CLIMATE PLANNING MID-COURSE REVIEW

Assessing Progress Toward Regional 2030 Climate Goals

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Climate, Energy, and Air Program

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Background and Purpose

- **COG Goals**
  - Existing 2030 goal; Metropolitan Washington 2030 Climate and Energy Action Plan (2030 CEAP); Comprehensive Climate Action Plan (CCAP) development

- **ACPAC Memo on Goals**

- **CEEPC Considerations and Response**
  - Conduct Mid-Course Review to assess progress toward meeting COG 2030 Climate and Energy Goals
  - Use findings to help inform any possible considerations of establishing new goals and to assist with CCAP

- **Approach**
  - Presenting today recommendations for how to conduct the review based off input from COG staff, CEEPC, and ACPAC
  - Seek the BEEAC's input on details of the approach

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Proposed Approach

Final Products:

- Regional Climate and Energy Progress Interactive Dashboard

- Mid-Course Review Report

Approach:

- Follow the 2030 Regional Climate and Energy Action Plan adopted in 2020

- Cross-check and align with Priority Climate Action Plan (PCAP) submitted to EPA in 2024

- Analyze 1-3 Performance Indicators for each Priority Climate Action Area

- Local jurisdiction questionnaire on Priority Collaborative Actions

- Review of local goals and actions to get the region to 2030 goals

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ACTIONS TO REVIEW

- **Climate Action Area** = priority areas to identify performance indicators

- **Priority Collaborative Actions** could translate to local government questionnaire

- **BEEAC Input** – What are the priority areas for the Mid-Course Review?

2030 Plan Climate Mitigation Strategy

Climate Action Area	Action ID	Priority Collaborative Action
Planning	PL - 1	Advance Climate Planning and Track Progress
Equity	EQ - 1	Enable Equitable Planning Practices
	EQ - 2	Prioritize Sustainable Energy Access for All
Clean Electricity	CE - 1	Advocate for Aggressive Renewable Portfolio Standards
	CE - 2	Accelerate Development of On-Site Renewables
	CE - 3	Accelerate Deployment of Battery Storage
	CE - 4	Accelerate Development of Microgrids for Critical Infrastructure
	CE - 5	Accelerate Development of Large-Scale Off-Site Renewables
	CE - 6	Advocate for and Implement Community Choice Aggregation
Zero Energy Buildings	ZEB - 1	Expand Building Benchmarking Requirements
	ZEB - 2	Accelerate Deep Building Retrofits
	ZEB - 3	Enhance Green Building Codes and Policies to Facilitate Net Zero Energy Building Development
	ZEB - 4	Expand Proper Disposal and Leak Detection of Refrigerants
Zero Emission Vehicles	ZEV - 1	Expand Light-Duty Electric Vehicle Deployment
	ZEV - 2	Accelerate Electrification of Medium- and Heavy-Duty Vehicles
	ZEV - 3	Build Out Regional Electric Vehicle Charging Network
Mode Shift and Travel Behavior	MSTB - 1	Invest in Infrastructure that Increases Transit, Carpooling, and Non-Motorized Travel
	MSTB - 2	Bring Jobs and Housing Closer Together
	MSTB - 3	Enhance Options for Commuters
Zero Waste	ZW - 1	Implement Curbside Organics Recycling Programs
	ZW - 2	Reduce Solid Waste Generation
	ZW - 3	Build Markets for Circularity
Sequestration	SQ - 1	Strategically Plant New Trees on Publicly Owned Land
	SQ - 2	Enhance Regulatory Capacity to Manage Tree Canopy and Forest Protection
	SQ - 3	Enhance Incentives and Financing Mechanisms for Tree Planting and Preservation on Privately Owned Lands

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DRAFT Potential Performance Indicators

CLIMATE ACTION AREA	PERFORMANCE INDICATORS	DATA AVAILABILITY
Greenhouse Gases	• Greenhouse Gas (GHG) Emissions • Contribution Analysis (drivers of GHG change)	• 2005 - 2023 • 2005 - 2023
Clean Electricity	• Carbon Intensity of the Grid • Grid Connected Renewables	• 2005 - 2023 • 2009 - 2024
Zero Energy Buildings	• Building Energy Consumption • Green Buildings	• 2005, 2009 - 2024 • 2005 - 2024
Zero Emissions Vehicles	• Electric Vehicle (EV) Ownership • EV Charging Stations and Ports	• 2005 - 2023 • 2012 - 2024
Mode Shift and Travel Behavior	• Vehicle Miles Travelled • Transit Ridership • Telework	• 2005 - 2023 • 2012 - 2021 • 2005 - 2022
Zero Waste	• Recycling Rate	• 2005 - 2022
Sequestration	• Tree Canopy Coverage	• 2015 - 2022

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COG Draft Interactive Dashboard Example

Choose Jurisdiction(s) (Click to Select or Deselect)

|			
Select All	Regional Total	District of Columbia	Charles County
Frederick County	Frederick City	Montgomery County	Prince George's County
City of Bowie	City of Alexandria	Arlington County	Fairfax County
City of Fairfax	City of Falls Church	Loudoun County	Prince William County

Choose a Performance Indicator (Click to Select or Deselect)

Greenhouse Gas	Renewables	Green Buildings	Energy Consumption	Electric Vehicles	EV Chargers	Recycling Rate

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COG Draft Interactive Dashboard Example (continued)

If the user's dashboard selections were the District of Columbia + the Counties and Energy Consumption, residential and commercial natural gas trends for counties would be an example of resulting graphs
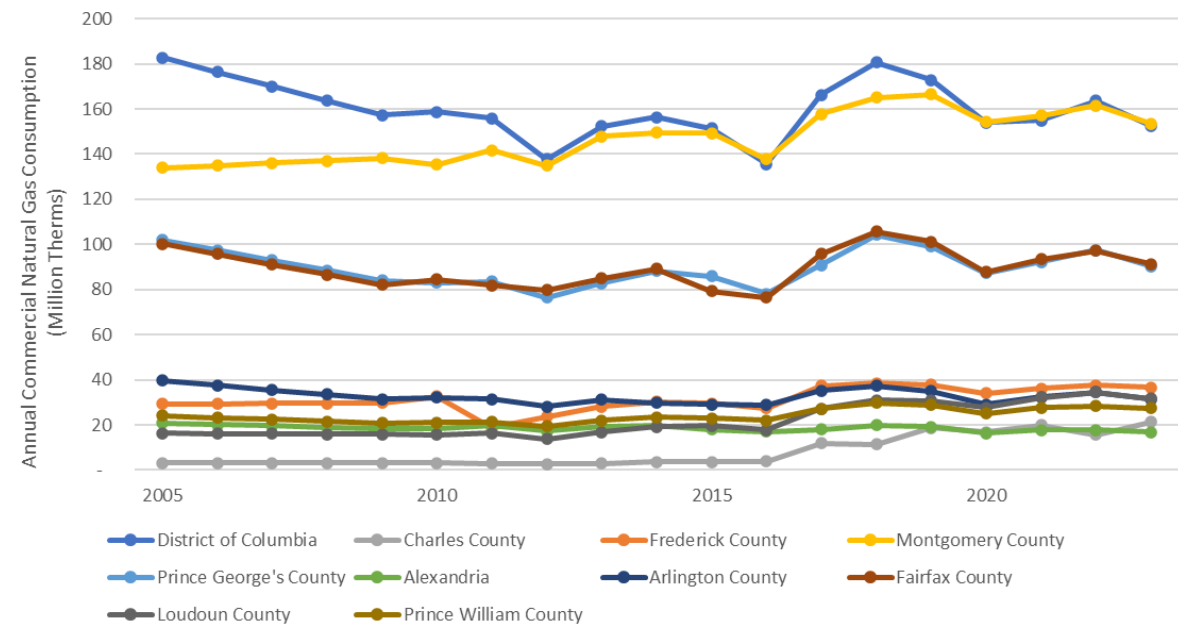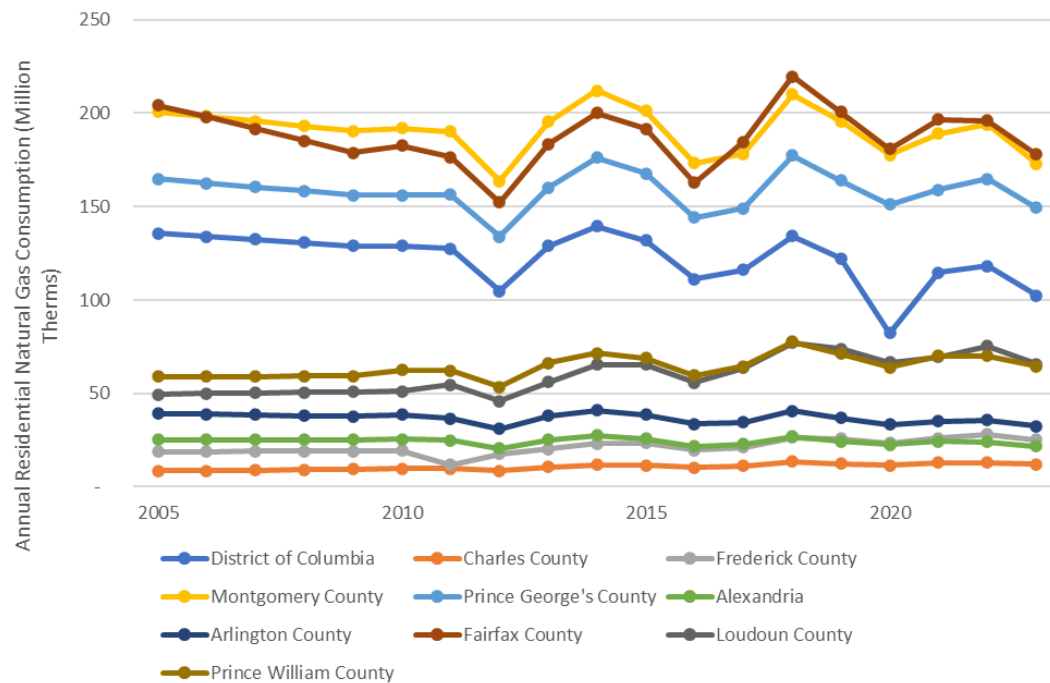
Example Data Questions

Clean Electricity

1. What percentage of local government operations energy consumption comes from renewables (including onsite + off-site, such as PPAs)? ___

2. How many renewable energy systems are installed and operational at local government facilities? ___

3. How many battery storage systems are:

   a) Paired with your renewable energy systems at government facilities? ___

   b) Permitted in your community? ___

4. How many district energy/microgrid systems are operating at local government facilities and critical infrastructure? ___

Example Data Questions (continued)

Zero Energy Buildings

5. How many government facilities are net zero energy (including new construction and existing retrofitted buildings)? ___

6. How many deep energy retrofits have been completed at local government facilities? ___

Zero Energy Vehicles

7. How many light-duty EVs are currently in your local government fleet? ___

8. How many medium- and heavy-duty EVs are currently in your local government fleet? ___

9. How many EV charging ports are currently operating at local government facilities? ___

   a) Number of private fleet ports: ___
   b) Number of publicly available ports: ___

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Example Multiple Choice Questions

Clean Electricity

10. Established residential or commercial new construction ordinances or incentives for solar? Select all that apply.

    a) Ordinance requiring solar for new construction

    b) Ordinance for solar-ready new construction (to enable solar installation at a later date)

    c) Incentives for solar on new construction

    d) Incentives for solar-ready new construction (to enable solar installation at a later date)

    e) Other: _____

Zero Energy Buildings

11. Does your jurisdiction have an energy benchmarking program? Select all that apply.

    a) Energy benchmarking and reporting are conducted for local government facilities

    b) Energy benchmarking and reporting are required for commercial buildings

    c) Energy benchmarking and reporting are encouraged/incentivized for commercial buildings

    d) Energy benchmarking program is under development

    e) Not Applicable

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Example Multiple Choice Questions (continued)

Zero Emission Vehicles

12. Is your jurisdiction taking steps to accelerate electric vehicles (EV) and EV charger deployment in government operations? Select all that apply.

   a) Adopt a green fleet policy

   b) Adopt an EV plan for public fleet(s)

   c) Develop EV infrastructure strategy for EV infrastructure deployment at public facilities, garages, and refueling facilities

   d) Implement innovative pilot initiatives to advance new technologies, including vehicle-to-grid, regenerative power, or solar-powered EV infrastructure.

   e) Other: _____

Sequestration

13. Does your jurisdiction implement initiatives for tree planting on private property? Select all that apply?

   a) Established a local tree planting and preservation incentives or funding mechanisms

   b) Established a tree mitigation banks or funds

   c) Established an adopt-a-tree and memorial tree program(s)

   d) Targeted tree planting on private land to reduce heat island in disadvantaged communities

   e) Other: _____

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Midcourse Review Report – Sample Layouts

ZERO WASTE

Progress Towards 2030

By 2030, curbside compositing will need to be expanded significantly to support the region in diverting 80 – 90% of all materials (including composting and recycling) from landfills and waste to energy (WTE) facilities. [Insert additional text]

PERFORMANCE INDICATOR

Recycling Rate

Zero Waste is a visionary goal that calls for society to use fewer resources as well as increase resource recovery, recycling, and composting. Zero waste strategies reduce emissions, saves energy, and extends landfill capacity. The regional recycling rate, one indicator to track progress towards zero waste, has increased from approximately 33% in 2005 to x% in 2022. Expanding regional composting capacity and organics collection will be important to increasing the regional recycling rate. [Insert graph]

SUPPORTING LOCAL POLICIES AND PROGRAMS

[Insert text and graphs summarizing local government policy and program results from the questionnaire.]

COG Member Example 1

[Insert text, insert text.

Insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text.]

Mt. Vernon Trail (Kevin Harber/Flickr)

COG Member Example 2

[Insert text, insert text.]

U and 14th (Mike Maguire/Flickr)

Callouts are a great way to bring important information to a readers' attention. To add, draw a text box (no fill, no outline), add text, then apply the "Callout Text-COG" style to the text. Or, simply copy/paste this ready-made callout for use throughout your document.

GREENHOUSE GASES

Progress Towards 2030

In 2020, the COG Board approved a new 2030 regional GHG emissions reduction goal of 50% below 2005 levels by 2030. The region surpassed its 2012 goal to reduce GHG emissions 10% below projected 2012 levels (i.e. bring emissions back down to 2005 levels). The region also surpassed its 2020 GHG emission reduction goal of 20% below 2005 levels. Expedited and concerted cross-sectoral actions will be needed throughout the region to achieve the 50% by 2030 goal.

PERFORMANCE INDICATORS
Greenhouse Gas Emissions

Inventories measure GHG-emitting activities undertaken by residents, businesses, industry, and government located in metropolitan Washington, as well as emissions from visitors. Approximately 90% of metropolitan Washington's GHG emissions come from building energy consumption and transportation. The remainder of emissions comes from other activities and sources including waste, land use (agriculture, forests and trees), and fugitive emissions. Metropolitan Washington community-wide GHG emissions decreased by xx% between 2005 and 2023, despite a 23% growth in population. Forests and trees offset more than x million metric tons of CO_2 equivalent. [insert updated GHG stats and graph, when available]

Note: Other refers to emissions associated with the release of Hydrofluorocarbons, emissions resulting from local natural gas system losses within the community, as well as emissions from Agriculture.

Contribution Analysis

The metropolitan Washington GHG Contribution Analysis results show what has driven increases (red bars) and decreases (blue bars) in emissions between inventory years 2005 and 2020. The graph shows the main drivers increasing emissions (red bars) are growth in population, commercial space, and hydrofluorocarbons (HFCs). Driving down emissions (blue bars) are mainly a cleaner grid, reduced vehicle miles traveled (VMT) per person, and decreased commercial electricity energy intensity. [insert updated Contribution Analysis summary and graph that includes data centers]

Note: * Includes effects of population on residential energy, VMT, and waste generation.

SUPPORTING LOCAL POLICIES AND PROGRAMS

Developing and implementing equity-focused climate plans and tracking progress through GHG inventories lays the foundation for reducing GHG emissions 50% below 2005 levels by 2030. [Insert text and graphs summarizing local government policy and program results from the questionnaire.]

COG Member Example 1

[Insert text, insert text.

Insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text, insert text.]

Mt. Vernon Trail (Kevin Harber/Flickr)

DRAFT Timeline

Task	2025 Midcourse Review Activities
Q1	• CEEPC, BEEAC, and ACPAC input on local government questionnaire and performance indicators • Finalize and send out local government questionnaire • Performance indicator data collection
Q2	• Collect and analyze local government questionnaire results • Develop example local BMPs to highlight in report • Continue performance indicator data collection and analysis
Q3	• Continue performance indicator data collection and analysis • Local government goals and actions review • Presentation to CEEPC, BEEAC, and ACPAC on questionnaire and performance indicator results
Q4	• Presentation to CEEPC, BEEAC and ACPAC on draft Midcourse Review Report

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The following slides contain a more complete list of questionnaire topics by action area, dashboard examples, and resources.

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Supporting Local Action Questionnaire Topics

Greenhouse Gas

- **Plan to reduce GHG emissions** at government facilities?...community-wide?
- **Track GHG emissions** for government operations?...community wide?
- **Equitable planning practices** during development and implementation of climate plans?

Clean Electricity

- **Accelerate the development of renewables** at government facilities?...in the community?
- **Accelerate the deployment of battery storage** at government facilities?...in the community?
- **Accelerate development of microgrids** at government facilities?...in the community?
- **Power Purchase Agreements (PPAs)** for government facilities?
- **Accelerate development of large-scale off-site renewables**?
- **Community choice aggregation** (CCA) program?
- Earned a **SolSmart designation**?
- Earned **EPA Green Power Partner or Community**?

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Supporting Local Action Questionnaire Topics (continued)

Zero Energy Buildings

- **Energy benchmarking** for government facilities?...in the community?
- **Deep building retrofits** at government facilities?...in the community?
- **Net zero energy building codes and policies** for government facilities?...in the community?

Zero Emission Vehicles

- **Expand light-duty EV deployment** in the government fleet?...in the community?
- **Expand medium- and heavy-duty EV deployment** in the government fleet?...in the community?
- **Deploy EV charging stations** at government facilities?...to facilitate deployment in the community?
- Working toward the [Charging Smart](#) designation?

Mode Shift and Travel Behavior

- Invest in infrastructure that increases **transit, carpooling, and non-motorized travel**?
- Bring **jobs and housing** closer together?
- Enhance **options for commuters**?
- Earned the [Bike Friendly](#) Community designation?

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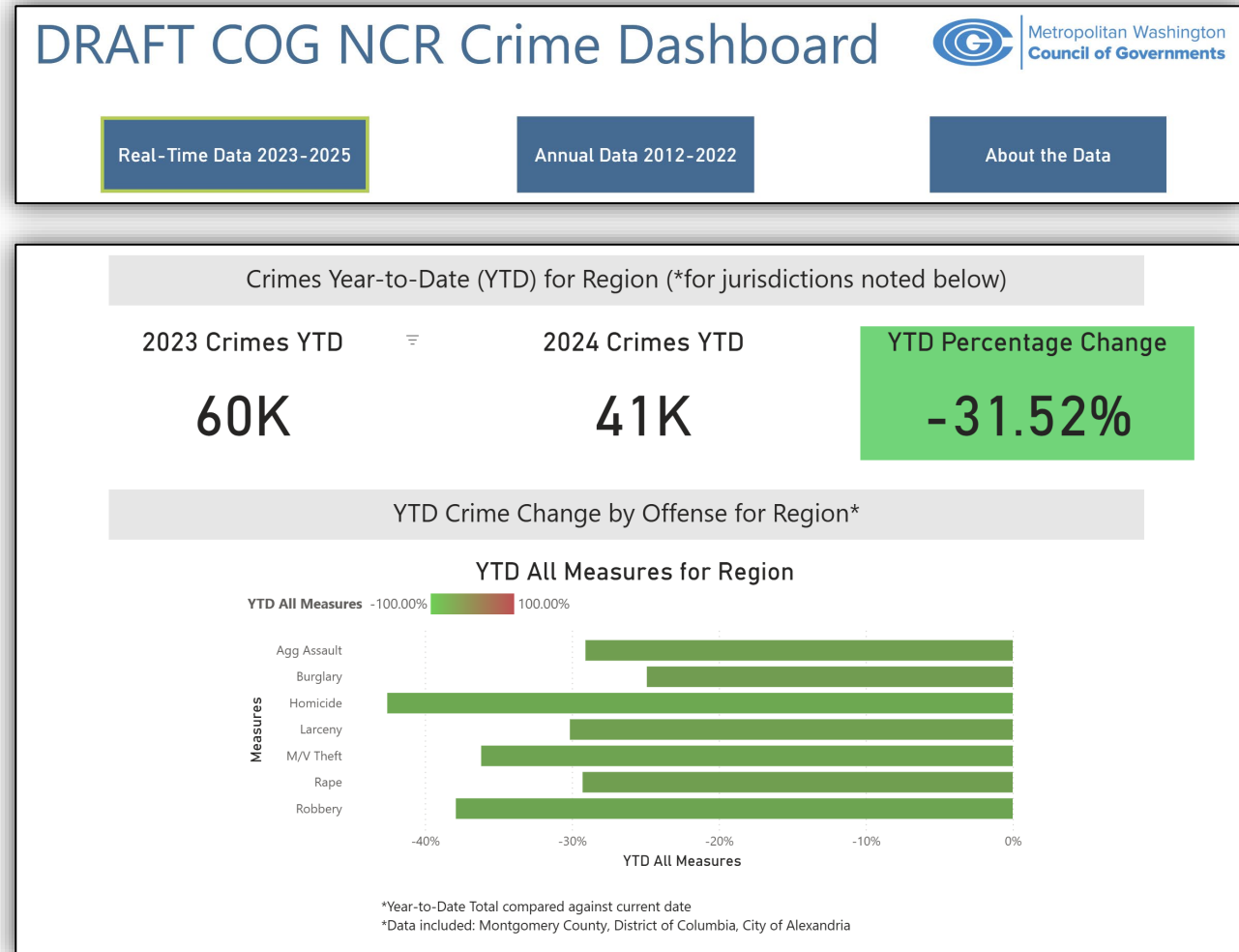# Supporting Local Action Questionnaire Topics (continued)

Zero Waste

- Implement a **curbside organics recycling program**?
- **Reduce solid waste generation** at government facilities?...in the community?
- Invest in composting infrastructure or waste collection systems infrastructure to enhance recycling?
- Local **single-use plastic and polystyrene bans**?
- Support **building a market for circularity**?
- Working toward a **zero waste goal** or [Zero Waste Community](#) Certification?

Sequestration

- Adopted **tree canopy/forest cover goal**?
- Strategically **plant new trees on publicly owned land**?
- **Enhance regulatory capacity to manage tree canopy and forest protection**?
- Offer or promote **incentives and financing mechanisms for tree planting and preservation on privately owned lands**?
- Designated a [Tree City USA](#)?

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COG Draft Interactive Dashboard Example

ANNUAL REPORT ON CRIME & CRIME CONTROL

Evaluating crime trends in metropolitan Washington in 2022 and the regional initiatives by law enforcement to combat crime

September 2023

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DRAFT COG NCR Crime Dashboard

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| Real-Time Data 2023-2025 | Annual Data 2012-2022 | About the Data |

Crimes Year-to-Date (YTD) for Region (*for jurisdictions noted below)

2023 Crimes YTD	2024 Crimes YTD	YTD Percentage Change
60K	41K	-31.52%

YTD Crime Change by Offense for Region*

YTD All Measures for Region

YTD All Measures -100.00% ▮▮ 100.00%

(Horizontal bar chart — Measures vs. YTD All Measures, axis -40% to 0%)

- Agg Assault
- Burglary
- Homicide
- Larceny
- M/V Theft
- Rape
- Robbery

*Year-to-Date Total compared against current date
*Data included: Montgomery County, District of Columbia, City of Alexandria

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COG Draft Interactive Dashboard Example

Metropolitan Washington **Council of Governments**
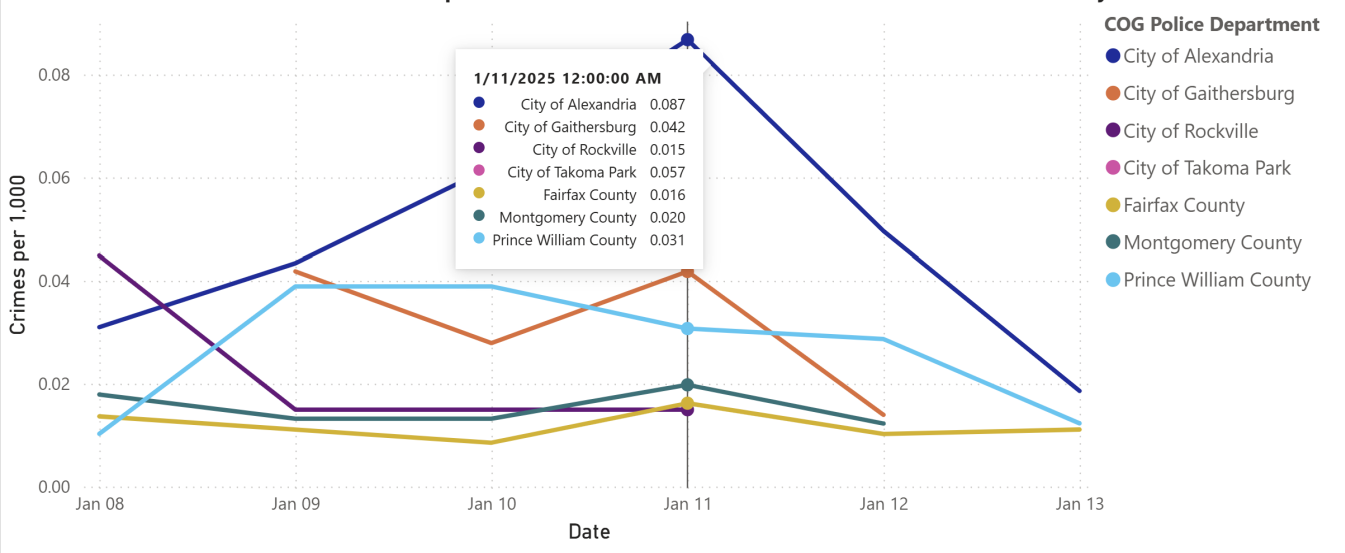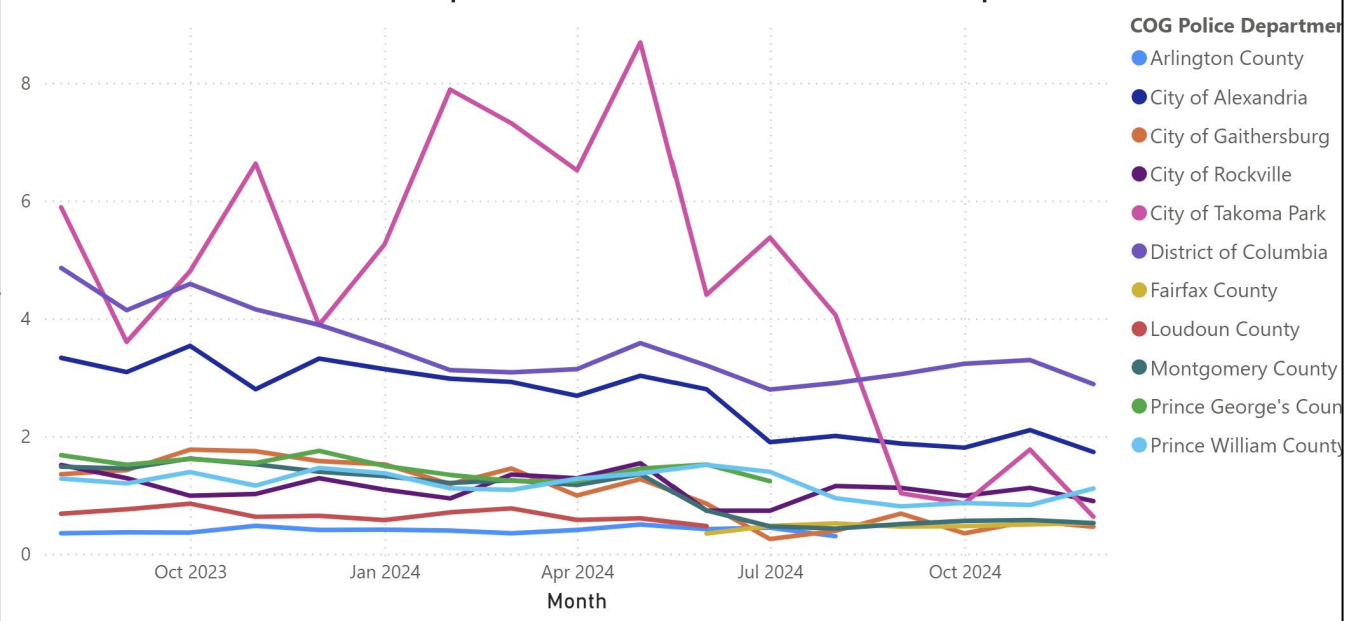
COG Draft Interactive Dashboard Example

M/V Theft Total Per Year

| COG Police Departments	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Arlington County	156	145	161	167	143	171	227	323	313	412
Charles County	187	148	194	167	181	160	151	187	187	198
City of Alexandria	277	253	254	268	178	202	233	359	268	315
City of Bowie	69	67	46	61	77	49	55	43	58	118
City of Fairfax	23	18	20	19	20	26	28	34	31	38
City of Falls Church	7	11	13	16	12	13	22	29	29	24
City of Frederick	61	38	52	48	43	51	53	70	54	38
City of Gaithersburg	73	56	67	71	52	69	72	87	98	103
City of Greenbelt	107	84	66	73	67	72	75	71	112	149
City of Hyattsville					78	60	61	68	90	129
City of Laurel					57	78	78	75	88	359
City of Manassas	61	30	34	47	48	41	44	52	63	75
City of Manassas Park	12	8	10	7	10	11	12	20	14	26
City of Rockville	61	55	34	49	53	62	39	68	78	95
City of Takoma Park	42	53	32	33	30	25	25	32	40	53
District of Columbia	2,653	3,141	2,827	2,700	2,425	2,407	2,228	3,275	3,515	3,761
Fairfax County	757	733	792	812	702	806	857	1,283	1,205	1,362
Frederick County	79	33	48	56	46	41	51	30	54	41
Loudoun County	100	107	128	136	142	153	151	149	140	163
Montgomery County	861	705	732	837	919	833	905	1,167	1,444	1,507
Prince George's County	3,601	3,553	2,856	2,822	2,575	2,331	2,070	2,375	2,754	3,513
Prince William County	300	285	307	325	396	454	341	423	509	571
Town of Bladensburg	72	82	62	48	71	52				
Total	**9,559**	**9,605**	**8,735**	**8,762**	**8,325**	**8,167**	**7,778**	**10,220**	**11,144**	**13,050**

M/V Theft per Jurisdiction per Year
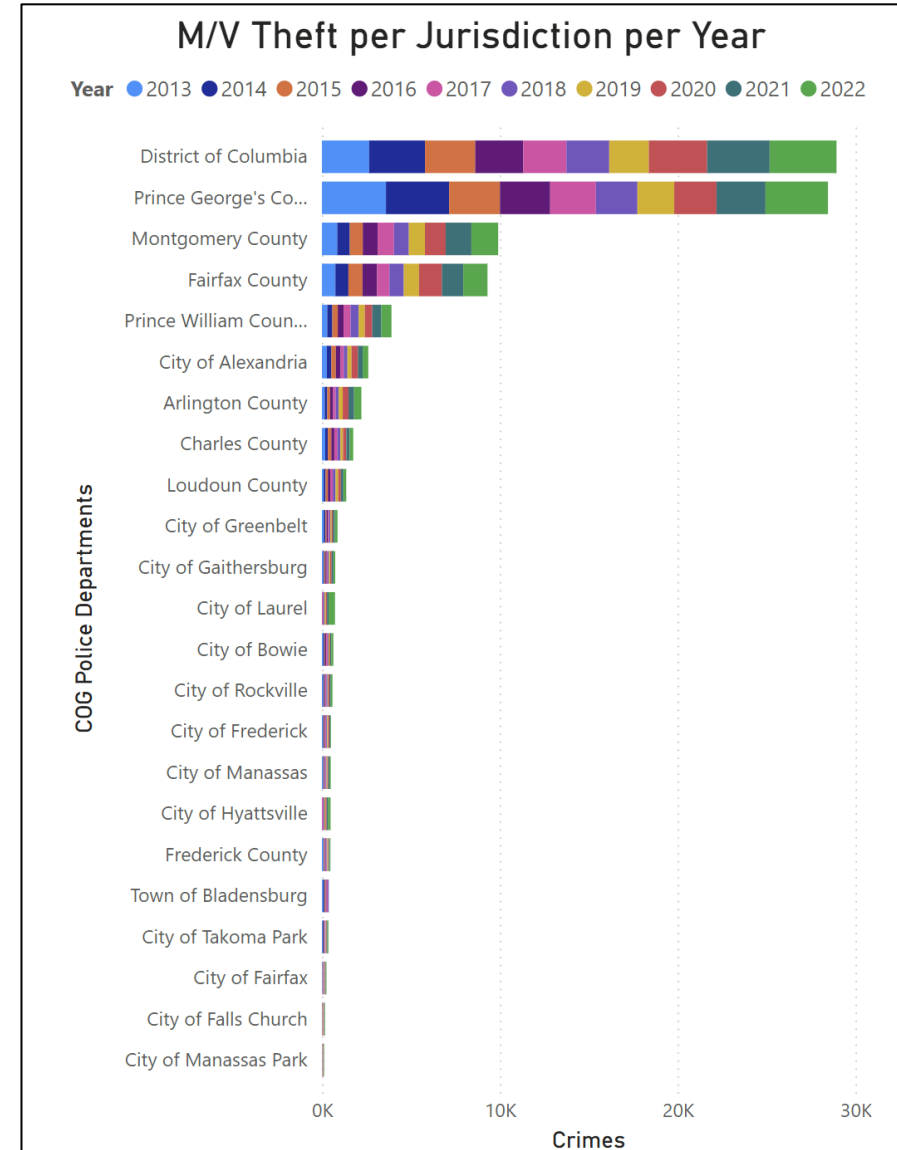
ICLEI/ClimateView Essential Dashboard
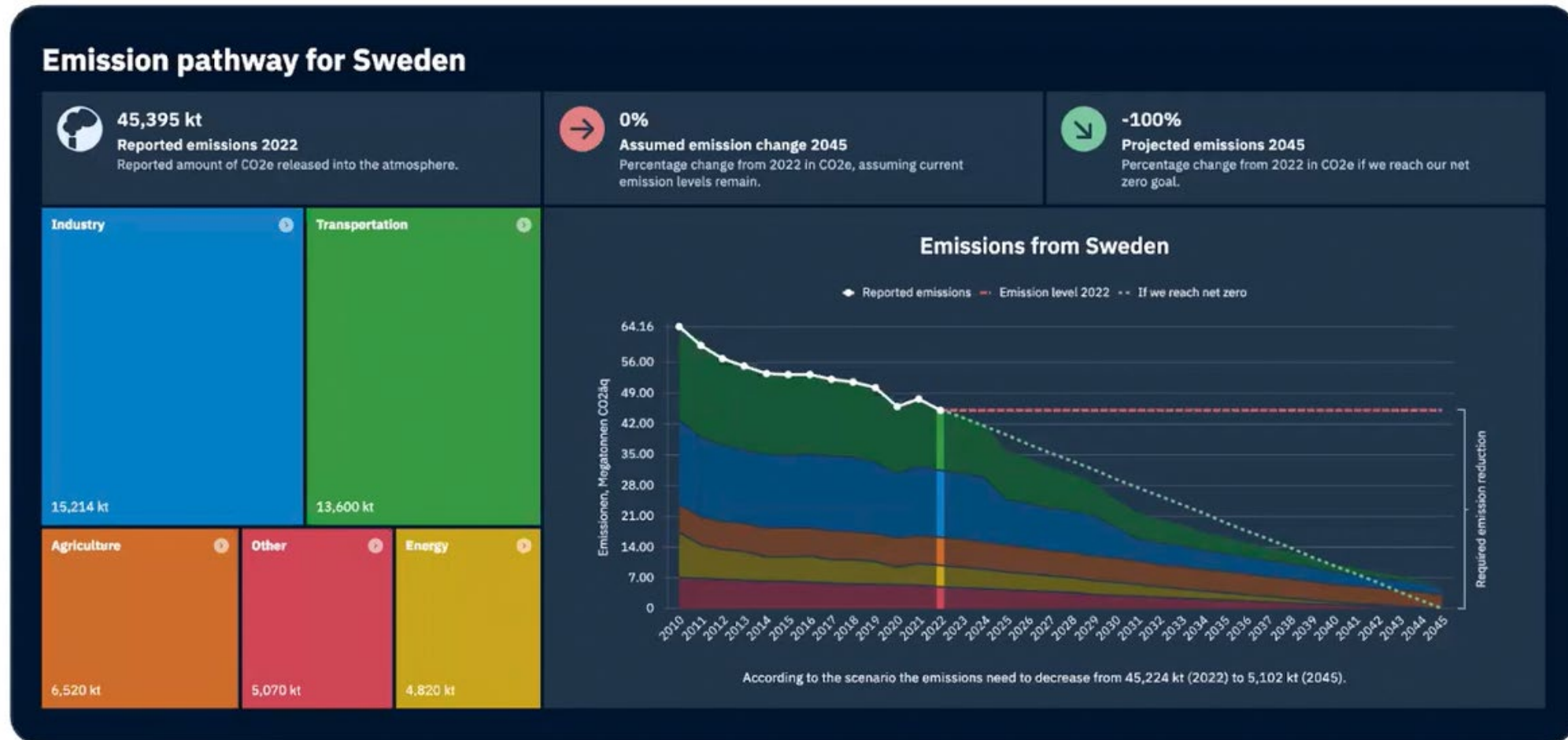
Source: ClearPath 2.0 Introduction Webinar

ICLEI/ClimateView Advanced Dashboard
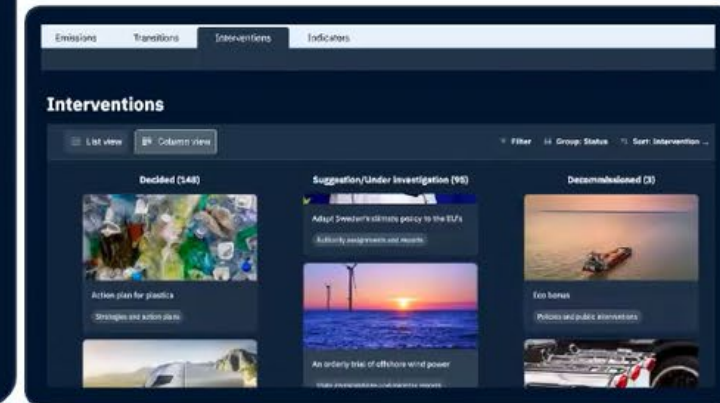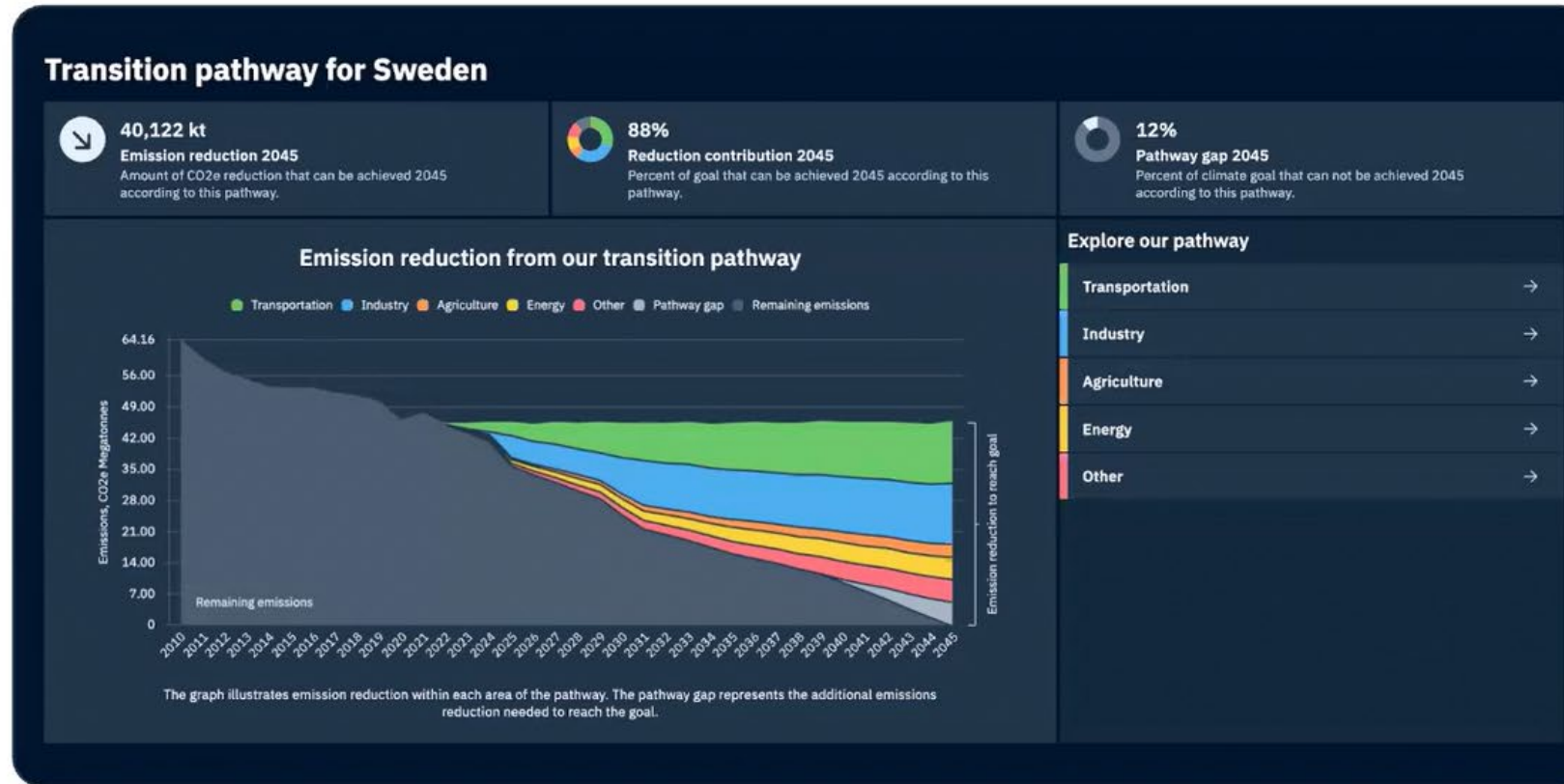
Source: ClearPath 2.0 Introduction Webinar

Resources

- [Metropolitan Washington 2030 Climate and Energy Action Plan](#)

- EPA Climate Pollution Reduction Program (CPRG) [Metropolitan Statistical Area (MSA) Priority Climate Action Plan](#) (PCAP)

- COG [Annual Climate and Energy Progress Reports](#) 2010 – 2015

- Local and Regional [GHG Inventories](#)

- COG Static [Climate and Energy Progress Dashboard](#)

- ICLEI [ClearPath 2.0](#)