

UPDATE ON REGIONAL CLIMATE GOALS

Greenhouse Gas (GHG) Reductions

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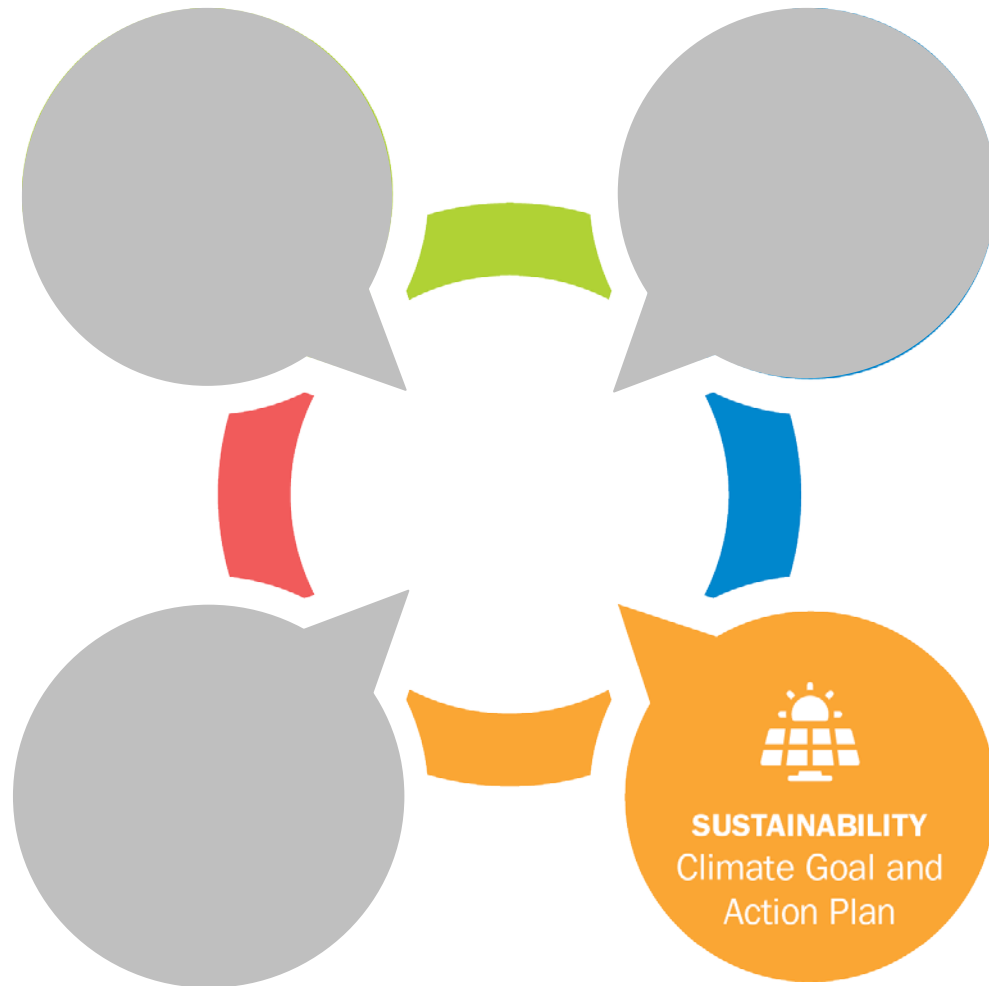
COG Board Meeting
October 12, 2022



Region United Planning Framework



Region United Planning Framework



Regional GHG Reduction Goals



2012 Goal Back to 2005 levels	✓
2020 Goal 20% reduction of 2005 levels	✓
2030 Goal 50% reduction of 2005 levels	Next!
2050 Goal 80% reduction of 2005 levels	



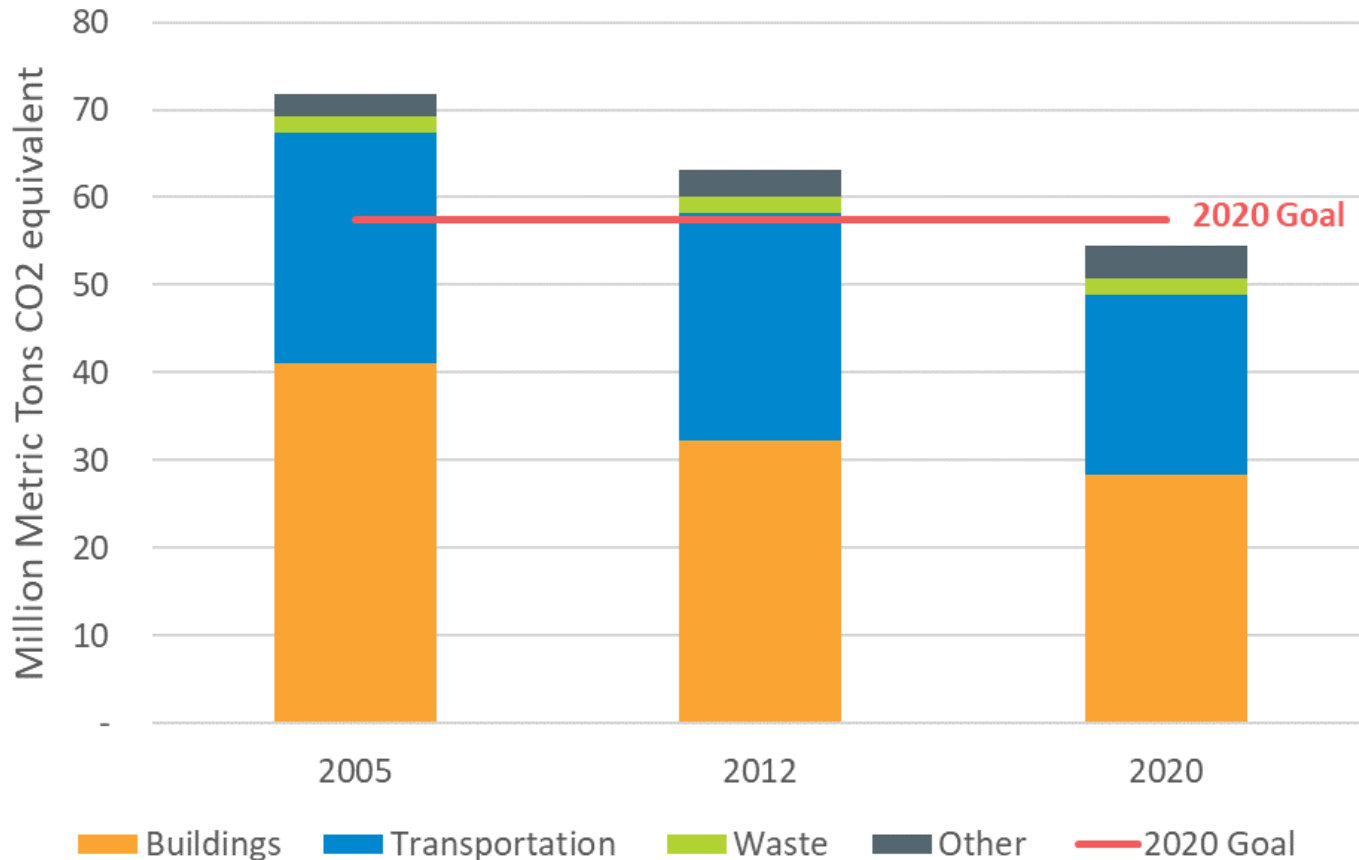
Regional Climate Planning

- (2008) **COG Climate Change Report** – COG Board adopted GHG reduction goals for 2012, 2020, and 2050; created the regional climate change initiative—one of the 1st in nation.
- (2009) COG Board created the Climate, Energy and Environment Policy Committee (CEEPC)
- (2010) Climate goals incorporated into the **Region Forward Vision**.
- (2014) Recognition from White House as Climate Action Champion.
- (2019) Recognition from Global Covenant of Mayors (GCoM).
- (2020) COG Board adopts additional 2030 GHG reduction goal; **2030 Climate and Energy Action Plan** released.
- (2021) Region met GCoM global standards for climate planning.

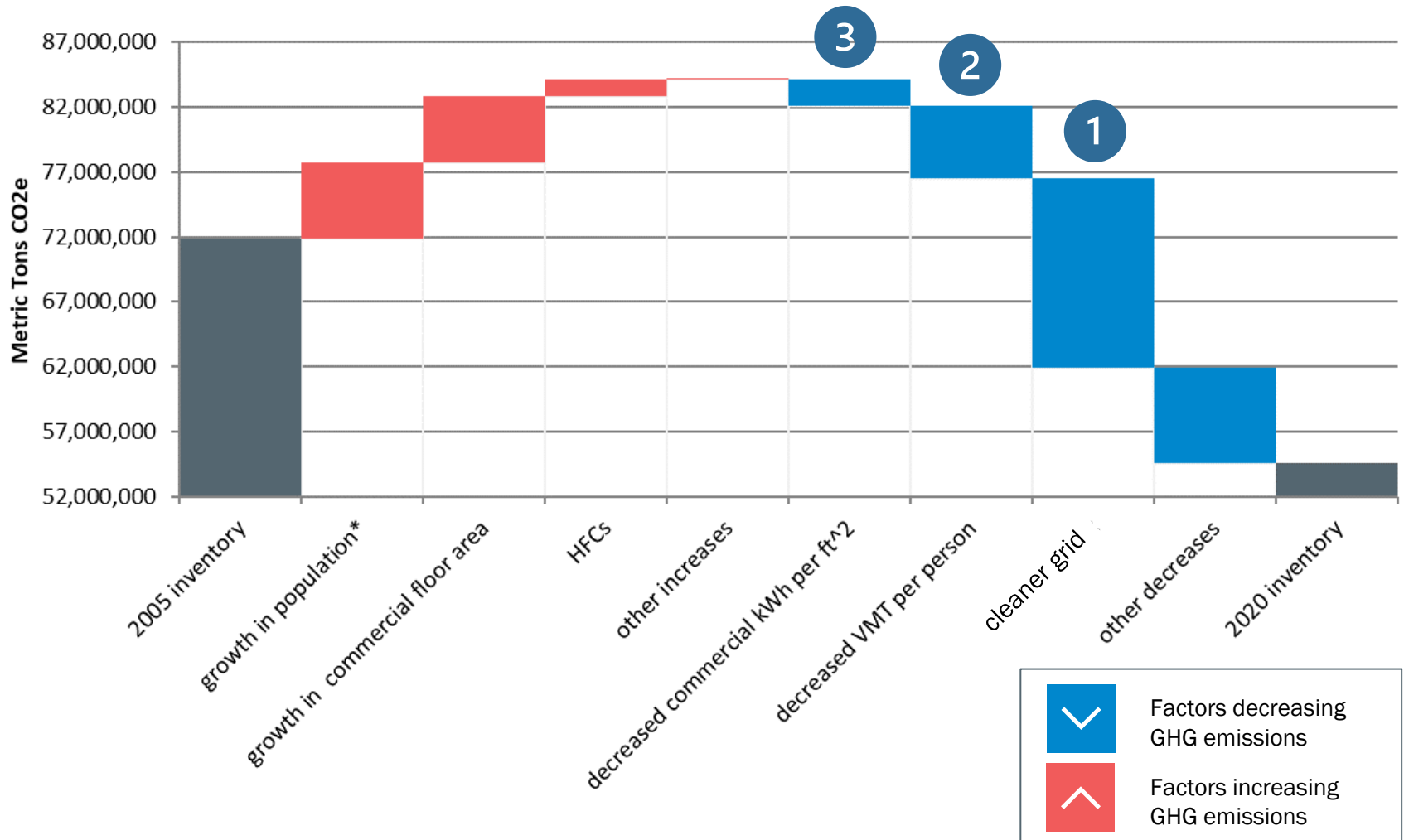


Regional GHG Emission Trends

GHG emissions decreased by at least **24 percent** from 2005 to 2020 in metropolitan Washington.



GHG Drivers of Change, 2005-2020



Key Performance Indicators – Buildings

- **Cleaner Grid:** Grid CO₂ emissions decreased from > 1,100 pounds/megawatt hour to 650 and less by 2020.
- **Electricity Consumption:** Electricity consumption increased 10% from 2005-2020 but is offset by a cleaner grid.
- **Natural Gas Consumption:** Natural gas consumption reduced 2% from 2005-2020.
- **Rooftop Solar:** Grid connected renewables grew from < 500 in 2009 to > 51K in 2020, surpassing the 2020 goal of 30K.
- **Green Buildings:** Third-party certified green buildings grew from < 90 in 2005 to > 5.3K in 2020, surpassing the 2020 goal of 5K.

Key Performance Indicators – Transportation

- **Cleaner Cars:** Hybrid and electric vehicle (EV) ownership grew > 72K in 2012 to > 179K in 2020
 - All electric and plug-in hybrid EVs grew from < 500 to > 33K
 - EV charging grew from 124 station locations to > 1.2K in 2021.
- Even as Population and Jobs grew by 13%, 2010 – 2020
 - **Vehicle Miles Traveled:** Decreased by 15%
 - **Job and Population Growth:** >50% near High-Capacity Transit Stations
 - **Drive alone commute** share: Decreased by 15%
 - **Teleworking:** Grew by 40%

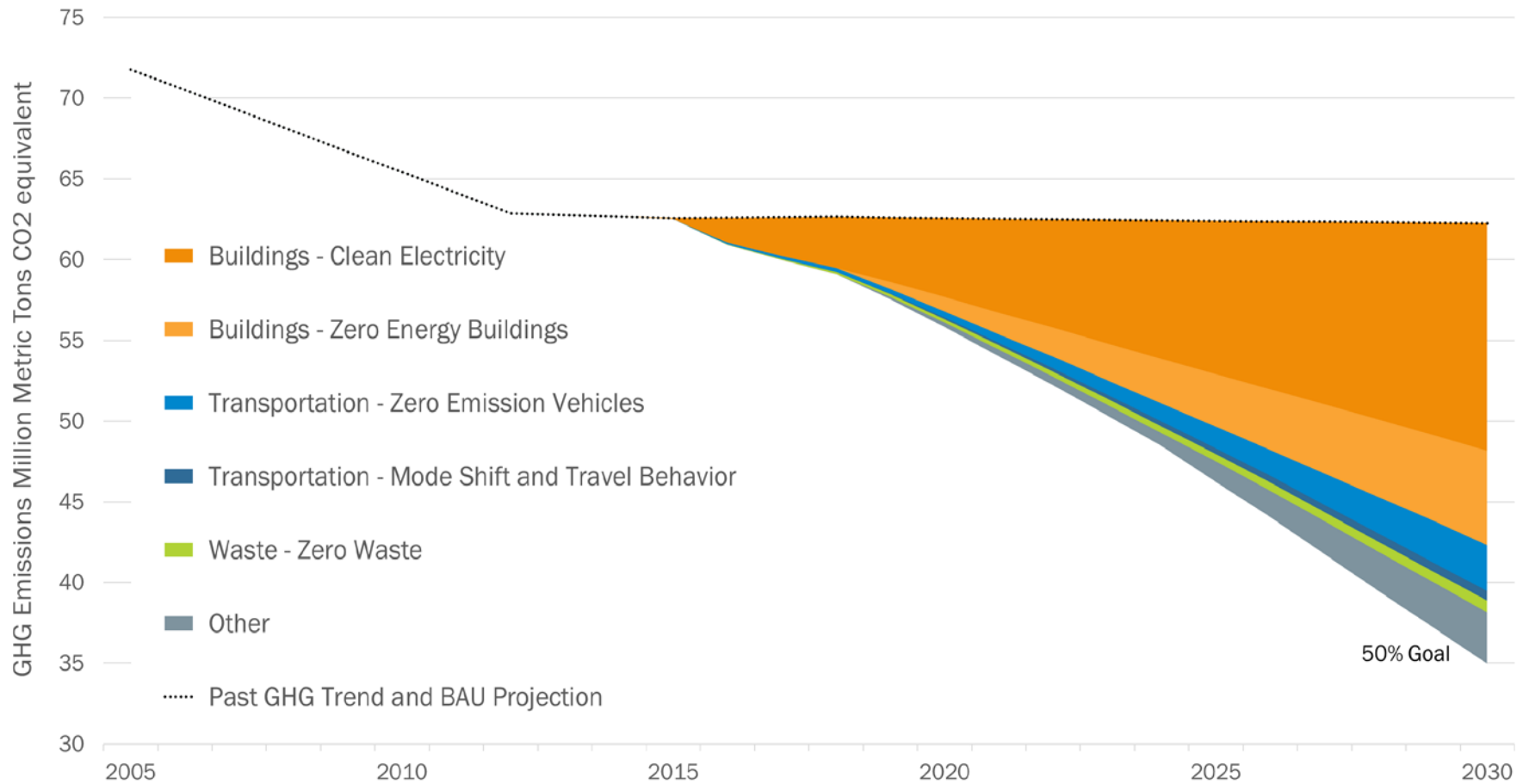


2020, COVID-19 and GHGs

- **Buildings:** Emissions were lower than projected for 2020, in part due to the pandemic; however, the grid getting cleaner and weather impacts also played a role.
- **Transportation:** Emissions were lower than previously projected for 2020 because less people were on the roads and flying during the height of the pandemic.
- **Waste:** Solid waste emissions were overall lower than projected for 2020. Waste that would have been generated and collected from businesses were generated within individual residences during the height of the pandemic.



50% GHG Reduction Strategies by 2030



Climate Planning/Project Support

A. Planning, Policy & Implementation

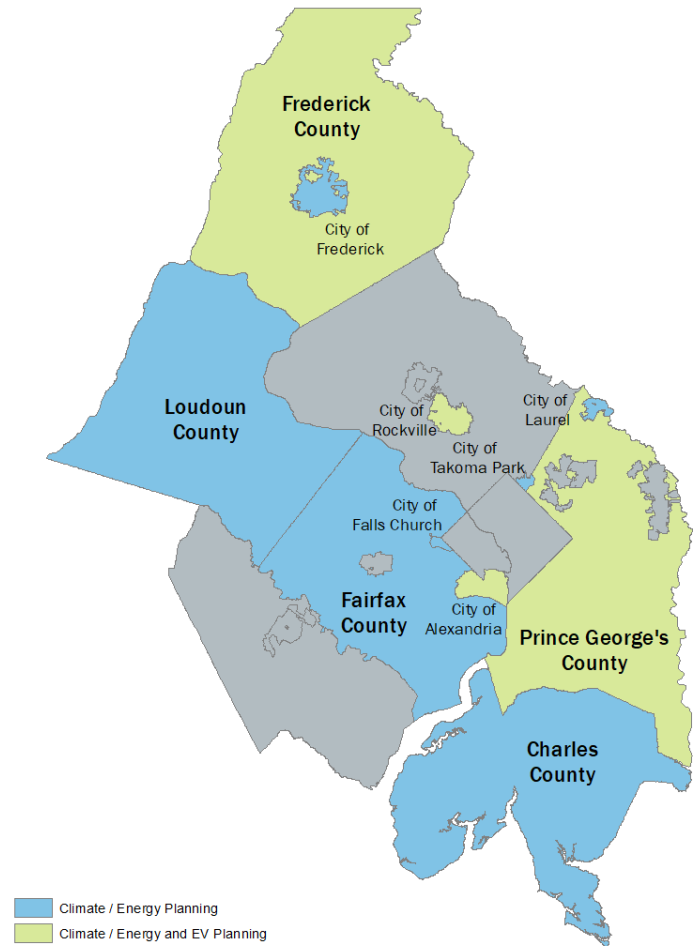
- Local and sub-regional climate and energy, EV planning
- New regional EV Deployment Working Group and Clearinghouse
- Coordinated policy guidance
- Diesel Emission Reduction Act repowers
- Bulk and cooperative procurement

B. Data and Tools

- Clean energy feasibility assessments
- Climate risk and vulnerability assessment tool

C. Outreach and Training

- DMV Climate Partners climatepartners.org
- Technical trainings, capacity building



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