

INTERIM 2030 GREENHOUSE GAS REDUCTION GOAL

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Transportation Planning Board
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New Greenhouse Gas Reduction Goals

- TPB is being asked to consider resolution R8-2021, which affirms the key elements contained in COG Board Resolution R45-2020 endorsing regional climate mitigation and resiliency goals, approved on October 14, 2020:
 - Affirms the 2030 interim regional greenhouse gas reduction goal of 50% below 2005 levels by 2030
 - Affirms the Region's climate resilience goals of becoming a Climate Ready Region and making significant progress to be a Climate Resilient Region by 2030
 - Affirms the need to incorporate equity principles and expand education on climate change into CEEPC and COG members' actions to reach the climate mitigation and resiliency goals

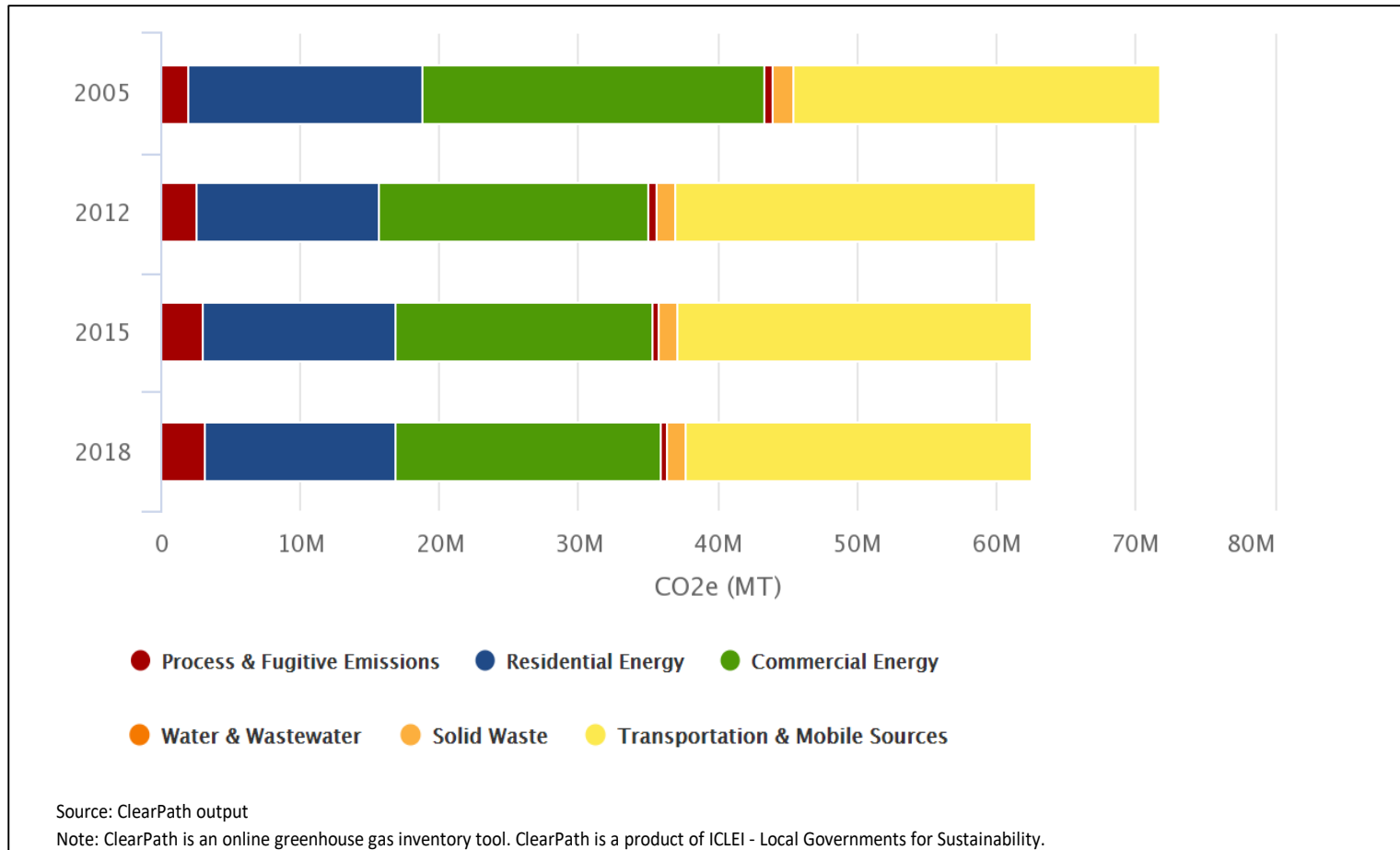


Current Regional Greenhouse Gas Reduction Goals

- In November 2008, the COG Board adopted regional greenhouse gas (GHG) goals:
 - 2012: 10 percent below the business as usual emissions projection, which was equivalent to returning to 2005 emissions levels
 - 2020: 20 percent below 2005 emissions levels
 - 2050: 80 percent below 2005 emissions levels
- TPB has affirmed (R10-2015) the current regional GHG reduction goals
- TPB has examined strategies within the transportation sector that would reduce GHG emissions (2010 “What Would it Take?” Scenario Study and 2017 “Multi-Sector Working Group” study)



Regional Greenhouse Gas Reductions



Source: MWCOG, *Metropolitan Washington Community-Wide Greenhouse Gas Emissions Inventory Summary*, July 17, 2018.



Basis for New Greenhouse Gas Reduction Goals

- The interim goal was recommended by COG's Climate, Energy and Environment Policy Committee (CEEPC)
 - Considered a range of 2030 goals, between 40 and 50 percent below the 2005 emissions levels
 - Reviewed the latest science from the Intergovernmental Panel on Climate Change calling for at least a 45 percent reduction in emissions by 2030
 - Confirmed consistency with goals recently adopted by or being considered by multiple COG member localities
 - Conducted modeling to support recommendation of 50% below 2005 emissions levels by 2030
 - Utilized framework for global best practices as developed by Global Covenant of Mayors for Climate and Energy (GCoM)
- CEEPC is developing 2030 Action Plan document listing the strategies with the greatest potential



Strategies Analyzed for 50% Reduction Goals

GHG Emission Reduction Activity	Assumptions
Renewable Portfolio Standards	Current standards (DC 87%, MD 50%, Northern VA 38% by 2030)
Other Renewables	> 200,000 additional solar systems, equivalent to 24% of single-family homes
	Continued 10% annual growth of green power purchases
	>16% of gas supply from renewable natural gas
Building Policies and Programs	All new construction net zero energy by 2030
	2% of residential and commercial existing buildings get deep retrofits annually
Zero Emission Vehicle Deployment	EV adoption rates of >20% light duty cars, >9% light duty trucks, >4% medium/heavy duty trucks, and >30% transit buses
Transportation Policies and Programs	75% new housing in Activity Centers with high capacity transit
	Continued transit improvements and transportation demand management to reduce VMT
Zero Waste Policies and Programs	80% diversion by 2030

TPB staff are working with staff in COG's Department of Environmental Programs (DEP) to draft transportation section of 2030 Action Plan



TPB Resolution on New Regional Greenhouse Gas Reduction Goals

- R8-2021:
 - Affirms the 2030 interim regional greenhouse gas reduction goal of 50% below 2005 levels by 2030
 - Affirms the Region's climate resilience goals of becoming a Climate Ready Region and making significant progress to be a Climate Resilient Region by 2030
 - Affirms the need to incorporate equity principles and expand education on climate change into CEEPC and COG members' actions to reach the climate mitigation and resiliency goals
- Consistent with COG Board Resolution R45-2020, adopted on October 14, 2020



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