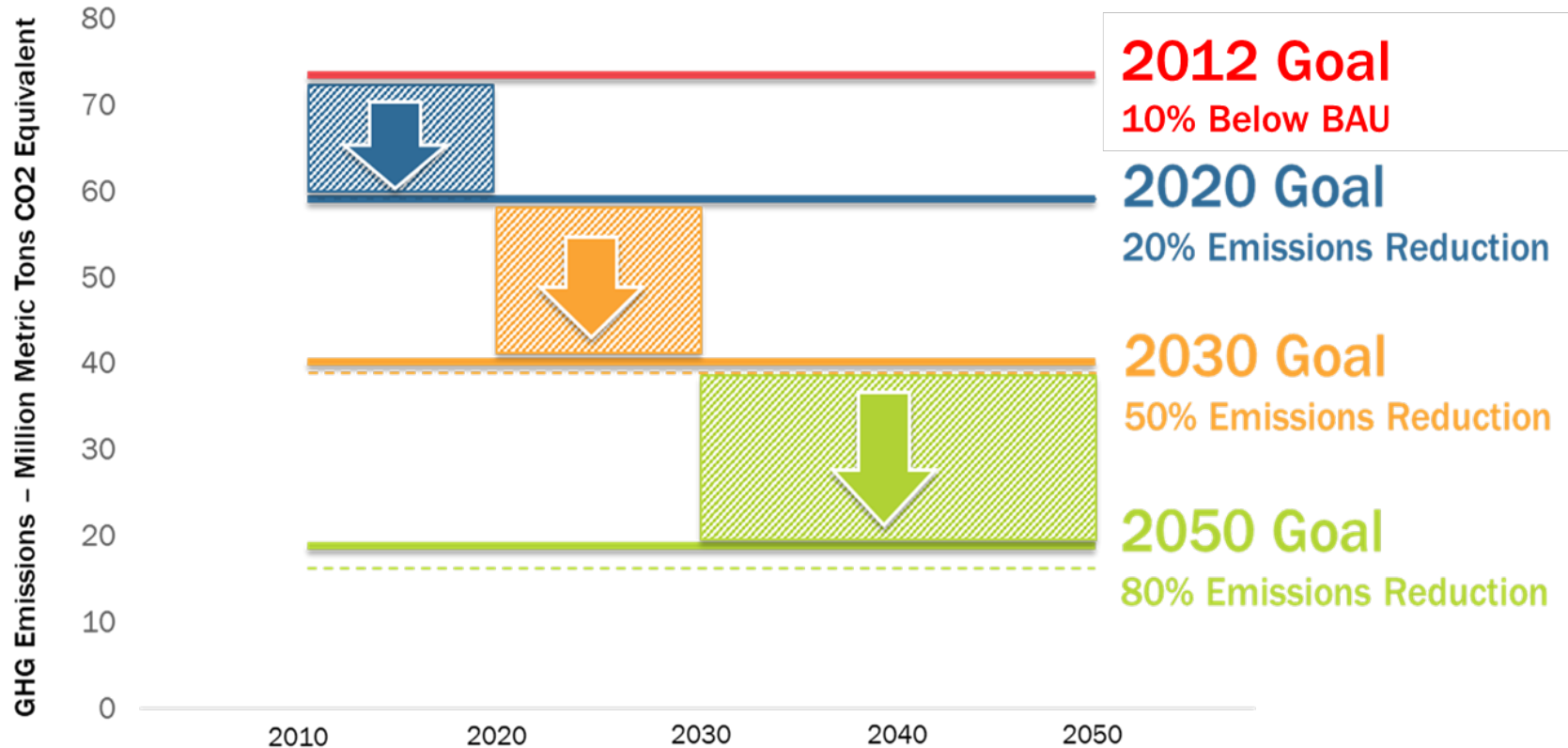


REGIONAL CLIMATE GOALS UPDATE

Maia Davis, COG Senior Environmental Planner

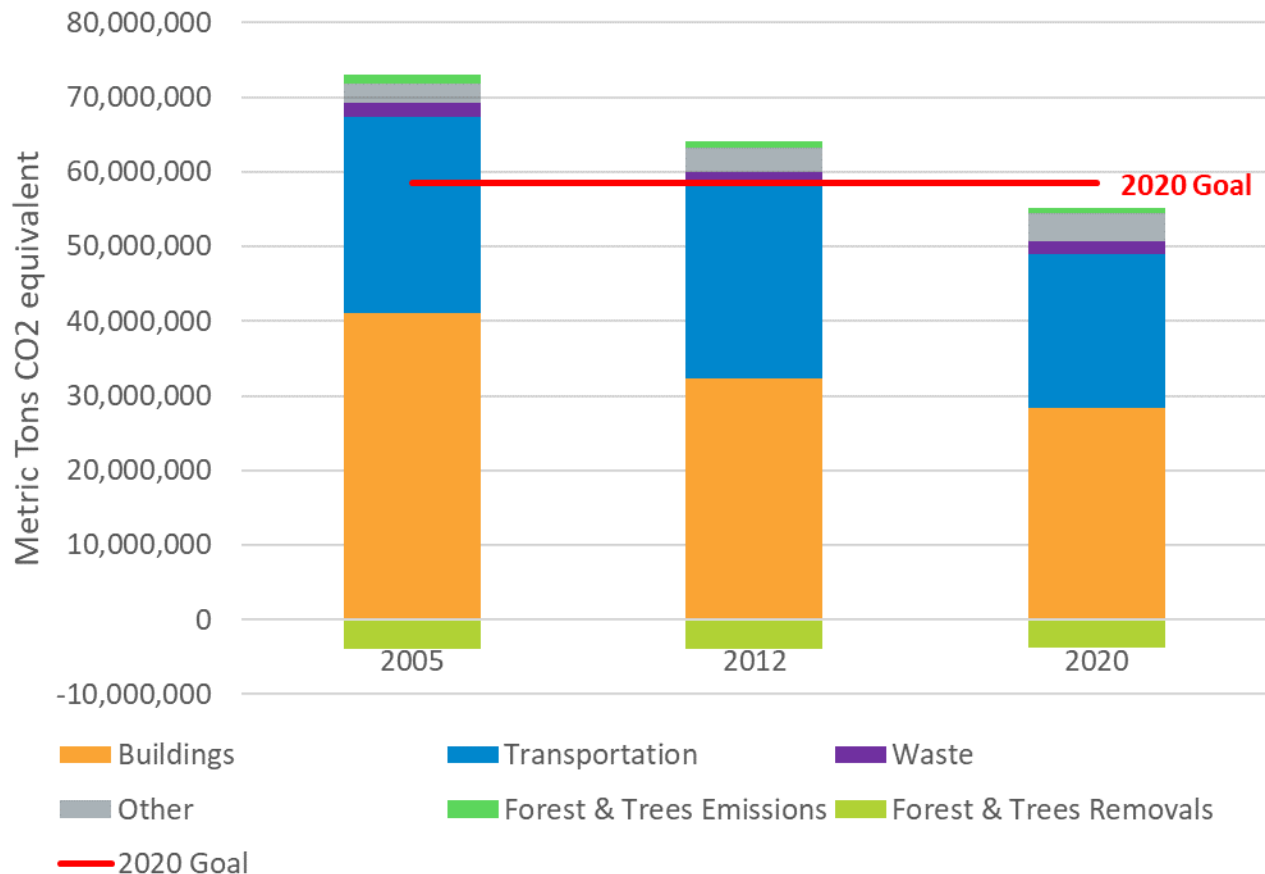
Transportation Planning Board Technical Committee
December 2, 2022

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*



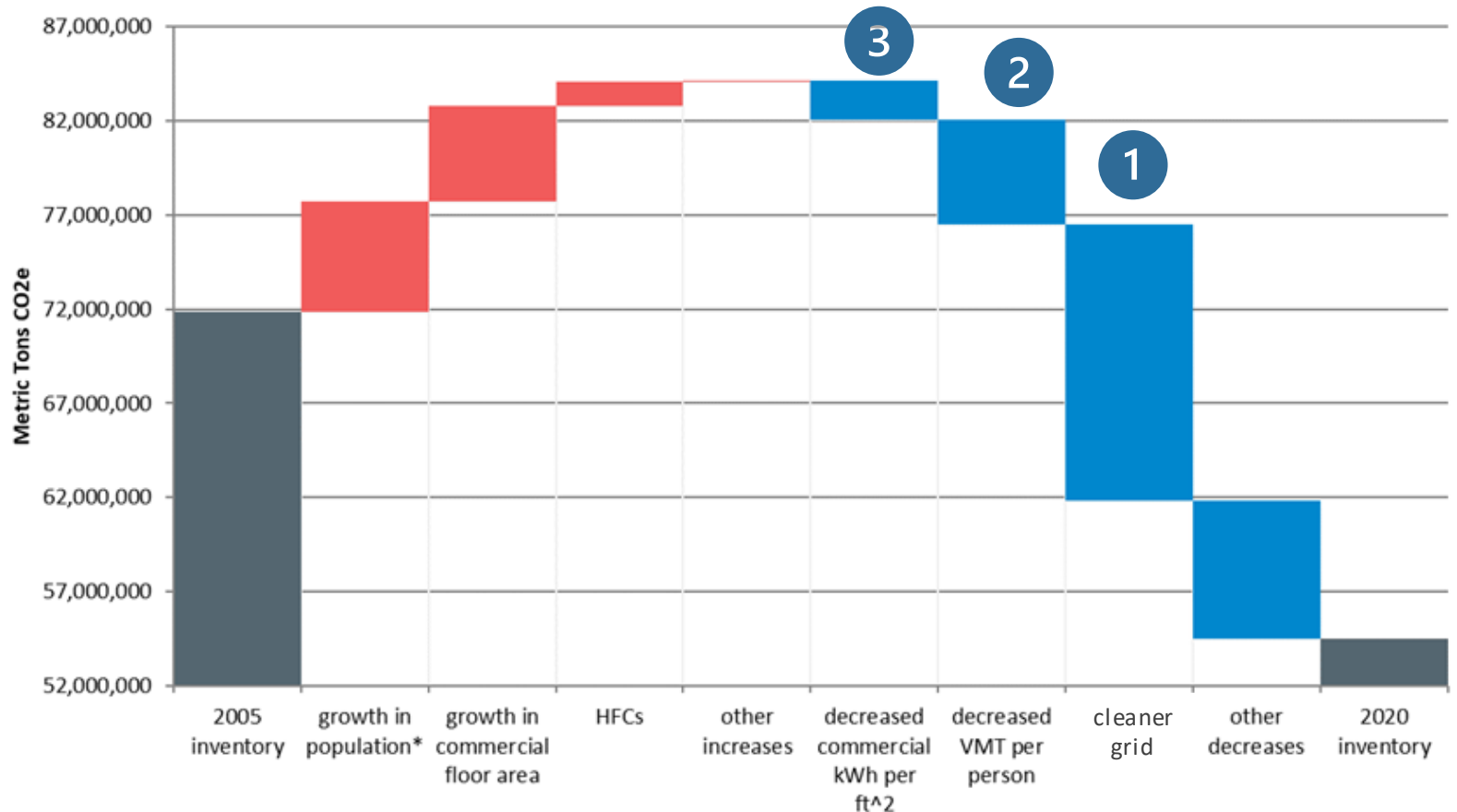
37


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

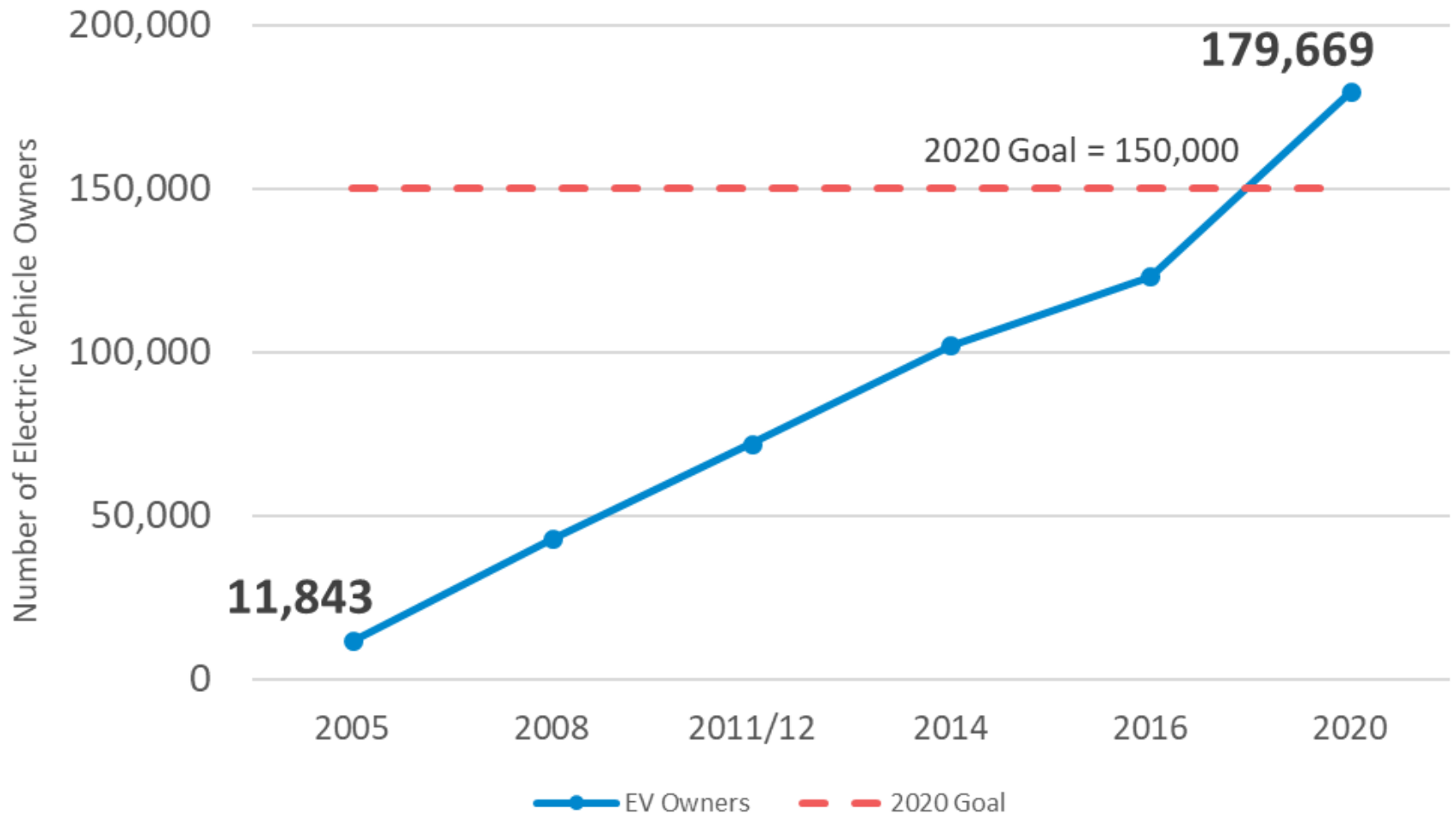
KEY PERFORMANCE INDICATORS

Transportation

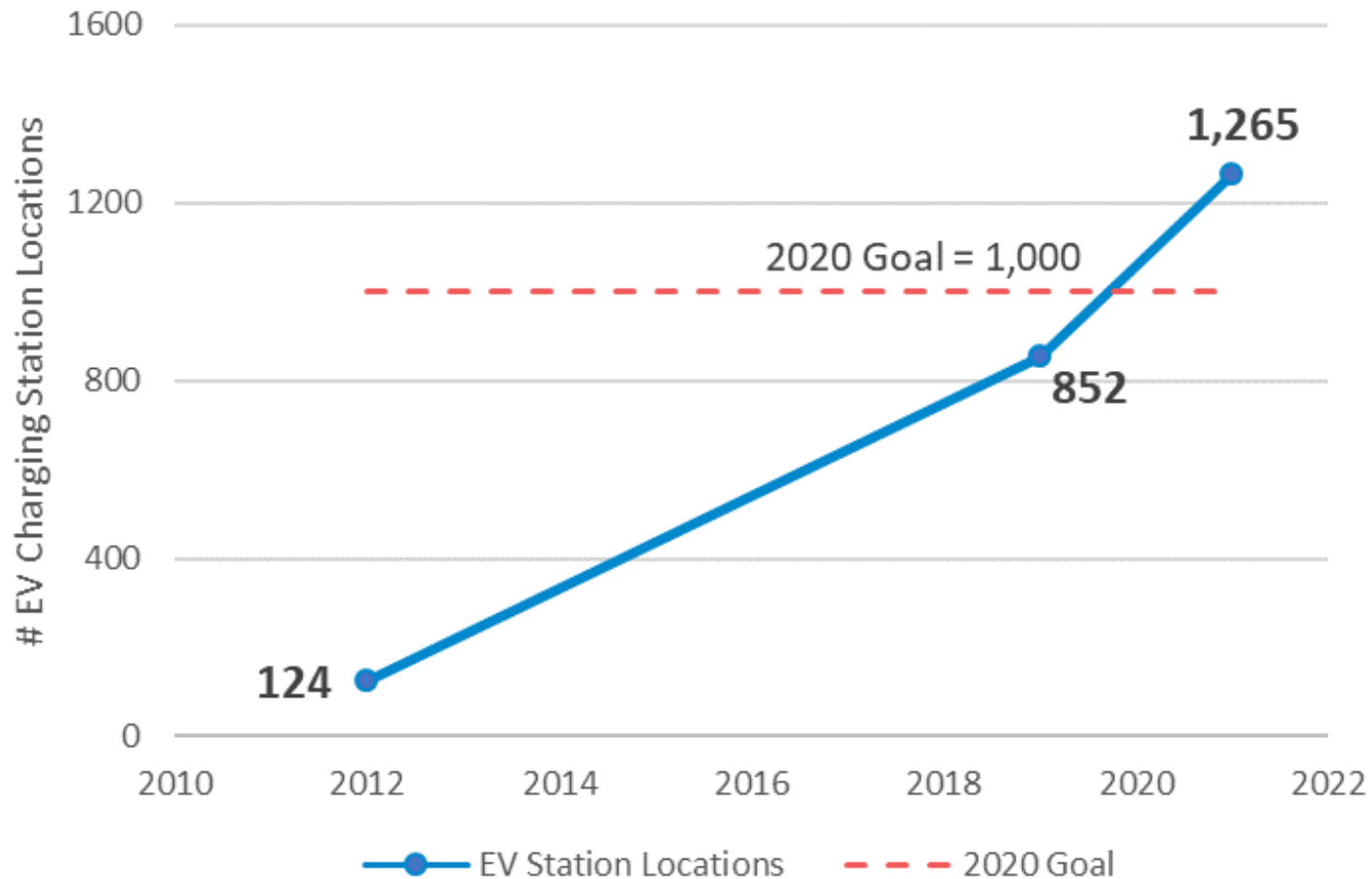


Metropolitan Washington
Council of Governments

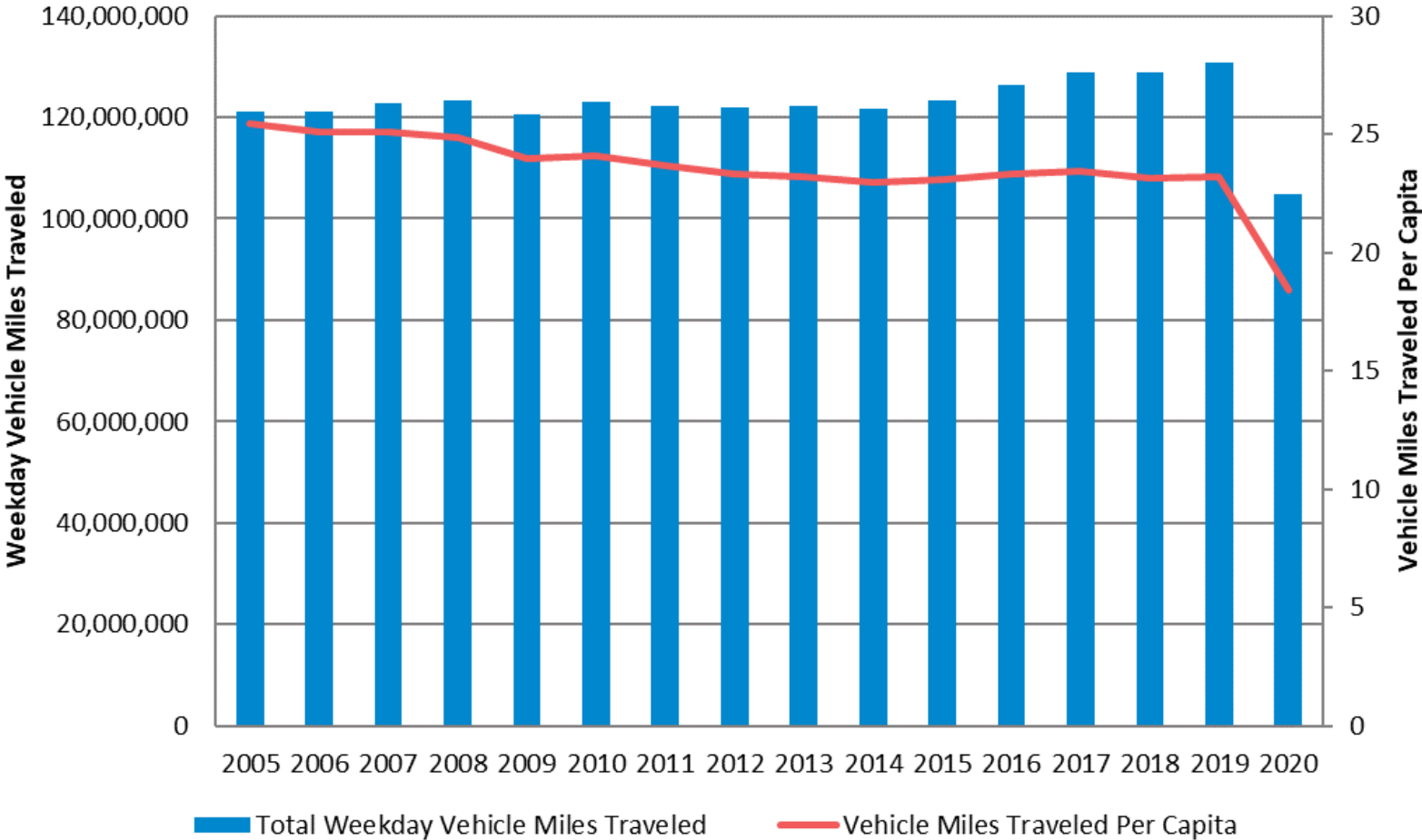
EV Ownership Trends



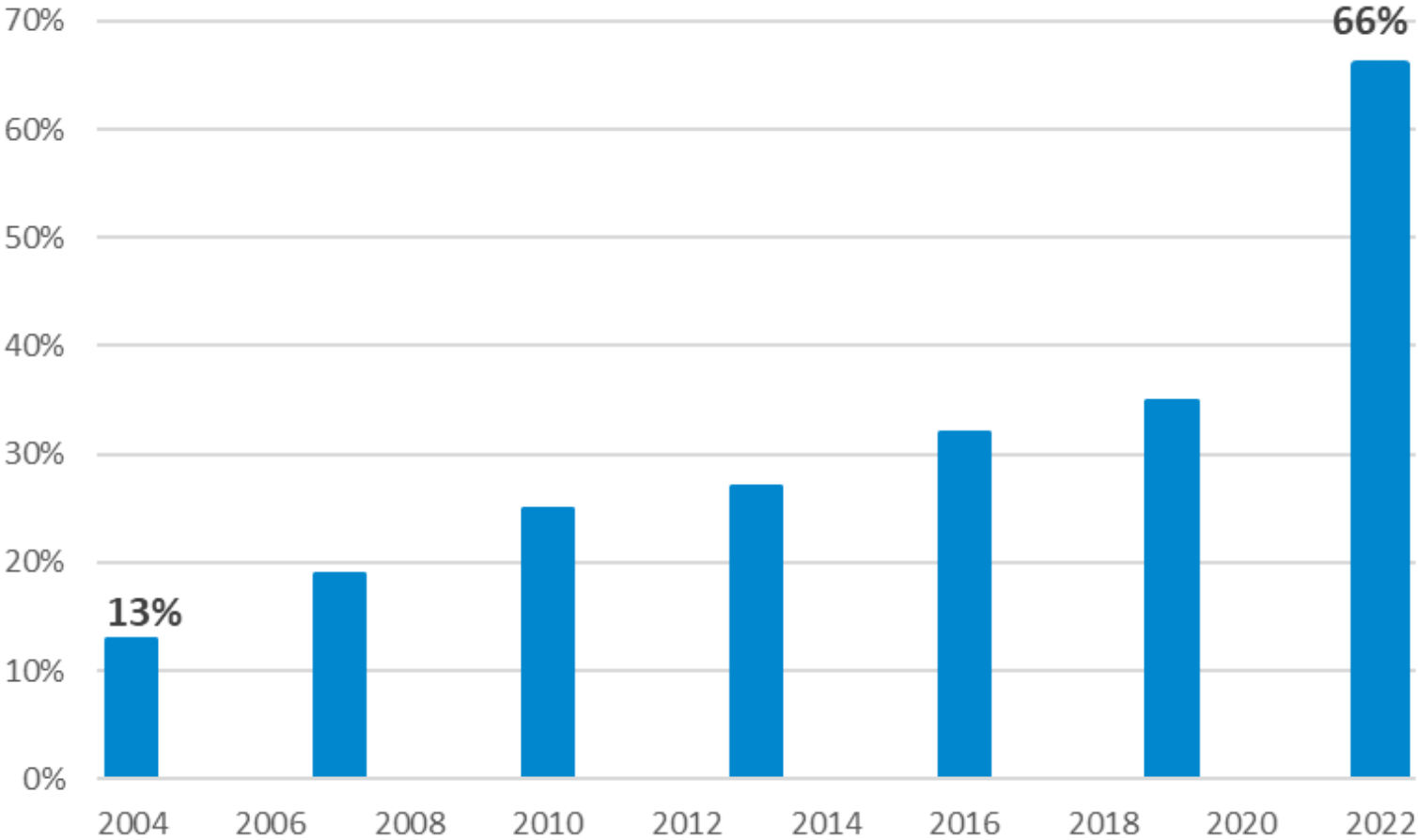
EV Charging Station Trends



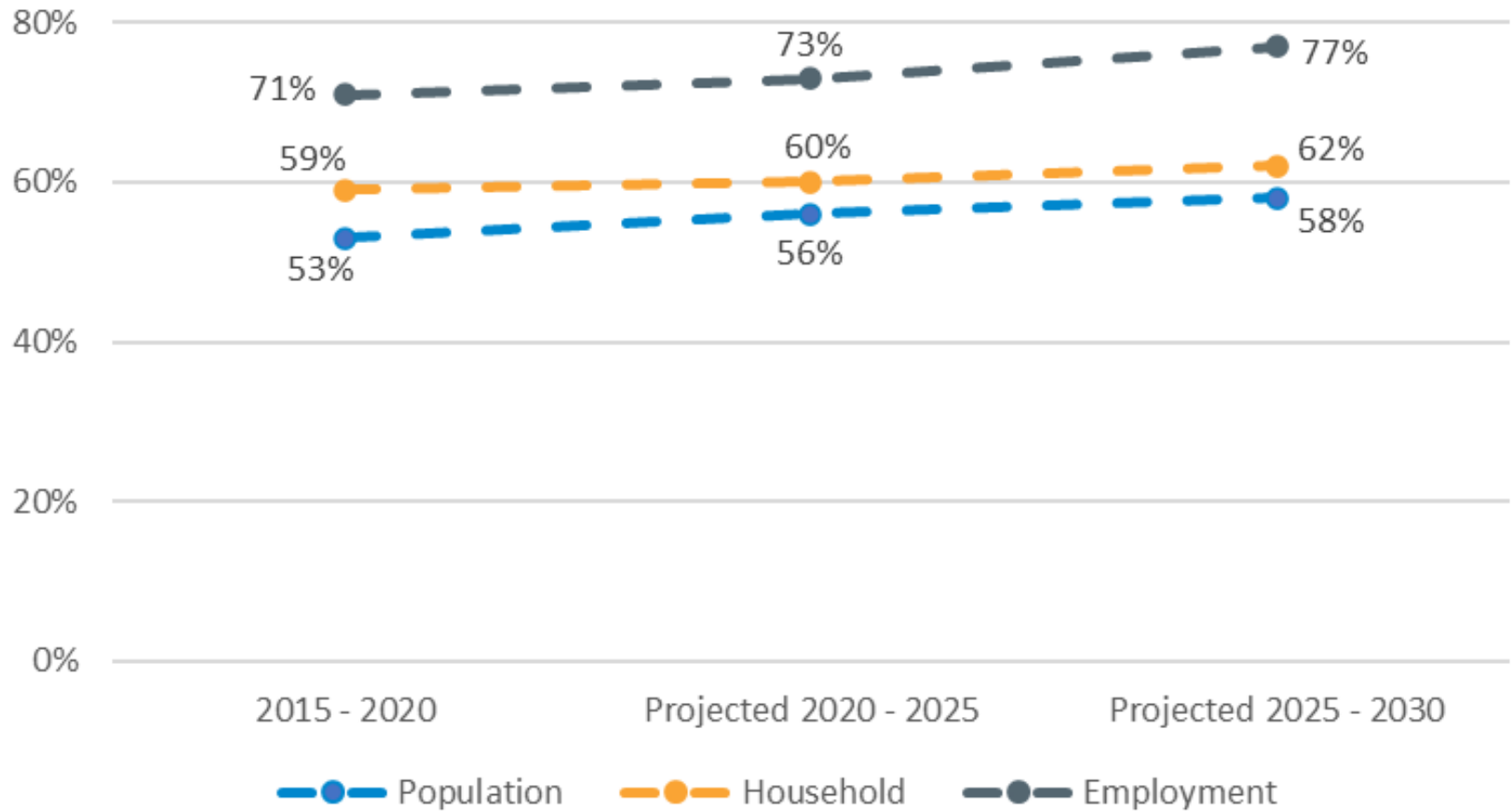
Vehicle Miles Traveled Trends



Telework Trends



% Growth in Activity Centers



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.

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