

# REGIONAL 2030 CLIMATE AND ENERGY ACTION PLANNING

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ACPAC  
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Item 3

# 2030 Climate & Energy Action Plan Goal - GHG Emission Reductions

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- Climate, Energy, & Environment Policy Committee developing *2030 Climate & Energy Action Plan*
  - 2020 regional greenhouse gas (GHG) emission reduction goal
  - New 2030 regional GHG emissions mitigation goal
  - New 2030 regional resiliency goal
  - Regional 2030 *Action Plan* elements
- Using climate planning guidance from Global Covenant of Mayors for Climate & Energy (GCoM)

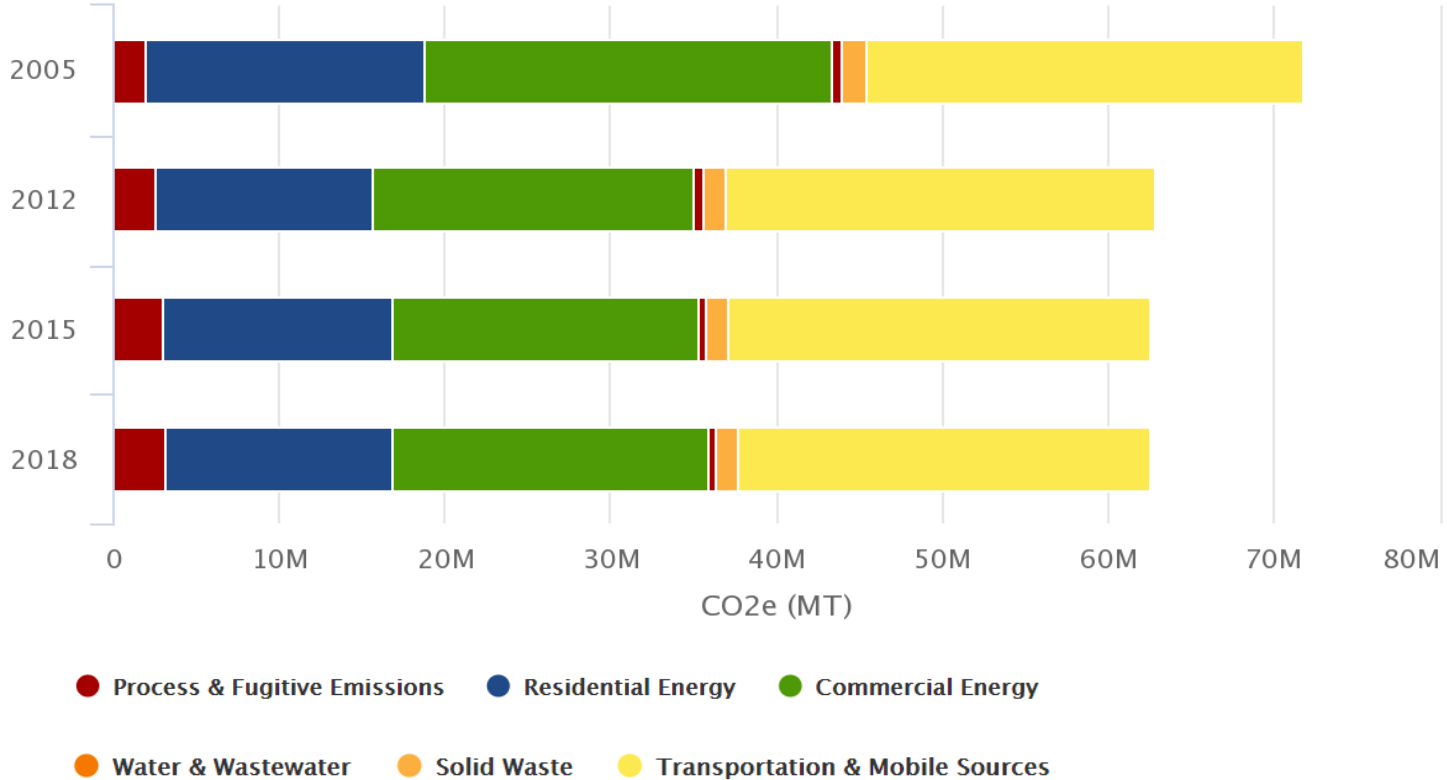
# Regional GHG Mitigation Goals

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- Intergovernmental Panel on Climate Change (IPCC) on limiting global warming to 1.5° C
  - Avoid many climate change impacts by limiting global warming to 1.5° C (such as more extreme weather, sea level rise and loss of ecosystems)
  - Global net human-caused emissions of carbon dioxide (CO<sub>2</sub>) would need to fall  $\pm$  45% from 2010 to 2030; ‘net zero’ by 2050
  - Requires “rapid and far-reaching” transitions in land, energy, industry, buildings, transport, and cities
- Regional goals set in 2008
  - 2012 – Reduce from business as usual by 10% (roughly 2005 levels)
  - 2020 – Reduce 20% below 2005
  - 2050 – Reduce 80% below 2005

# Regional GHG Mitigation Goals

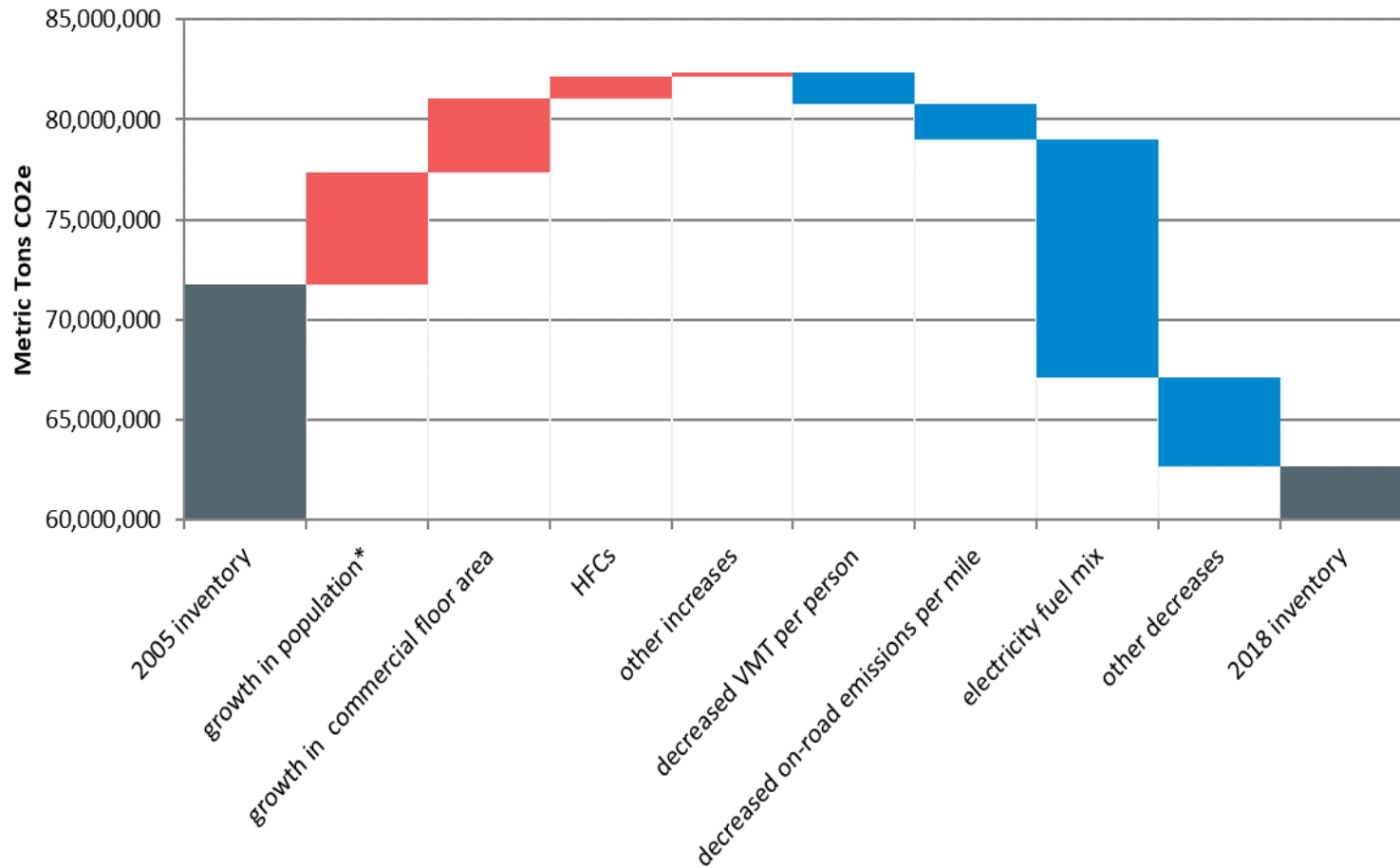
- 13% Reduction in GHGs across region, 2005 - 2018



Source: ClearPath output

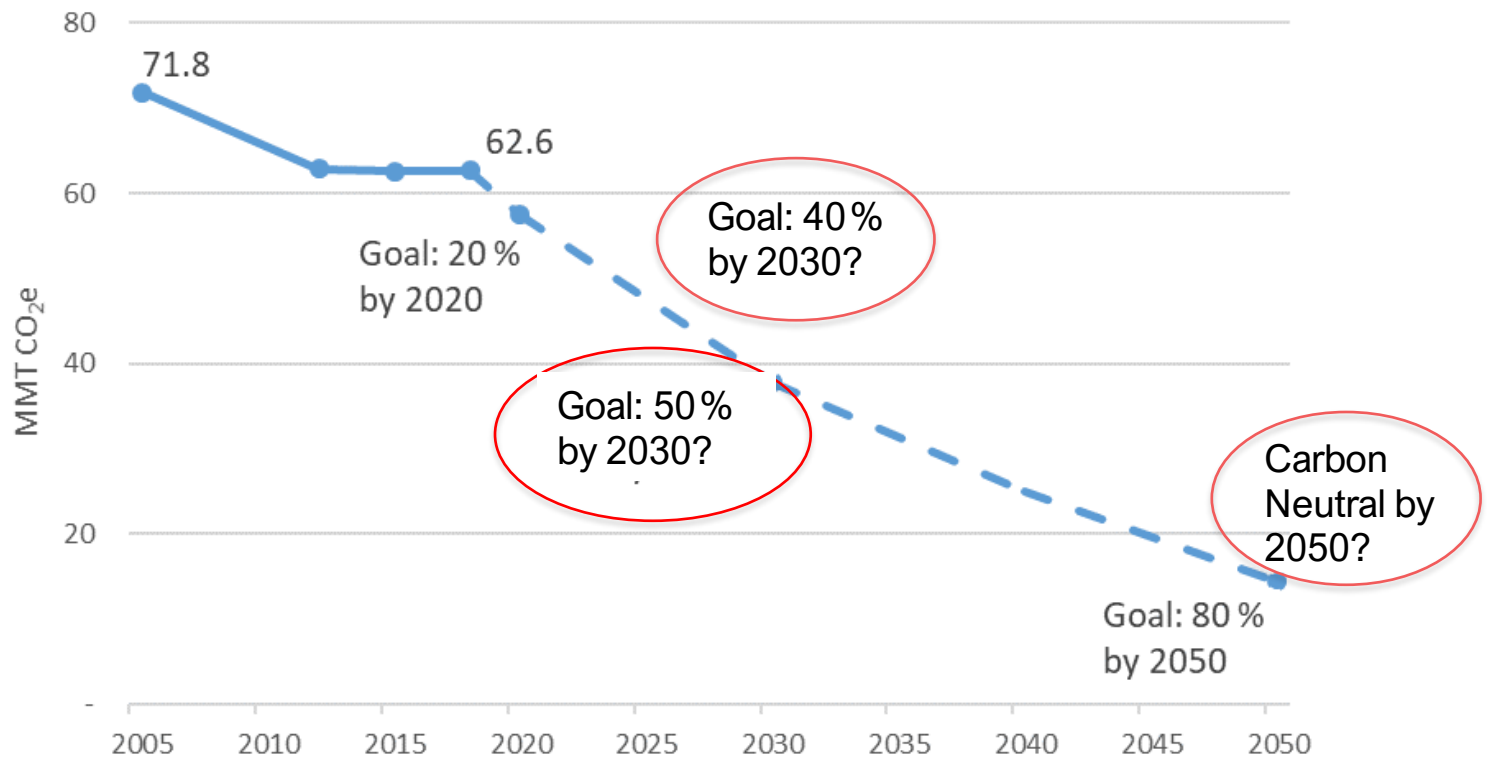
Note: ClearPath is an online greenhouse gas inventory tool. ClearPath is a product of ICLEI - Local Governments for Sustainability.

# Drivers of Regional GHG Change



# Updated Regional GHG Mitigation Goals

- 40 to 50% 2030 GHG reduction goal?
- Carbon neutral by 2050 goal?



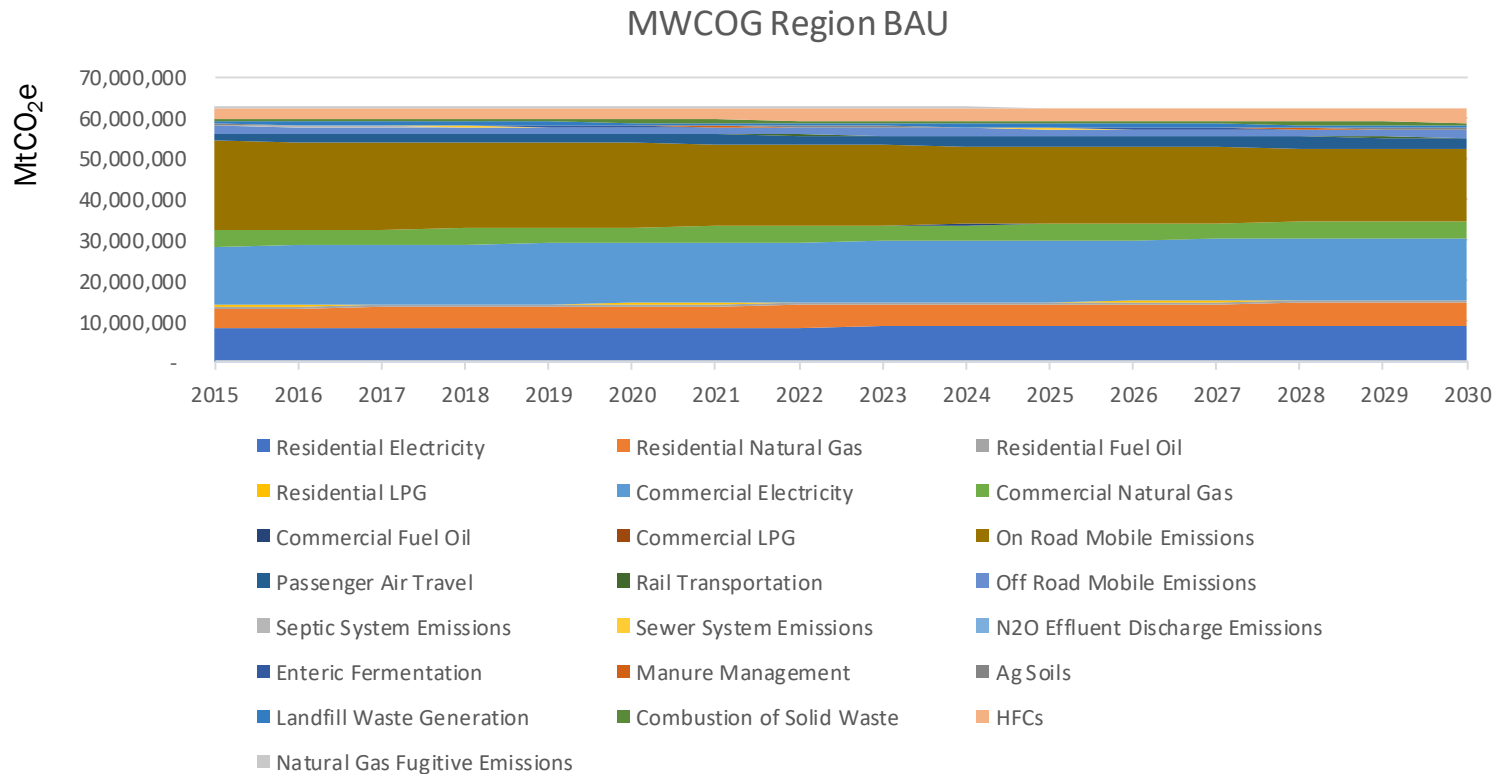
# Regional Resilience Goals

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- Network of people, governments, and institutions that have constructed resilient communities
- Climate risks are being communicated across governmental offices and to the public; engaging vulnerable populations
- Local climate risks have been assessed and climate planning is incorporated into all government plans & operations
- Measures have been implemented across the region
  - Critical infrastructure and functions climate resilient
  - Resilient solutions to protect public health and safety deployed
- Monitoring measures to address progress & future climate risks and vulnerabilities

# Updated Business As Usual Emissions

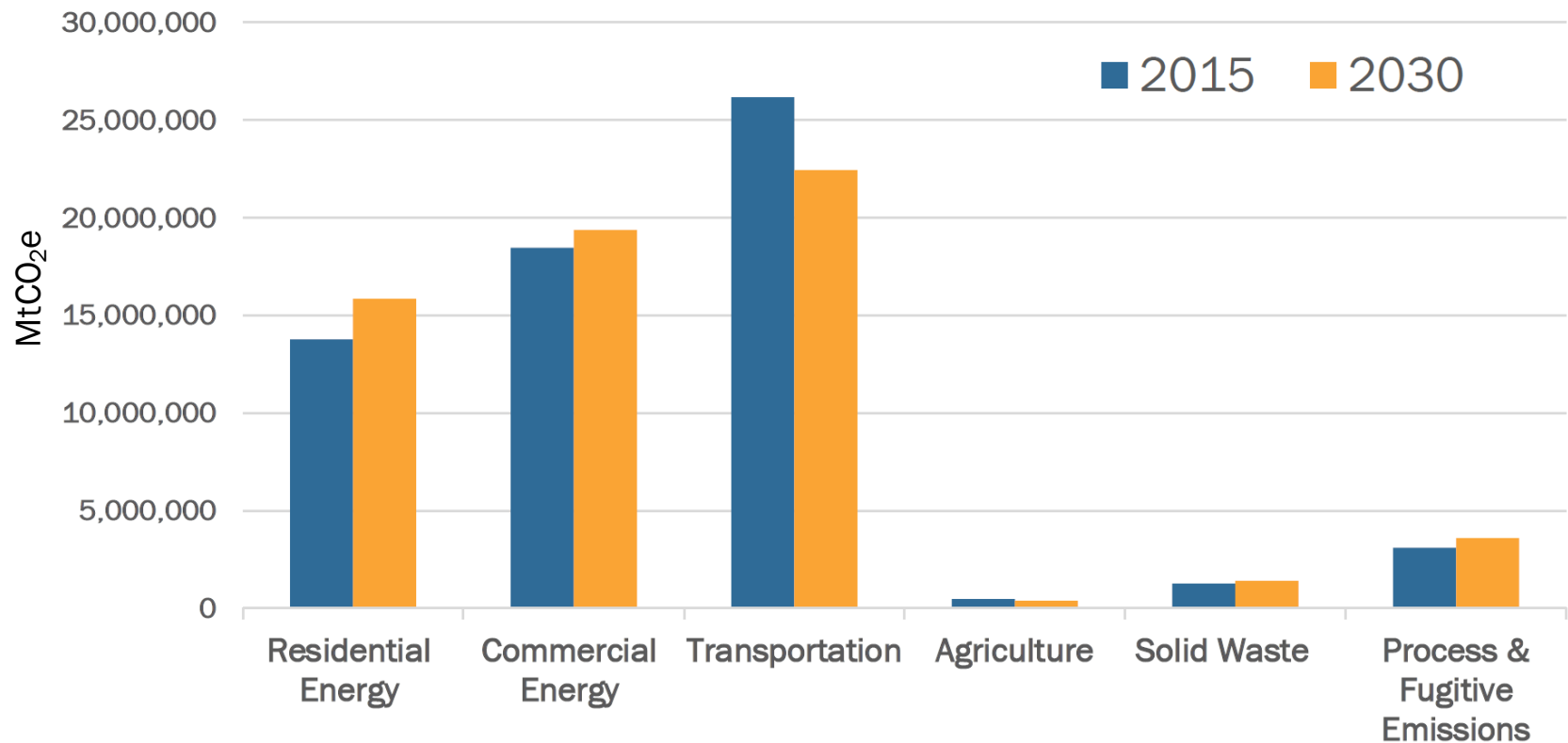
- Total emissions will remain flat with no new future actions
- Accounts for growth in population, economy, & VMT; savings from “on the books” actions





# Updated Business As Usual Emissions

- Future change not uniform by sector



# 50% Reduction - Technical Potential

Updated Scenario Assumptions	
Renewable Energy	<ul style="list-style-type: none"> <li>• Renewable Portfolio Standards - Current standards (DC 87%, MD 50%, NOVA 38% by 2030)</li> <li>• + 200,000 additional distributed generation systems – equivalent to 24% of single-family homes with solar</li> <li>• 10% annual growth in corporate green power purchases</li> </ul>
Transportation	<ul style="list-style-type: none"> <li>• Continued fleet improvements – light, medium &amp; heavy-duty vehicles</li> <li>• Electric vehicles: Add NREL Electrification Futures Study high EV adoption rates</li> <li>• Continued transit &amp; micromobility – reduce VMT</li> </ul>
Buildings	<ul style="list-style-type: none"> <li>• 75% of new housing in Activity Centers with high capacity transit</li> <li>• All new construction new zero by 2030</li> <li>• 2% residential &amp; commercial building deep retrofits annually</li> </ul>
Zero Waste	<ul style="list-style-type: none"> <li>• 80% diversion by 2030</li> </ul>



# Timeline

Regional Climate Plan Updated Timeline	
June 2020	<ul style="list-style-type: none"> <li>• BEEAC and ACPAC weigh in on Plan's goals</li> <li>• BEEAC Review of Plan's scenarios</li> </ul>
July 2020	<ul style="list-style-type: none"> <li>• BEEAC deadline for comment on technical elements</li> <li>• CEEPC review of 2018 inventory, scenarios, and weigh in on Plan's goals</li> </ul>
September 2020	<ul style="list-style-type: none"> <li>• Presentation to COG Board</li> </ul>
September 2020	<ul style="list-style-type: none"> <li>• Preview Draft Plan framework &amp; Climate Goals Resolution to ACPAC, BEEAC, CEEPC</li> <li>• CEEPC recommendation to COG Board</li> </ul>
<b>October 2020</b>	<ul style="list-style-type: none"> <li>• <b>2030 Climate Goal Resolution before COG Board</b></li> </ul>
November 2020	<ul style="list-style-type: none"> <li>• Draft Plan before CEEPC</li> </ul>
December 2020	<ul style="list-style-type: none"> <li>• Submit to GCoM;</li> <li>• 1<sup>st</sup> US Region fully meeting GCoM global standards for climate planning</li> </ul>



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