

EPA CLIMATE POLLUTION REDUCTION GRANT (CPRG) PROGRAM UPDATE

TPB Technical Committee

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Item #6



Recap of PCAP Development Process

Summer- Fall 2023 – Initial stakeholder discussions and contracting

November 2023 – Steering and Technical Committee kickoff

November – December 2023

- Survey for project ideas
- Survey for community climate priorities
- Meetings with stakeholders, local governments, states
- Presentations to COG Committees
- Draft measures
- Stakeholder feedback on draft measures
- Stakeholder discussions

January 2024

- Final measures list
- PCAP drafting and modeling
- Continued stakeholder discussions
- LIDAC Survey
- Stakeholder discussions

Example Stakeholders Engaged

- Neighborhood Sun
- Sierra Club
- Common Grain Alliance
- LEAP
- Mobilize Frederick
- Virginia PACE
- Accokeek Foundation
- Southern Environmental Law Center
- Georgetown University
- George Mason University
- University of Maryland
- Maryland Clean Energy Center
- WMATA
- WSSC
- Pepco, Exelon, Dominion
- Washington Gas
- GWRCC Board
- COG Committees (TPB Tech, CEEPC, MWAQC, TPB, MWAQC-TAC, Chief Equity Officers Committee, BEEAC / REVI joint meeting, ACPAC, (FARM) Policy Committee)

PCAP Outline

1. Introduction
2. Metropolitan Washington's Climate Context
3. Metropolitan Washington's LIDACs
4. Priority GHG Reduction Measures
5. Next Steps

APPENDIX A. GHG Inventory, BAU, and GHG Reduction Measures Quantification
Technical Appendix

APPENDIX B. Metropolitan Washington Climate and Energy Plans and Targets

APPENDIX C. Identification of LIDACS in Metropolitan Washington

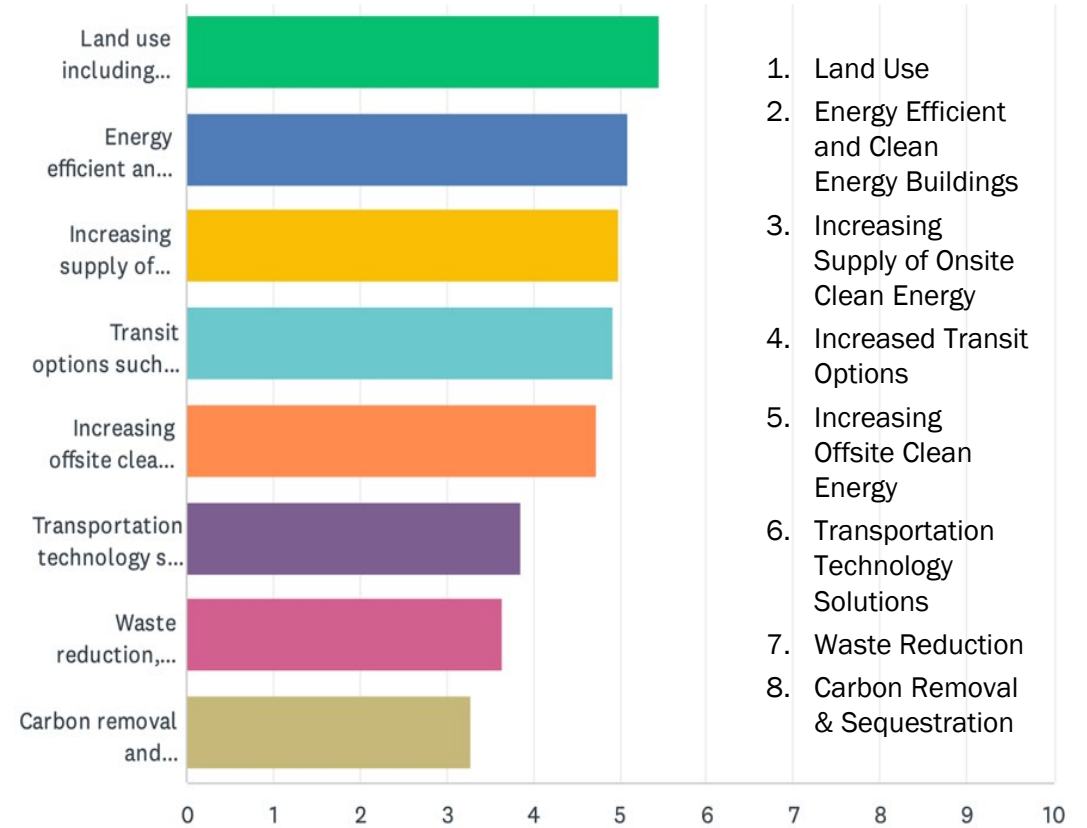
APPENDIX D. Project Ideas Submitted to COG

APPENDIX E. Community Climate Priorities Survey Results

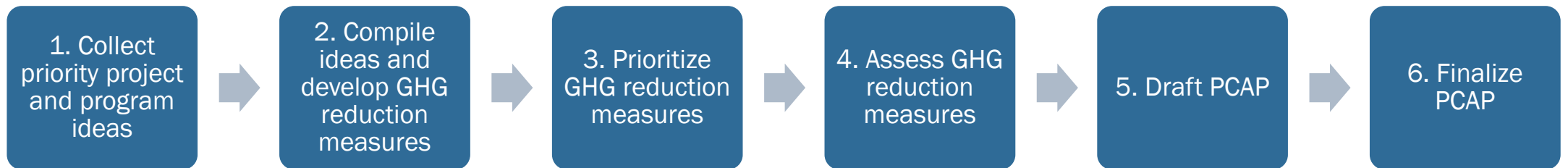
Introduction

- CPRG Program Overview
- PCAP Overview and Definitions
- Scope of the PCAP
- Approach to Developing the PCAP
 - GHG Inventory, BAU and GHG Reduction Targets
 - Identifying and Engaging Stakeholders
 - PCAP/Priority GHG Reduction Measures

CPRG Community Climate Priorities Survey

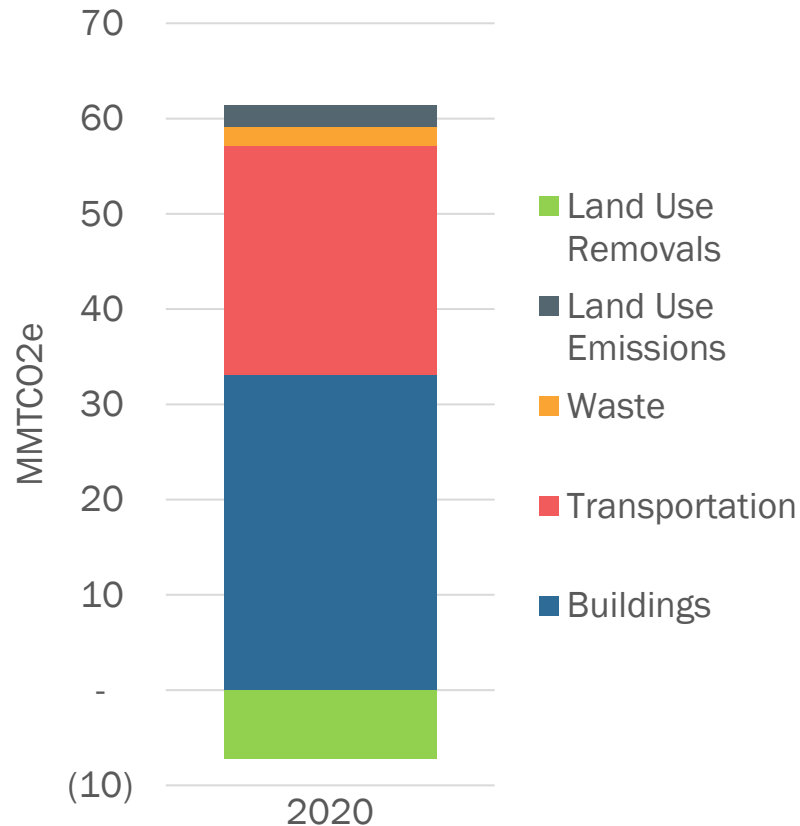


1. Land Use
2. Energy Efficient and Clean Energy Buildings
3. Increasing Supply of Onsite Clean Energy
4. Increased Transit Options
5. Increasing Offsite Clean Energy
6. Transportation Technology Solutions
7. Waste Reduction
8. Carbon Removal & Sequestration



GHG Inventory and Reduction Targets

2020 MSA GHG Emissions by Activity



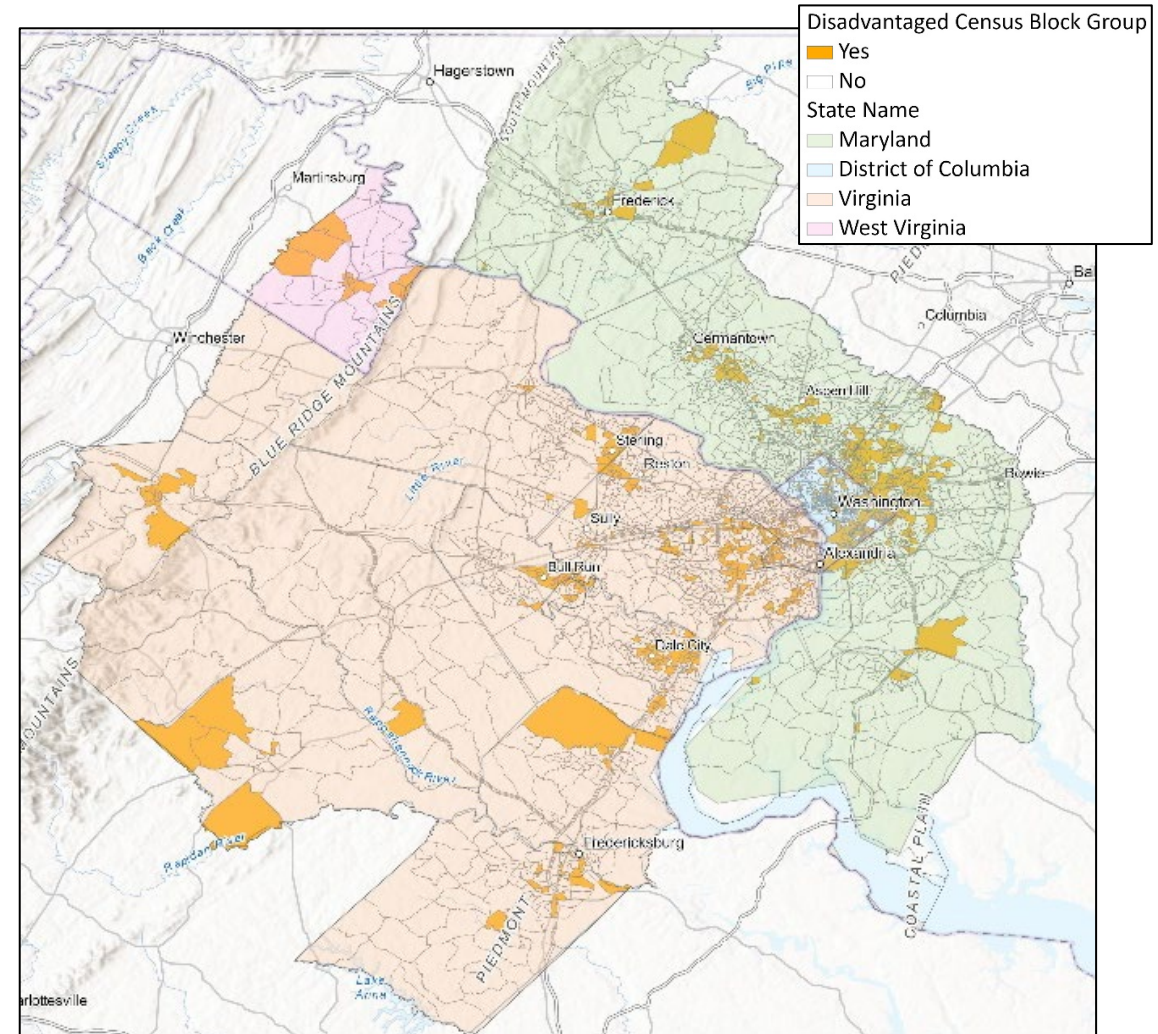
**PCAP Draft Appendix A. includes GHG Inventory, BAU, and GHG Reduction Measure Quantification*

GHG Reduction Targets

- 50 percent GHG emission reductions below 2005 levels by 2030
- Become a Climate Ready Region and making significant progress toward becoming a Climate Resilient Region by 2030
- Along with the COG goals, local governments across and states have established goals
- During the CCAP development COG will work with members within and outside of the region to establish MSA-wide GHG reduction target(s)

Metropolitan Washington LIDACs

- LIDACs identified in EJScreen
 - 25% of Census block groups in the MSA
- Education levels
 - MSA - 4% without a high school diploma
 - LIDACs - 8%
- Economic diversity
 - MSA - Simple average median income ~\$125,000
 - LIDACs - ~\$85,000 (VA increases to ~\$98,000)
- Unemployment rates
 - DC has the highest rate in the MSA
 - DC - 5% and DC LIDACs - 10%



Engagement with Metropolitan Washington LIDACs

Community LIDAC Priorities

- Air and water quality
- Greenspace availability
- Quality of life
- Community engagement and empowerment
- Creating employment opportunities and workforce development
- Access to infrastructure
- Food security
- Non-care travel options
- Reducing waste
- Affordable housing near transit
- Energy efficiency
- Inclusive energy transition

Ongoing Activities

- LIDAC engagement survey
- LIDAC and community engagement plan
- Tribal engagement plan

Example LIDAC Webinar/Meeting Participants

- Accokeek Foundation
- Common Grain Alliance (CGA)
- Faith Alliance for Climate Solutions (FACS)
- Greater Washington Region Clean Cities Coalition (GWRCCC)
- Hola Cultura
- Institute for Local Self-Reliance (ILSR)
- Montgomery County Food Council
- Prince George's County Food Equity Council
- Prince George's Soil Conservation District
- Sierra Club, Virginia Chapter
- Southern Environmental Law Center
- University of Maryland (UMD)
- Voters for Animals



PCAP Measure Development Review

Measure Framework

- Priority measures need to be determined for inclusion in the PCAP
- Must reduce GHG emissions in short-term, 2-5 years
- Long-term reduction measures only required for 2nd phase (CCAP)
- Integrate GHG reduction strategies already identified as priorities
- Cost-effectiveness / Demonstrate federal funding gaps if available
- Conduct LIDAC benefits analysis
- Focus on measures with authority to implement*
- Project framework is generally versatile

**Process can include initial necessary planning, studies, assessments, software, etc.*

COG's PCAP Measures List

Buildings and Clean Energy

- Accelerate the deployment of energy efficiency solutions and decarbonization of residential, institutional, municipal, and commercial buildings.
- Accelerate the deployment of clean and renewable energy.
- Study, plan for, and deploy district energy and microgrid opportunities.

Transportation

- Provide and promote new and expanded opportunities to reduce VMT through public transportation, non-motorized travel, micromobility, shared travel options, and development.
- Accelerate the deployment of low-emission transportation, fuels, and vehicles.
- Accelerate the deployment of off-road/non-road electric equipment.

Waste

- Reduce GHG emissions from waste and wastewater treatment.

Land Use

- Accelerate the expansion of the regional tree canopy and reduce tree canopy loss.

Continued: PCAP Cross-Cutting Themes

- Provide education, marketing and outreach, and real-time data to accelerate the deployment of GHG reduction technologies, facilitate behavior changes, and to increase participation in climate and energy programs.
- Build on existing or develop new programs to provide training, paid internships, and job opportunities for a clean energy workforce.
- Deploy shared resources and funding through a centralized program for implementation ready projects such as for Institutional Buildings (e.g., municipal buildings, universities, schools, and hospitals) or to accelerate climate action for a set list of climate actions and technologies that benefit multiple jurisdictions.
- Actions supporting clean energy financing, and incentives to increase clean energy, energy efficiency, and electrification, such as Green Banks, green financing, interest rate buy downs, and revolving loan fund (e.g., green bonds, clean energy loans), ESPCS, as well as grants and rebates.

Example LIDAC Benefits

Buildings and Clean Energy

- Reduced energy costs/burden from energy efficiency measures and from the installation of solar PV panels.
- Improvements in indoor air quality and local air quality from reduced fossil energy use in power plants and in buildings.
- Improved health/reduced health care costs.

Transportation

- Reductions in air pollution resulting from combustion in vehicles, reduced exposure to diesel particulate emissions, ozone, and noise.
- Improved health/reduced health care costs.
- Reduced noise pollution from highway adjacent communities.

Land Use

- Reduce heat island impacts.
- Increased quality of life/additional access to recreation.

Implementation Funding & Expected Awards Review

For general competition

- EPA anticipates awarding 30 to 115 grants ranging between \$2 million and \$500 million.
- Grants expected to be awarded within 5 tiers, with funds targeted for each tier.
- Total amount requested will determine tier application evaluated at.

Tier	Grant Ranges	Funds Targeted for Each Tier	Anticipated Number of Grants to be Awarded
Tier A	\$200,000,000 – \$500,000,000	\$2 billion	4-10
Tier B	\$100,000,000 – \$199,999,999	\$1.3 billion	6-13
Tier C	\$50,000,000 – \$99,999,999	\$0.6 billion	6-12
Tier D	\$10,000,000 – \$49,999,999	\$0.3 billion	6-30
Tier E	\$2,000,000 – \$9,999,999	\$0.1 billion	10-50

CPRG Implementation Proposals

Applications Submitted April 1, 2024

- COG Individual Applicant (COG Region only) – Residential Energy Efficiency, Solarize, and EV purchases for govt fleets
- COG Coalition (COG NoVa, Richmond, Hampton Roads – Commercial Building Efficiency)
- Other CPRG Applications
 - Virginia – Natural Working Lands
 - Virginia – Solar with Storage for Municipal Buildings
 - Richmond – Fall Line Trail
 - Maryland – Building Performance Standards (BEPs)

Timeline & Next Steps

Schedule

- Spring/Summer/Fall 2024 – Begin work Comprehensive Climate Action Plan (CCAP); Additional Engagement
- Summer 2025 – CCAP Due

Plans for CCAP Engagement

Stakeholder Engagement 2024-2025

- Kick off for CCAP in Spring
- Virtual and in-person listening sessions
- Continue engagement with local utilities, agencies, community-based organizations, tribal communities, climate and energy non-governmental organizations, educational institutions, etc.
- Plan to hear more diverse and comprehensive perspectives across the region
- Connect shared interests and projects

PCAP Links

COG PCAP

<https://www.mwcog.org/documents/2024/03/01/priority-climate-action-plan/>

EPA PCAP Compilations

<https://www.epa.gov/inflation-reduction-act/priority-climate-action-plans-states-msas-tribes-and-territories> PCAP Draft and Measures

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