight Replacement Status





Land Management



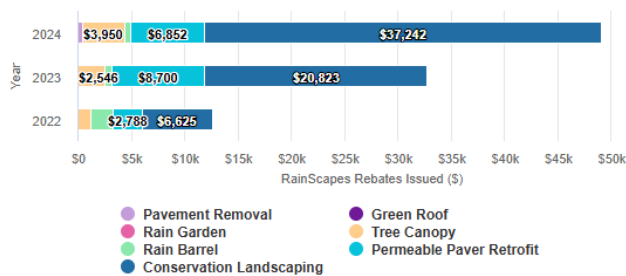
Environmentally Friendly Landscaping (C-17, M-09, C-24)

RainScapes issued \$49,043 in rebates (49% increase) for 56 small-scale environmental stormwater projects.

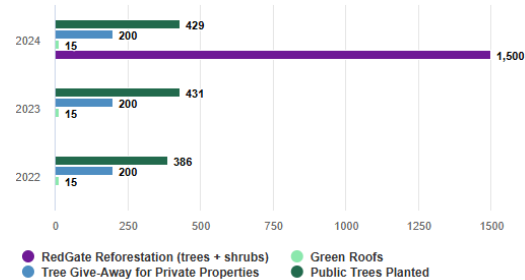
Planted 1,929 trees and shrubs at RedGate and other city property, distributed 200 native trees to residents.

465 Weed Warrior volunteers removed invasive plants from parks.

RainScapes Rebate Program



Green Practices



11

rockvillemd.gov/climate

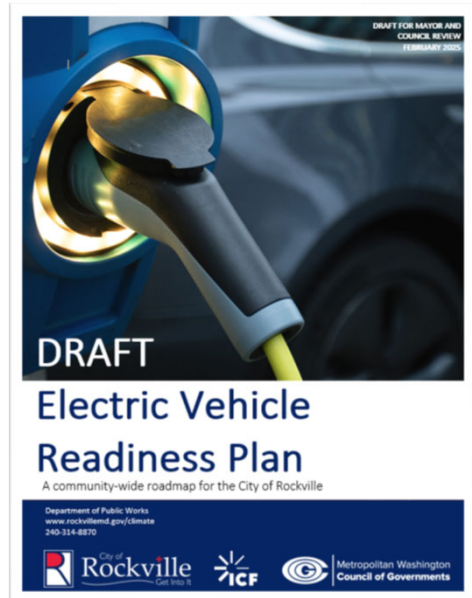
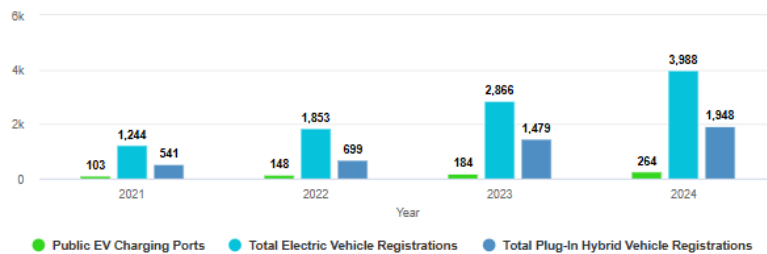

Transportation: Community



Electric Vehicle Readiness Plan (C-11)

- Drafted Rockville's first EV readiness plan with input from 432 individuals (adopted March 2025)
- Electric vehicles and hybrids registered in Rockville zip codes rose to 5,936 (36% increase)
- 264 public EV charging ports

Electric Vehicles Registrations and Public EV Charging Ports in Rockville Zip Codes



12

rockvillemd.gov/climate



Transportation: Municipal



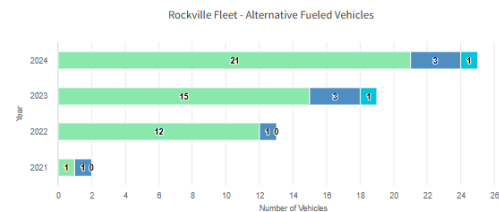
EV Charging Infrastructure CIP (M-07)

- Fleet Charging: designing stations for City Hall, Police, Recreation Services and 6 Taft Court
- 17 Public Charging Ports: Pepco constructed public charging stations to serve Thomas Farm Community Center, Mattie J.T. Stepanek Park and street parking on Vinson Street, Prettyman Drive and Bouie Avenue



City Fleet (M-06)

- 21 battery electric, 1 plug-in hybrid, and 3 hybrid vehicles



13

rockvillemd.gov/climate

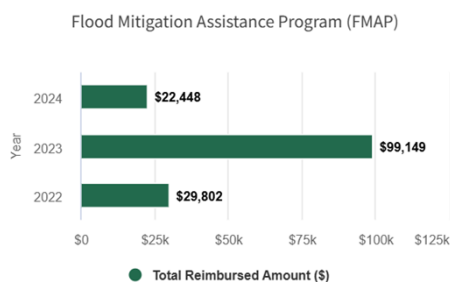


Resiliency: Community



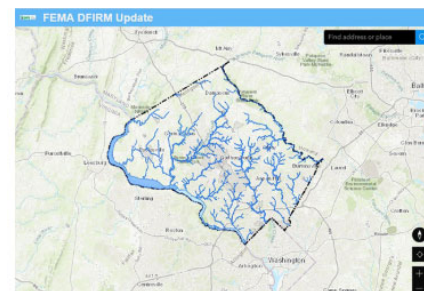
Climate Resilient Buildings (C-20)

- Flood Mitigation Assistance Program (FMAP) reimbursed 11 properties \$22,448 for flood mitigation projects
- Partnered with Montgomery County Green Bank, Chesapeake Bay Trust to expand water quality grant program.



Floodplain Map Update (C-21)

- FEMA issued new preliminary Floodplain Insurance Rate Maps
- 143 people attended flood information sessions



FEMA Preliminary Flood Map

14

rockvillemd.gov/climate

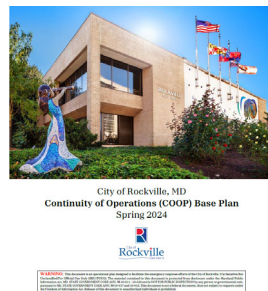
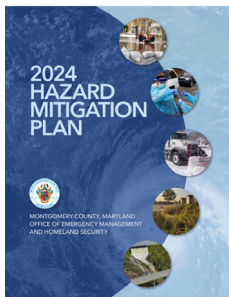


Resiliency: Municipal



Vulnerability Assessments and Planning (M-11)

- Adopted Montgomery County's Hazard Mitigation Plan (HMP) for FEMA compliance
- Updated Rockville's Continuity of Operations Plan (COOP)



Flood Resiliency Master Plan (M-13)

- Awarded \$700,000 MDEM/FEMA grant
- Awarded contract to consultant and launched data collection for flood model

15

rockvillemd.gov/climate

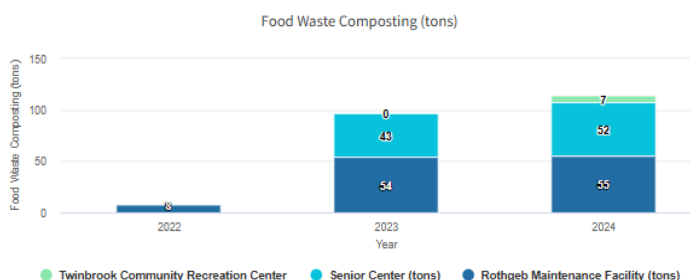


Materials and Waste



Residential Food Waste Composting (C-18)

- Opened third compost drop-off station at the Twinbrook Community Center in November 2024
- Collected 114 tons of food waste for composting



Recycling (C-19)

- Percent of waste recycled/diverted from landfill remained at 43%



16

rockvillemd.gov/climate

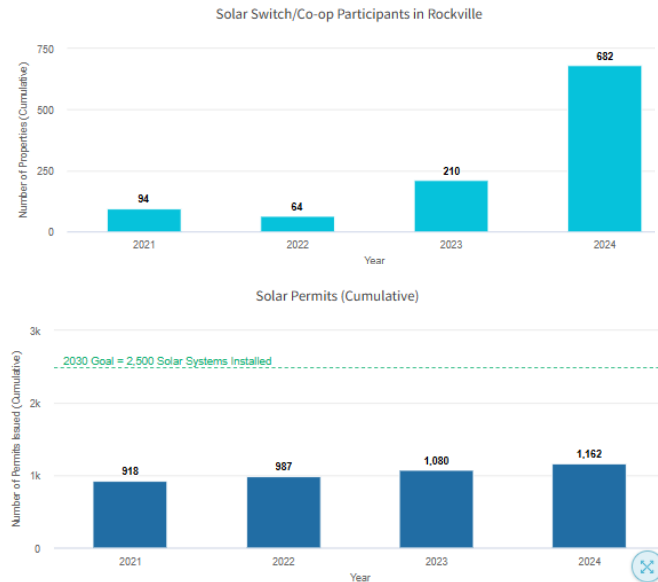


Renewable Energy: Community



Promote Solar Installations (C-09)

- Solar Switch (Solar Co-op) recruited 682 participants with Rockville addresses
- Promoted Montgomery County Green Bank's Access Solar Financing for income qualified homeowners.
- Provided Green Fee Waiver for solar in April 2024.
- Approximately 1,162 solar permits issued in Rockville (cumulative).
- Working to launch the SolarApp+ pilot by the end of FY 2025.



17

rockvillemd.gov/climate



Renewable Energy: Municipal



City Facilities M-09)

- US DOE approved grant project for solar rooftop on Lincoln Park Community Center
- MEA Awarded Solar Technical Assistance to evaluate City Hall, Swim & Fitness Center, Senior Center, Recreation Services, and F. Scott Fitzgerald Theatre
- Solar Canopies planned at 6 Taft Court*
- Solar Canopies and rooftop planned at Rothgeb Maintenance Facility*

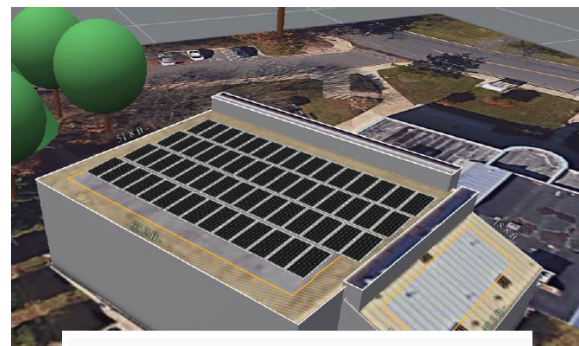


Illustration of proposed rooftop solar on gym roof of Lincoln Park Community Center

**delayed due to contracts and solar market uncertainty*

18

rockvillemd.gov/climate

Outside Funding/Partnerships



Completed in 2024

Pepco

- Public EV Chargers (16 ports at 5 stations)
- LED indoor lighting rebates (\$110,000+)

Maryland Energy Administration Energy Efficient LED Lighting

- Twinbrook Community Recreation Center (\$50,000);
- Senior Center (\$100,000);
- Rothgeb Maintenance Facility (\$100,000)
- EVSE Rebate for City Hall + Fleet (\$5,632)

Chesapeake Bay Trust

Tree and shrub planting in northern section of RedGate (\$199,930)

Ongoing and New FY25/FY26

Flood Resiliency Master Plan

- US Army Corps of Engineers (\$179,000 technical assistance)
- Maryland Department of Natural Resources (\$75,000)
- FEMA Flood Mitigation Assistance Grant (\$700,000)

Maryland Energy Administration

- Solar Canopy Grant – Taft Court (\$144,000); Rothgeb Maintenance Facility (\$250,000)
- Streetlight Efficiency – Phase 2 (\$124,600); Phase 3 (\$130,600)
- LED Lighting – Thomas Farm Community Center (\$63,000)

- EV charging stations for fleet (\$48,000)

- Senior Center Electric Buses – applied

- RHE coordination for LMI Solar, Energy Efficiency, EV Chargers

Department of Energy (DOE) Energy Efficiency Community Block Grant

- Approved Lincoln Park Community Center solar; electrified trailer (\$134,500)

Pepco

- Streetlight Rebate – Phase 2 and Phase 3

- LED indoor lighting rebates

Montgomery County

- RHE coordination for Healthy, Efficient, Electrified, Climate-Adapted Pilot Homes Grant

Maryland Department of Transportation

- 4 public charging stations, 4 bikeshare stations

Direct Pay (exploring tax credits)

Chesapeake Bay Trust – trees in southern section of RedGate (\$181,720)

Next Steps: Mayor and Council



FY26 Budget Appropriations

- \$300,000 Flood Mitigation Assistance, RainScapes, Water Quality Grants
- \$20,000 compost program
- \$30,000 facility energy audits
- \$2.2M stormwater management CIPs
- \$280,000 Green Space Management Plan
- \$30,000 increase for invasive species management

Projects

- EV charging station installations
- Electric Senior Center Bus
- LED Streetlight conversions
- Thomas Farm Community Center LEDs
- Solar rooftop procurement

Plans

- Modeling and stakeholder engagement for Flood Resiliency Master Plan
- Implementation of Vision Zero, Bikeway Master Plan and Pedestrian Master Plan
- Implementation of Electric Vehicle Readiness Plan

Policies and Code Amendments

- Chapter 5, Buildings and Building Regulations (green building regulations)
- Chapter 10, Floodplain Ordinance
- Chapter 21, Streets, Roads, Rights-of-Way, and Public Improvements
- Chapter 21.5, Forest and Tree Protection
- Chapter 25, Zoning Ordinance

Acknowledgements



Thank you to the many partners in this work including Rockville Mayor and Council, Rockville Environment Commission, government partners, City departments, Boards and Commissions and residents and businesses in Rockville for your continuing CAP support and dedication.

