

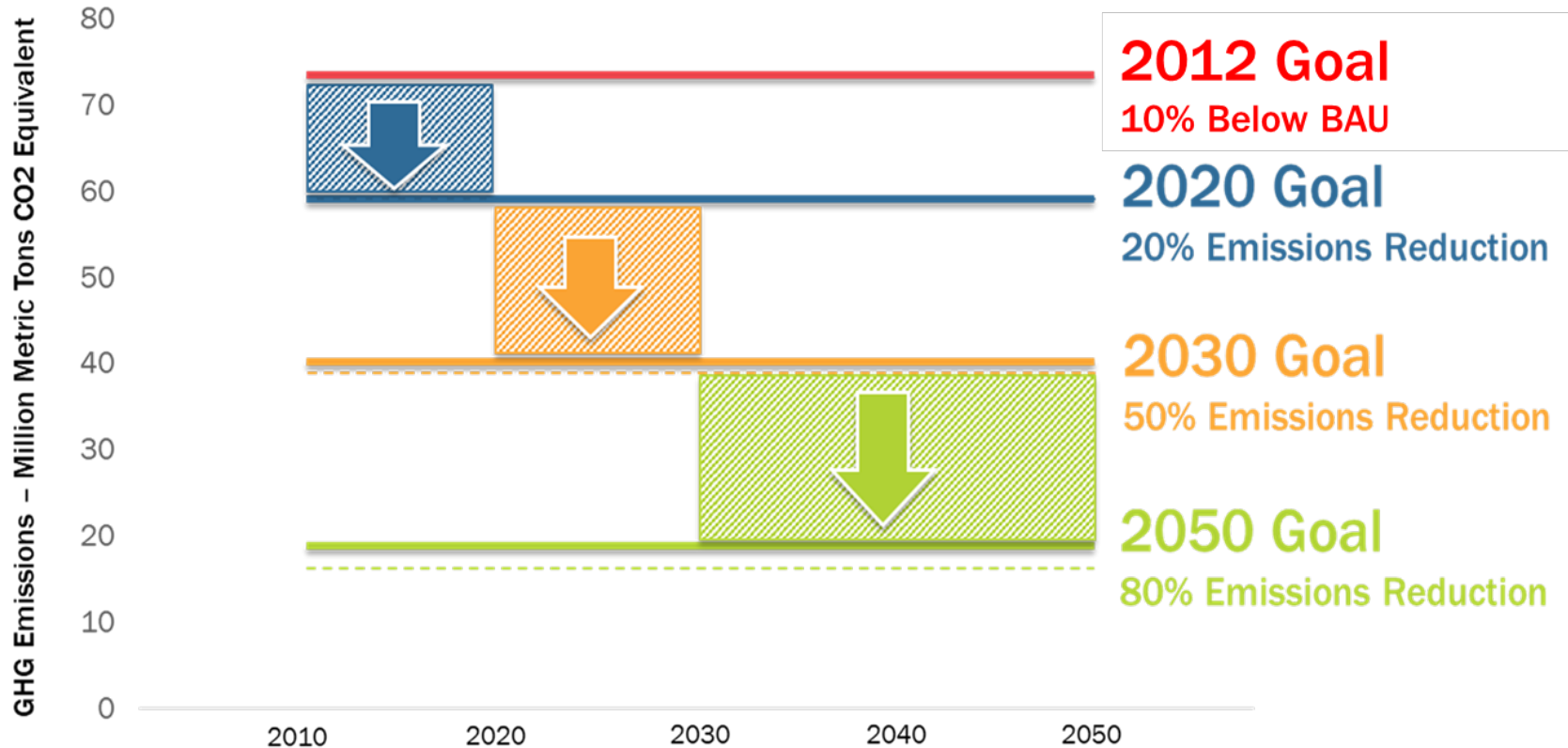
# GHG EMISSIONS INVENTORY UPDATE

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Tim Masters, COG Environmental Planner

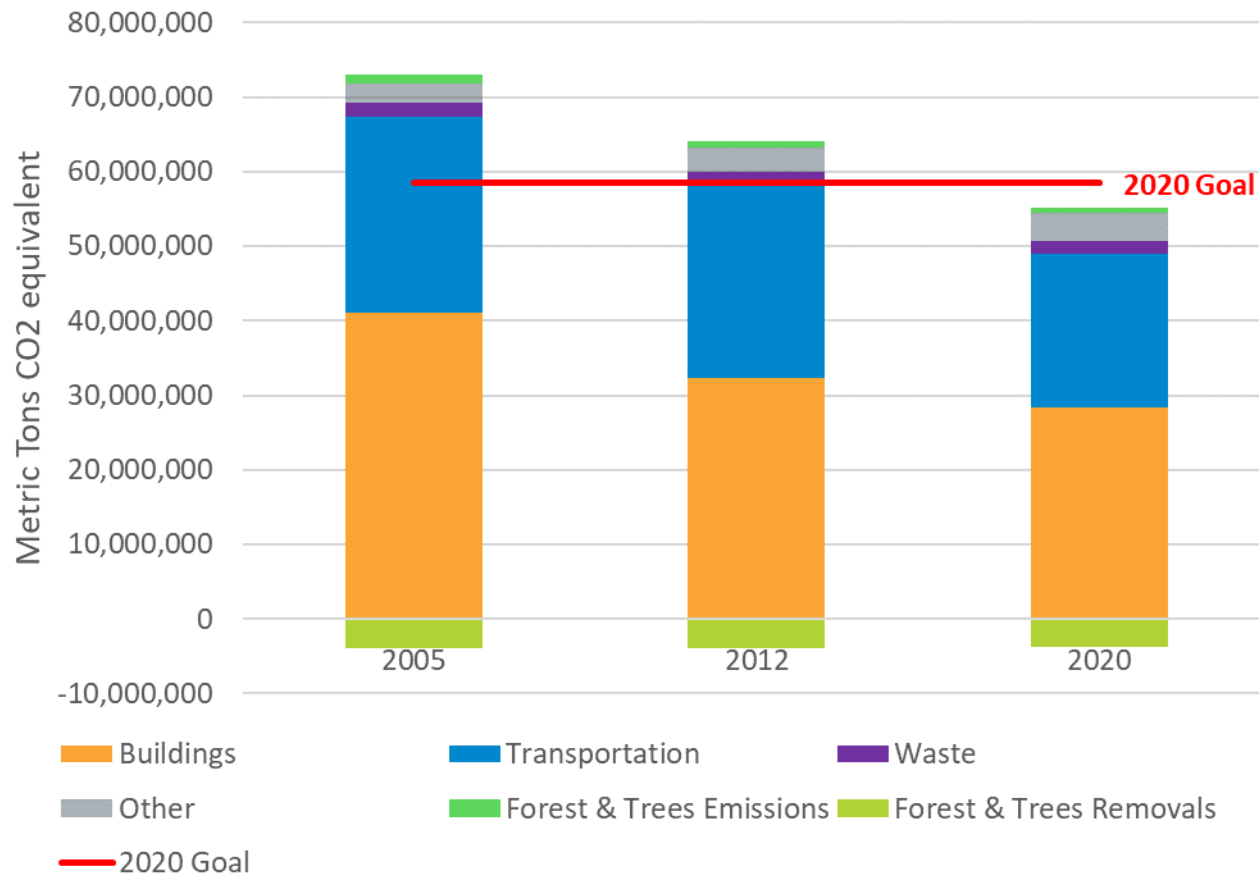
MWAQC-TAC Meeting  
December 7, 2022

# Regional GHG Reduction Goals



# Regional GHG Emission Trends

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



# Regional GHG Emission 2020 Stats



**17.3**

million metric tons  
CO2 equivalent  
emissions reduced  
from 2005-2020

*This is the equivalent to  
taking 3.3 million homes  
off the grid for one year.*



**52**

percent total GHG  
emissions from  
energy consumption  
in 2020

*31% from commercial  
energy consumption and  
21% from residential energy  
consumption*



**38**

percent total GHG  
emissions from  
transportation in  
2020

*31% from on-road, 3% from  
off-road, 3% from air  
passenger travel, <1% from  
commuter rail*



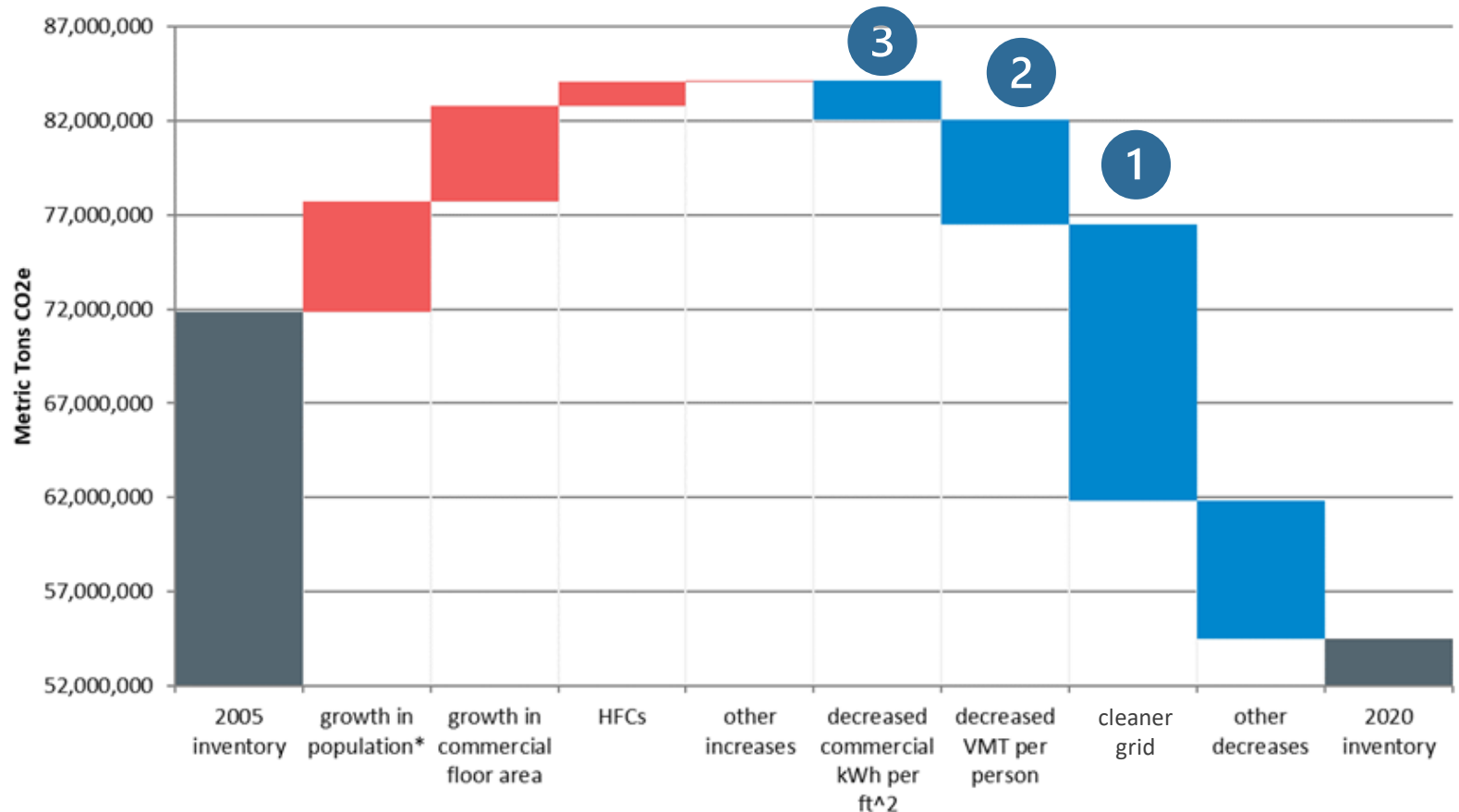
**37**


percent reduction  
of per capita  
emissions from  
2005-2020

*Per capita emissions  
reduced from 15.1 metric  
tons of CO2 equivalent in  
2005 to 9.6 in 2020.*



# GHG Drivers of Change, 2005-2020





Factors decreasing GHG emissions



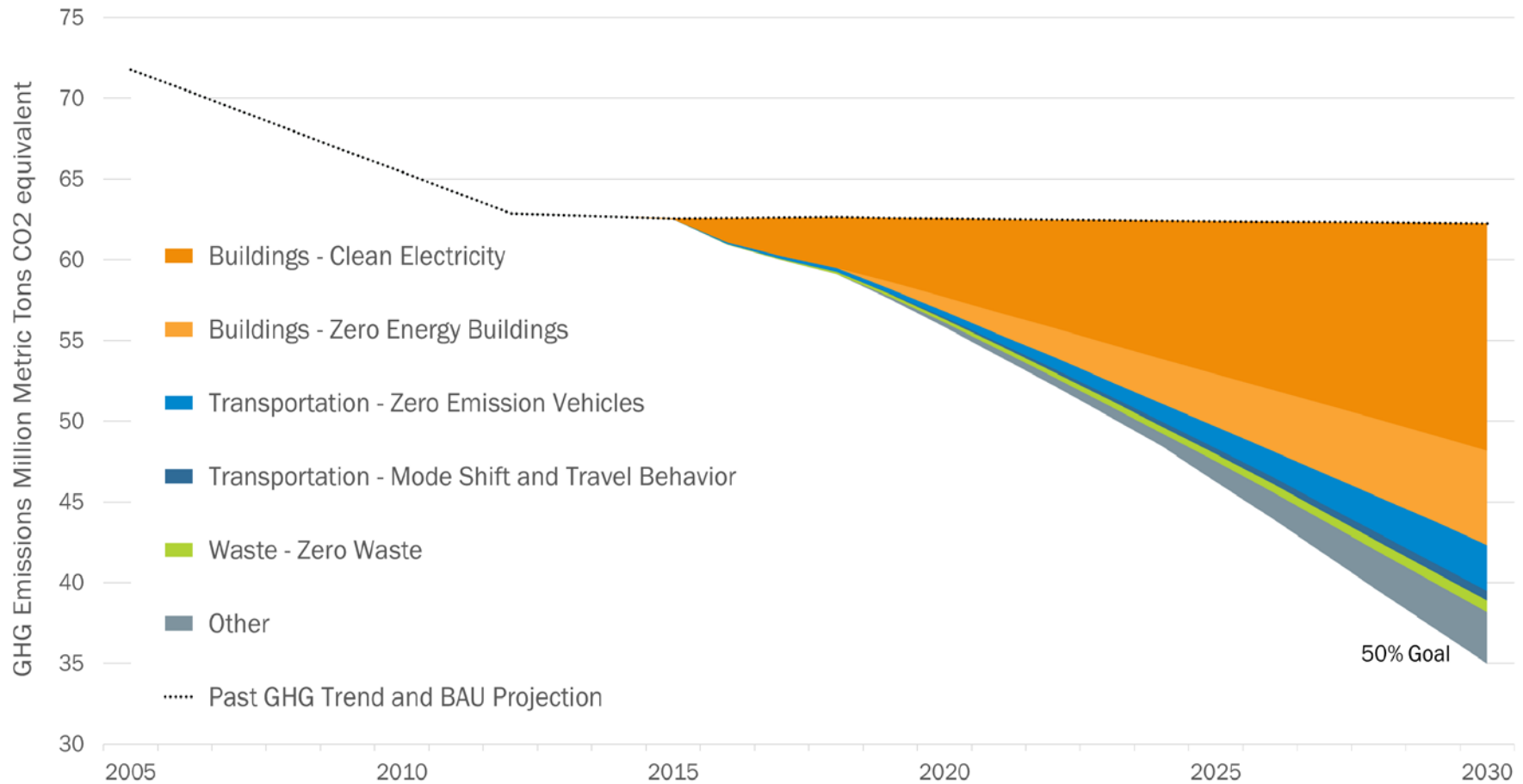
Factors increasing GHG emissions

# 2020, COVID-19 and GHGs

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- **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



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