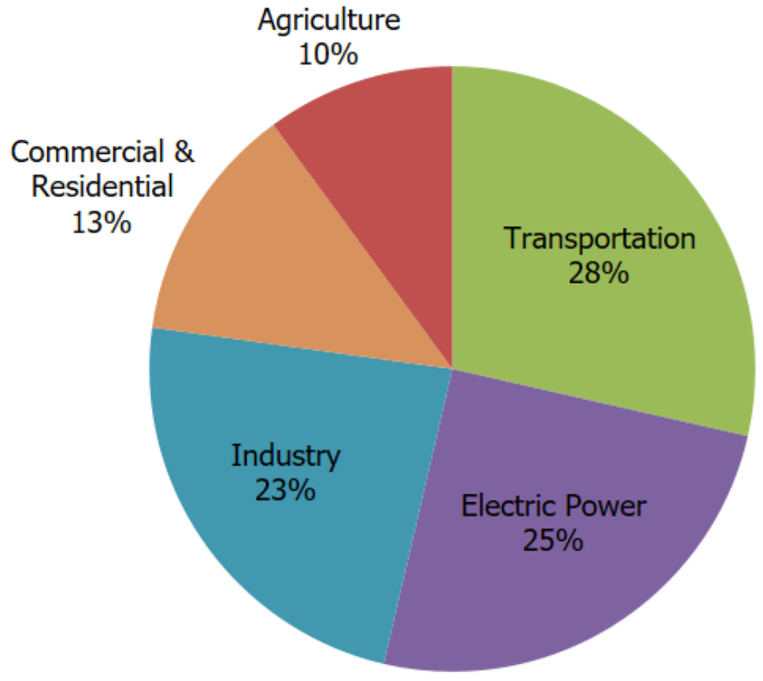
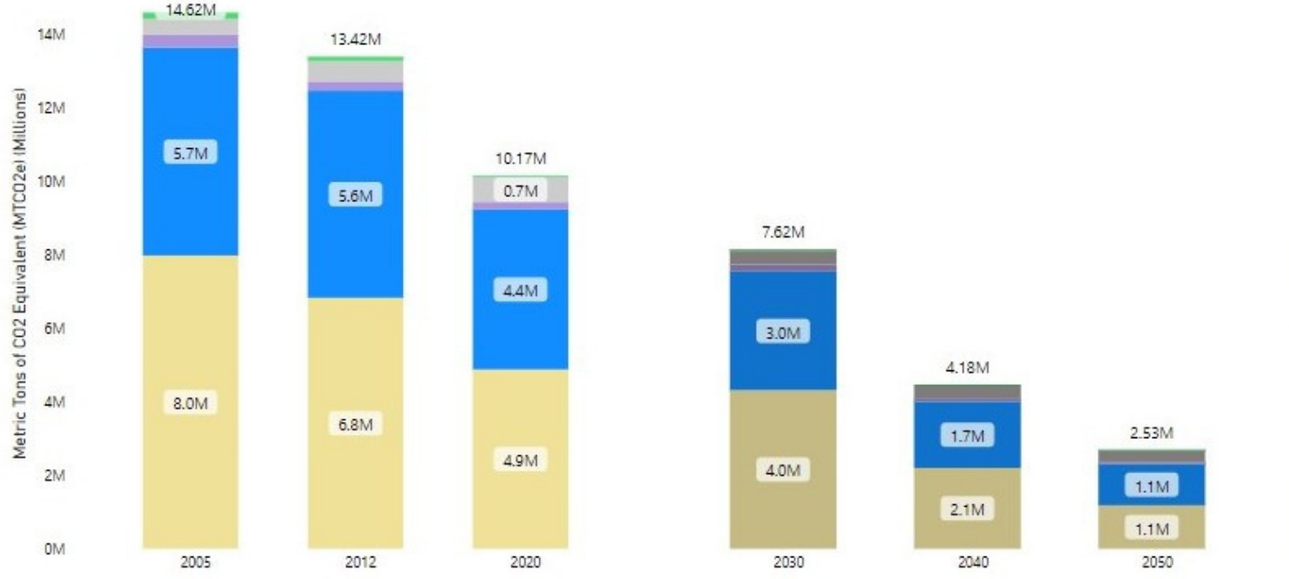
## Total U.S. Greenhouse Gas Emissions by Economic Sector in 2021




*Source: U.S. EPA Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2021*

## Fairfax County Greenhouse Gas Emissions with Future Scenarios





- The data depicted in this graphic shows the previous greenhouse gas inventories conducted by the Metropolitan Washington Council of Governments as well as potential future scenarios that would meet the regional goal of carbon neutrality by 2050. Fairfax County community-wide greenhouse gas (GHG) emissions decreased by 30% between 2005 and 2020, despite a 12% growth in population. This reflects strong and consistent effort across multiple sectors, especially increased energy efficiency and conservation in residential and commercial buildings, cleaner vehicles travelling fewer miles, and a greener electric grid.
- Scenario modeling determined that at least an 87% reduction in GHG emissions by 2050 was technically feasible, which explains why the 2050 goal specifies at least an 87% reduction in actual emissions. However, even with all strategies implemented by 2050, achieving carbon neutrality by 2050 likely will require some reliance on emerging technologies and carbon offsets.