

METROPOLITAN WASHINGTON CLIMATE ACTION

Planning and Implementation

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Metropolitan Washington Council of Governments (MWCOCG)

Air and Climate Public Advisory Committee (ACPAC)

May 15, 2023

Greenhouse Gas Reduction Goals

50% or more by 2030

- [Race to Zero](#)
- [Biden Administration](#)
- [Metropolitan Washington](#)
- City of Alexandria
- City of Bowie
- City of Manassas
- City of Rockville
- District of Columbia
- Fairfax County
- Frederick City and County
- Montgomery County - 80% by 2027

Carbon Neutral/100% by 2050 or earlier

- Race to Zero
- Biden Administration
- Arlington County
- City of Alexandria - 80-100%
- City of Rockville - by 2045/50
- District of Columbia
- Fairfax County
- Frederick City and County
- Montgomery County and Takoma Park - by 2035

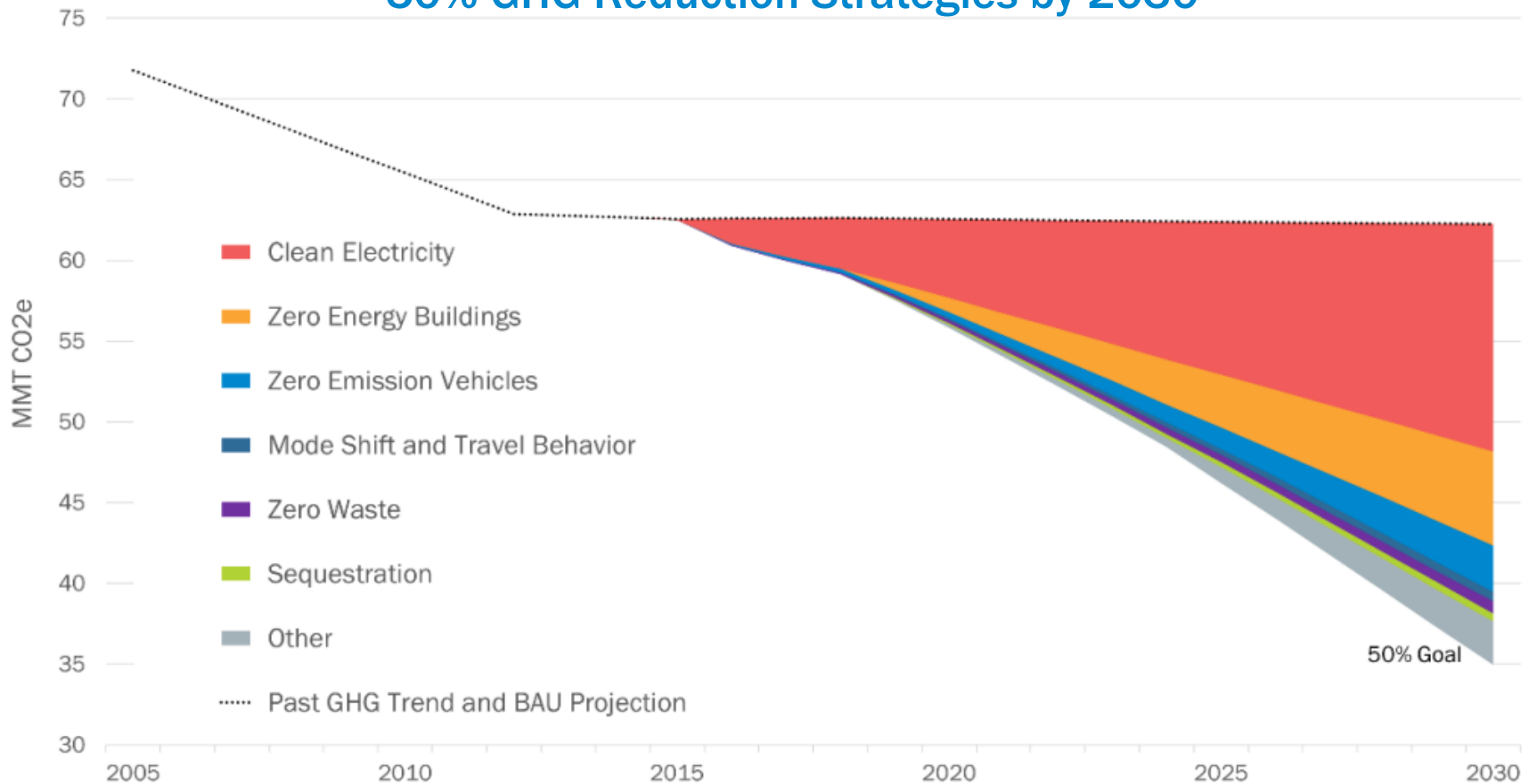
80% by 2050

- Metropolitan Washington
- City of Fairfax
- City of Falls Church
- City of Manassas
- Prince George's County



2030 Plan High Impact Action Areas

50% GHG Reduction Strategies by 2030



Climate Collaborative Guiding Principles

Principle	Description
1. Collective Action	We will continue to work together to leverage our impact and facilitate application at scale.
2. Effective Partnerships	We will continue to share best practices, learn together, and coordinate on implementation to advance regional transformation.
3. Lead by Example	We have a continued commitment to internal implementation of long-term solutions to reduce the climate impacts of our operations.
4. Integration	We understand climate action is inherently multidisciplinary and will promote cross-department coordination, including in areas such as equity, health, and economic development.
5. Flexibility	We understand the need for flexibility in how our public agencies and stakeholders across the DC, MD, and VA work to achieve regional GHG goals.
6. Transparency	We will continue to measure and report progress in a manner easily understandable by all.
7. Innovation	We support a just transition to a clean energy economy through the application of innovative technology, policies, and processes by public and private sectors.
8. Community Leadership	We will continue to educate, motivate, and empower action from our community's institutions, businesses, non-profits, and residents.
9. Inclusive Engagement	We commit to inclusive community engagement and equitable provision of climate and energy programs and services.
10. Advocacy	We will continue to support state and federal policies and programs that protect the human and environment health of our communities.

Coordinated Policy Guidance

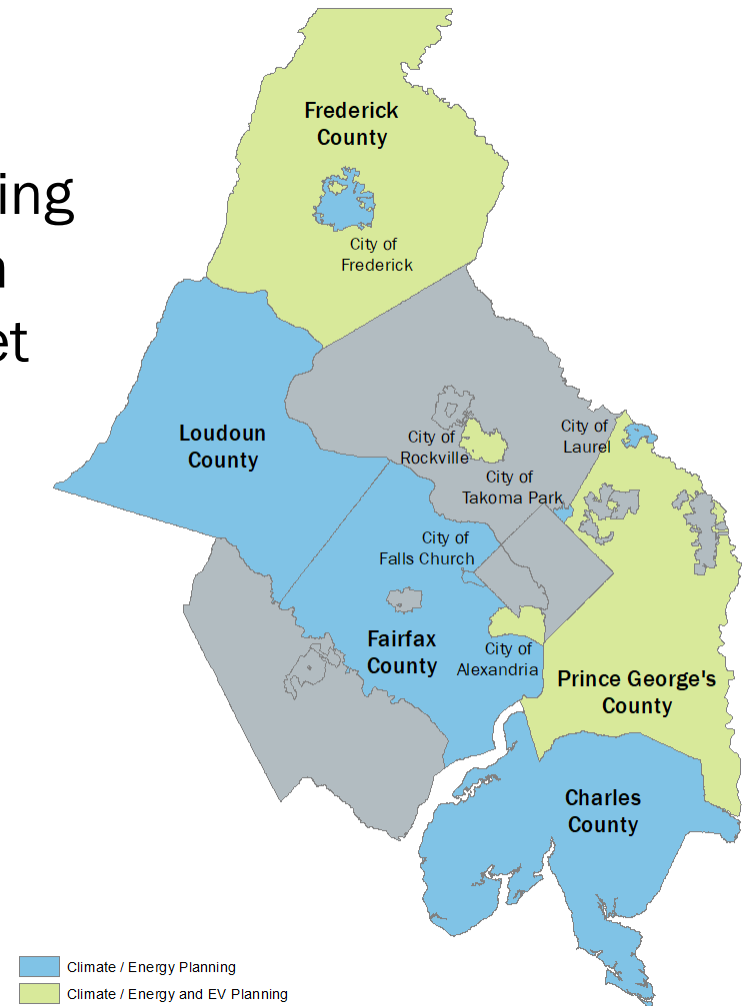
- 2005 Regional Green Building Policy
- 2012 Regional Green Streets Policy
- 2014 model local solar policies, permitting and inspection guidance
- 2021 Tree Canopy Cookbook
- 2023 EV Clearinghouse and EV-Ready Checklist



Climate Planning/Implementation Contracts

COG is helping its member governments accelerate action toward this regional goal by assisting on local climate and energy action plans and electric vehicle (EV) fleet policies and plans.

Contractor support contracts help members address (1) climate mitigation, energy, sustainability program, planning, and implementation support; and resiliency planning and implementation support.



Coordinated Implementation

- Clean Energy Feasibility Assessments
- Military Installation Resilience Review
- Mid-Atlantic PACE Alliance
- Local government energy efficiency fleet assessments
- Mid Atlantic Purchasing Team
- Energy Emergency Preparedness
- Technical Trainings and Capacity Building



Solar

MWCOG coordinated solar feasibility studies on > 170 public facilities and bulk solar procurement for public facilities.

MWCO coordinated the launch of a dozen solar co-ops across region, that have continued since that time.



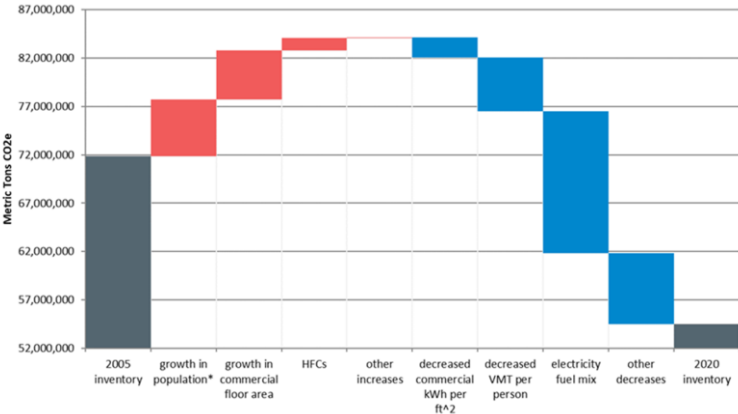
Clean Diesel

COG has partnered with > 12 equipment owners and leveraged the EPA Diesel Emission Reduction Act (DERA) program to repowering fleets to clean diesel, including 5 locomotive engines, 5 marine vessel projects, and non-road highway construction equipment operating across the region.

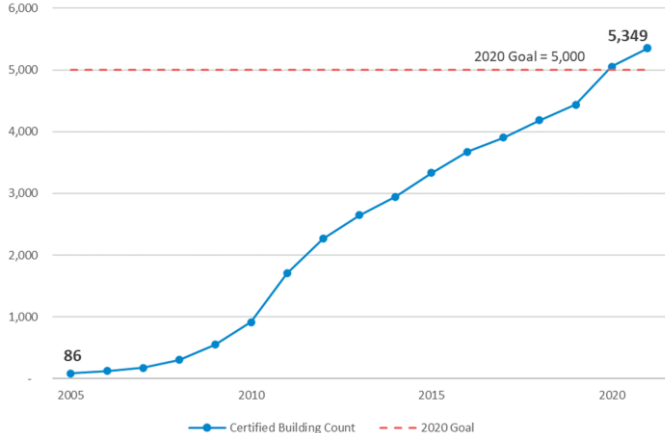


Data and Tools – Mitigation

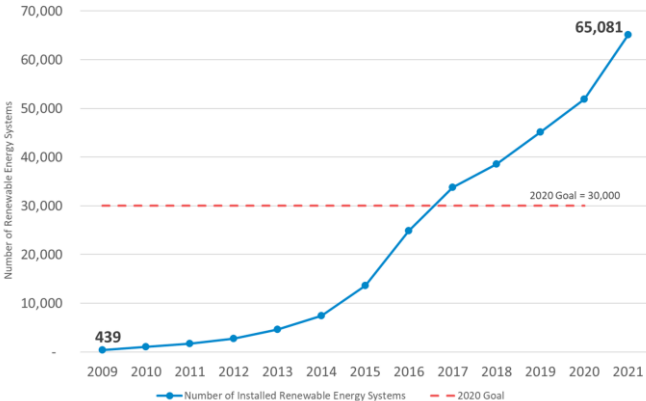
GHG Emissions Drivers



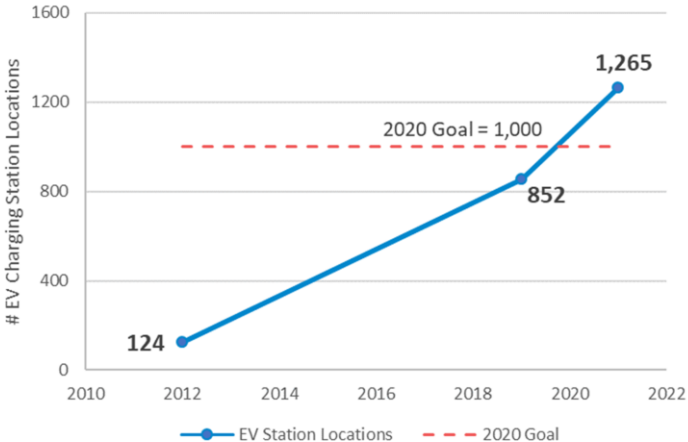
Green Building Trends



Renewable Energy Trends



EV Charging Station Trends



Data and Tools – Resilience

Climate Risk and Vulnerability Assessment

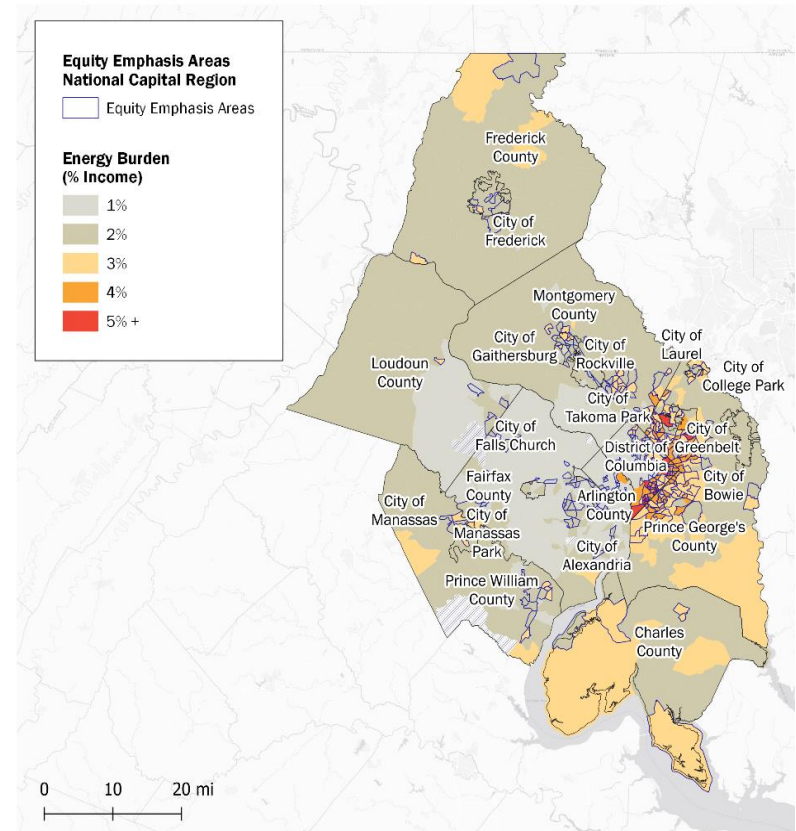
Hazard	Probability	Consequence	Risk
Extreme Heat	3	3	9
Drought	2	3	6
Flooding (Flash and Riverine)	3	3	9
Coastal Flooding	3	2	6
Lightning/Thunderstorm	3	2	6
Extreme Winter Conditions	2	3	6

Factor	Degree of Challenge
Infrastructure Conditions/Maintenance	High
Access to Basic Services	Moderate
Access to Healthcare	Moderate
Public Health	Moderate
Housing	Moderate
Poverty	Moderate
Community Engagement	Moderate
Environmental Conditions	Moderate
Economic Health	Low



Data and Tools – Equity

- Mapping to Evaluate Community Impact:
 - Climate impacts from flooding, sea level rise, heat
 - Energy burden
 - Equity Emphasis Areas
 - Health equity
- Environmental Justice Toolkit (2017), guidance for local governments



Source: US Department of Energy Low-Income Energy Affordability Data (LEAD) Tool & MWCOG Equity Emphasis Areas

Engagement – Climate Partners

DMV Climate Partners website and e-news provides weekly updates on climate news, events, funding opportunities, resources for residents and jobs.

DMV Climate Partners

About Us Climate 101 Climate Initiatives Resources English

CLIMATE PARTNERS

Global Change Starts at a Local Level

United in Climate Action – We are a group of partners committed to reducing greenhouse gas emissions and creating more resilient communities across the District of Columbia, suburban Maryland, and Northern Virginia, or DMV.

[Learn More](#)

Engagement – Climate Awards

COG Climate and Energy Leadership Awards recognize organizations that develop climate stewardship projects and programs that engage and serve the region's underserved communities.



Engagement – Auto Show

Metropolitan Washington Auto Show Public Policy Day
transportation electrification events with industry and policy
makers, EV ride and drive, and EV track



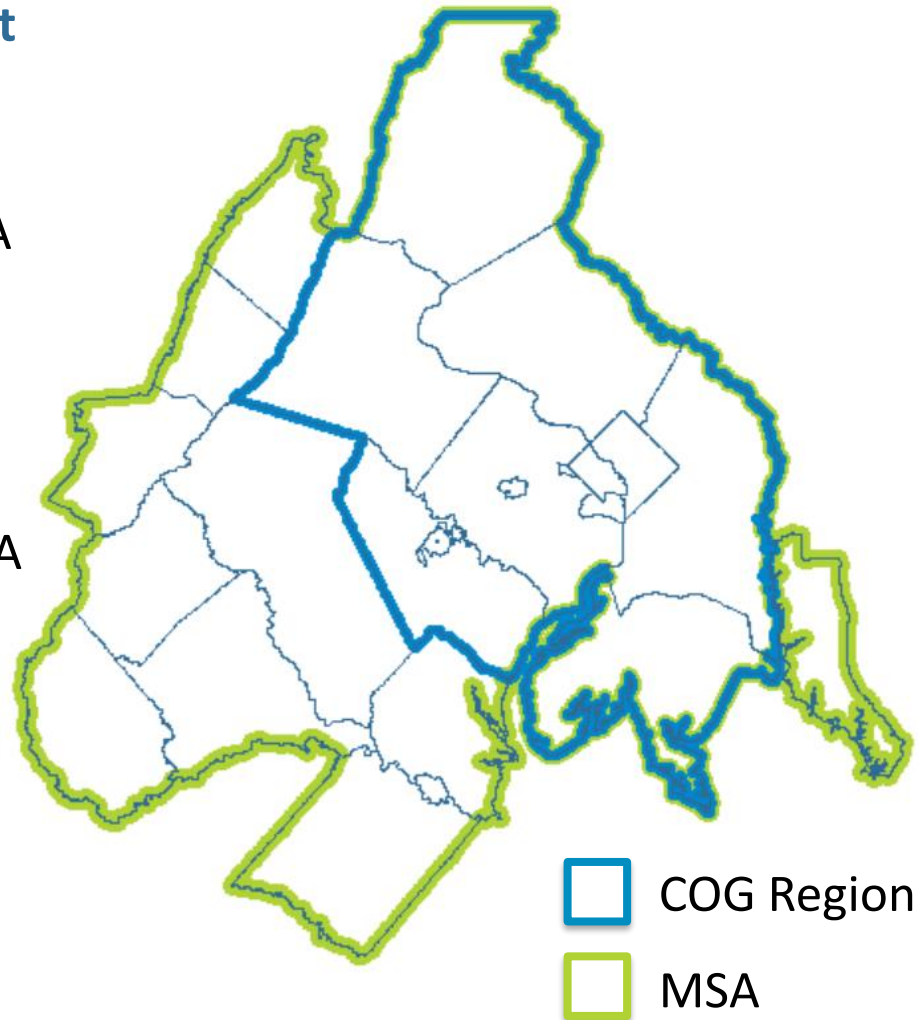
EPA Climate Pollution Reduction Grant

- The **Climate Pollution Reduction Grants (CPRG)** program will provide grants to states, regions, and local governments to develop and implement plans for reducing greenhouse gas emissions and other harmful air pollution.
- Section 60114 of the **Inflation Reduction Act** provides an investment of \$5 billion to support these efforts.
- This two-staged grant program provides funding of \$250 million for noncompetitive planning grants, and **\$4.6 billion for competitive implementation grants**.
- COG, via DOEE, is set to receive **\$1 million to do MSA climate planning**, which includes additional communities from VA and WV.
- MSA comprehensive climate action plan must have goals of 50-52% GHG emission reduction by 2030 and **net-zero emissions by 2050**.

COG Region and MSA

Jurisdictions in the MSA that are not COG Members:

- Calvert County, MD
- City of Fredericksburg, VA
- Clarke County, VA
- Culpeper County, VA
- Fauquier County, VA
- Madison County, VA
- Rappahannock County, VA
- Spotsylvania County, VA
- Stafford County, VA
- Warren County, VA
- State of West Virginia
- Jefferson County, WV



CPRG Elements

Priority Climate Action Plan (PCAP), due March 1, 2024;

- A simplified GHG inventory;
- Quantified GHG reduction measures;
- A low-income and disadvantaged communities benefits analysis; and
- A review of authority to implement;

Comprehensive Climate Action Plan (CCAP), due summer-fall 2025

- A comprehensive GHG inventory;
- GHG emissions projections (2030-2035 and 2050);
- GHG reduction targets setting;
- Quantified GHG reduction measures;
- A benefits analysis of co-pollutants;
- A low-income and disadvantaged communities benefits analysis;
- A review of authority to implement;
- A plan to leverage other federal funding; and,
- A workforce planning analysis.

CPRG Discussion Questions

- What stakeholder organizations/groups could we engage with in non-COG member counties? Any contacts are much appreciated!
- What equity/EJ advocate/organizations can we engage? Again, any contacts are much appreciated!
- How can we ensure 40% of the plan benefits go to disadvantaged communities?

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