

METROPOLITAN WASHINGTON 2030 CLIMATE & ENERGY ACTION PLAN

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COG Board of Directors
March 11, 2020

COG's Climate Action History

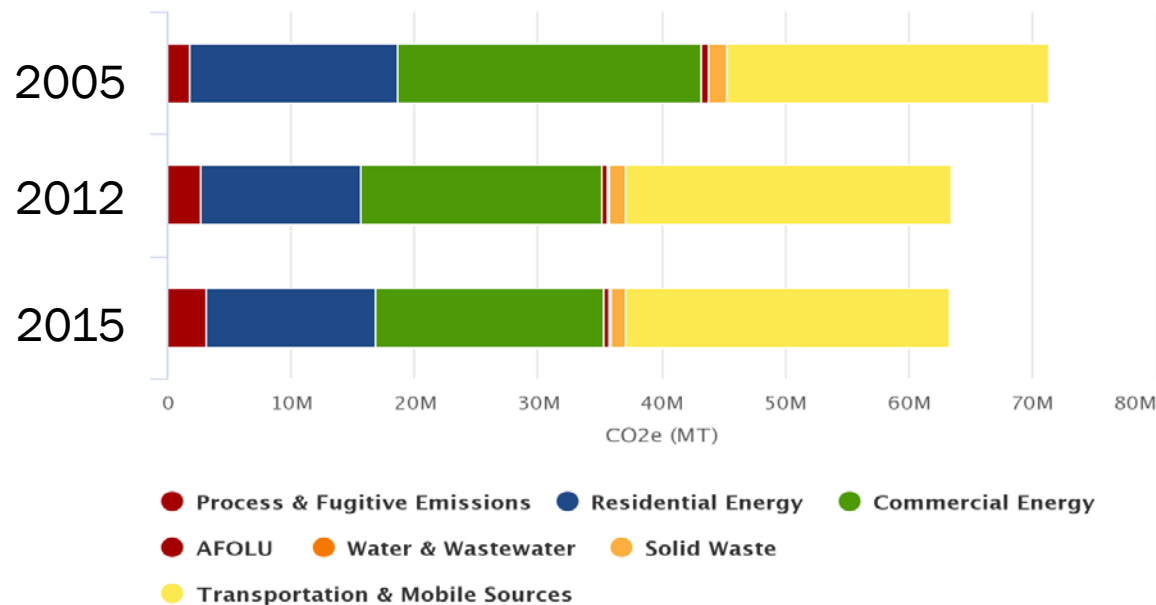
- 2007: R31-07 created the COG Climate Change Initiative
- 2008: Resolution R60-08 adopted the National Capital Region Climate Change Report
- 2009: Resolution 18-09 established the Climate, Energy and Environment Policy Committee
- 2010: Greenhouse gas emission reduction targets incorporated into Region Forward
- 2010: CEEPC adopted the first regional Climate and Energy Action Plan for 2010-2012.
- 2013-2016 and 2017-2020: Updated Action Plans adopted
- **2020-2030: Action Plan now under development**

COG's Greenhouse Gas Emission Reduction Targets

- 2008 National Capital Region Climate Change Report GHG emission reduction targets
 - By 2012, reduce Business As Usual emissions by 10% - roughly equivalent to 2005 baseline
 - By 2020, reduce greenhouse gas emissions by 20% below 2005 baseline
 - By 2050, reduce greenhouse gas emissions by 80% below 2005 baseline
- Based on Intergovernmental Panel on Climate Change recommendations to stabilize projected global temperature rise

Regional Greenhouse Gas Emission Inventory

- Measures Progress toward Regional targets
 - 51% Built environment
 - 42% Transportation
 - 7% Mixed activities



Climate Planning Guiding Principles

1. Collective action
2. Effective partnerships
3. Lead by example
4. Integration
5. Flexibility
6. Transparency
7. Innovation
8. Community leadership
9. Inclusive engagement
10. Advocacy
11. Urgency



2020 Climate and Energy Action Plan

1. Reduce GHG emissions
 2. Reduce energy consumption
 3. Increase share of renewables
 4. Build regional resilience
 5. Advance sustainable regional mobility
 6. Increase sustainable urban development
 7. Move towards zero waste
 8. Protect equity and health
 9. Grow the regional economy
- Diagrammatic groupings on the right side of the list:
- CEEPC (encompassing items 1-4)
 - TPB (encompassing item 5)
 - Region Forward (encompassing item 6)
 - Waste & Recycling (encompassing item 7)
 - All (encompassing items 8-9)

Looking Forward: 2030 Action Plan

- 2030 interim greenhouse gas emission reduction goal
- Global Covenant of Mayors For Climate & Energy (GCoM)
 - 9,200 cities/counties worldwide; 162 in US
 - Expanded regional focus; four Metro-Scale Climate Leaders in US
- Why GCoM?
 - Common reporting framework
 - Revised Business as Usual projections
 - GHG emissions inventory independent review
 - Mitigation targets and low-carbon scenarios
 - Climate Risk and Vulnerability Assessment
 - Mitigation and adaptation actions
 - Technical assistance

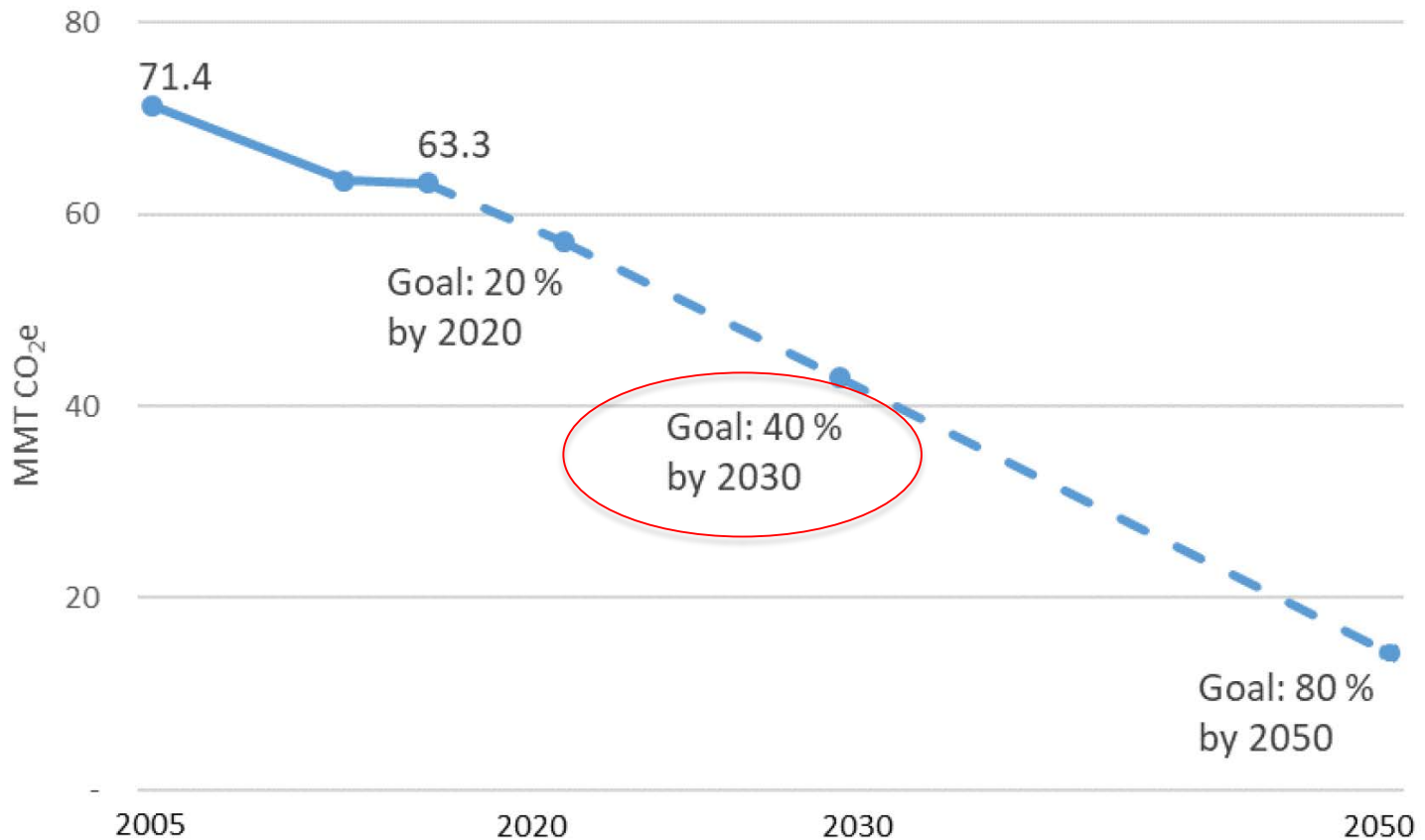


Looking Forward: 2030 Action Plan

- November 2019
 - GHG inventory review
 - Mitigation strategies
 - Climate Risk and Vulnerability Assessment
- February 2020
 - COG Board Resolution - Transportation & Climate Initiative
- March 2020
 - Assess 2030 GHG emission reduction goal
 - Review Business as Usual projections
 - Prioritize mitigation strategies
 - Finalize Climate Risk and Vulnerability Assessment
 - Assess adaptation/resiliency strategies
- September 2020
 - Recommend to COG Board 2030 regional GHG emission reduction goal & Action Plan

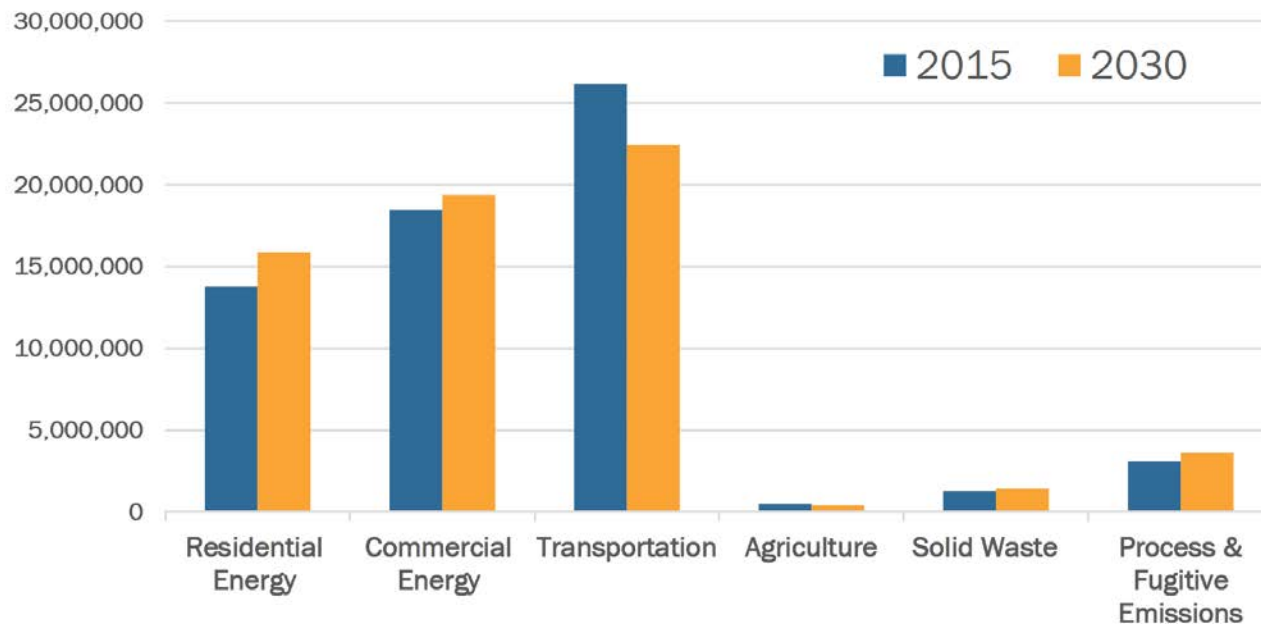


Looking Forward: 2030 Regional GHG Emission Reduction Target



Looking Forward – Business as Usual

- Total GHG emissions would start to increase again
- Reflects growth in population, employment, transportation
- Accounts for “on-the-books” actions as of 2015



Looking Forward: Technical Potential

- Assessed the technical potential to reach a 40% target
- Found reaching the target is technical feasible
- Requires wide-spread application of actions
- Areas of Opportunity
 1. Deep building retrofits; net zero-buildings
 2. Renewable electricity
 3. Electric-based transportation
 4. Travel demand management
 5. HFC refrigerant replacements



Looking Forward: Climate Risk and Vulnerability Assessment

Climate Hazards

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

Adaptive Capacity

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



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