



Maryland
Department of
the Environment

Maryland's 2020 GHG Inventory: Preliminary Results

Mitigation Working Group
March 15, 2022

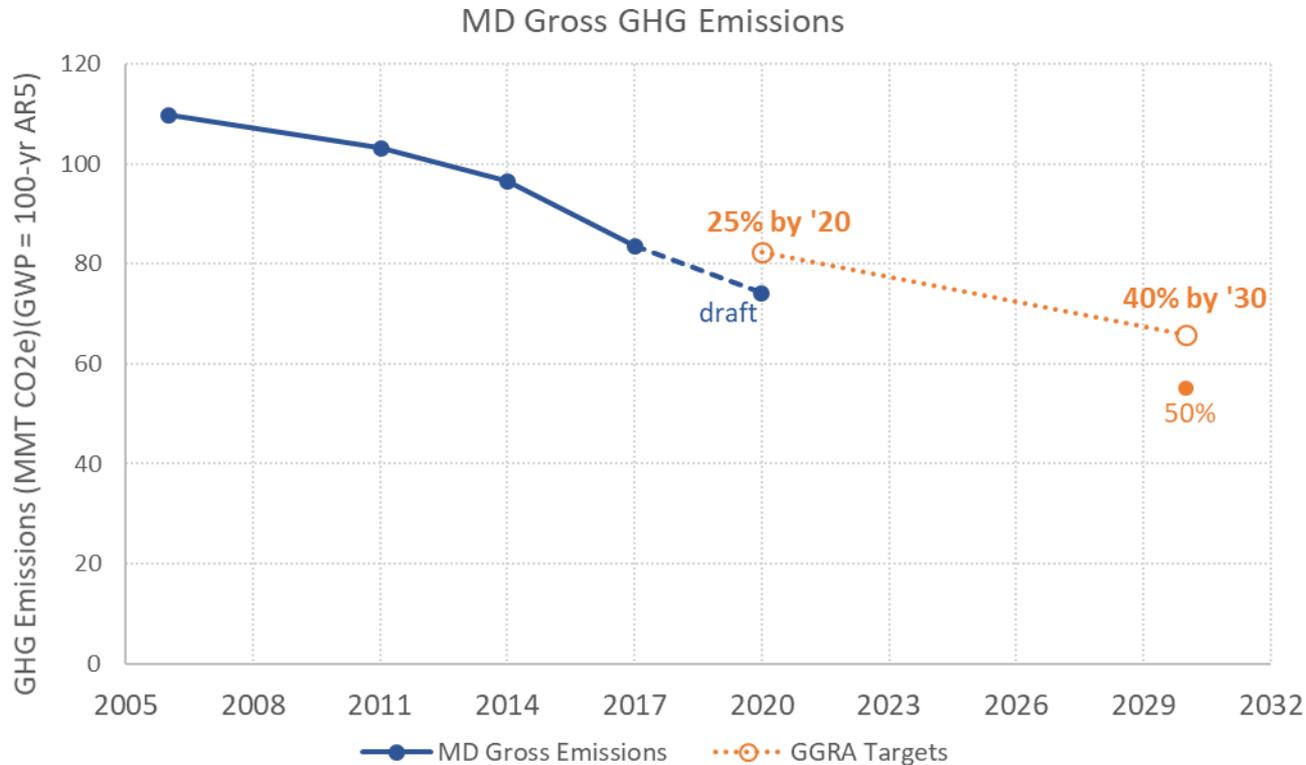


2020 GHG Inventory Status

- Final datasets will be available this Spring
 - Remaining datasets make up ~20% of inventory
 - Some 2019 & 2017 data is used in this presentation as placeholders to show estimated emissions in 2020
 - Data presented herein is ***preliminary***
- The 2020 inventory will be finalized this Summer



2020 GHG Inventory Preview



Statewide GHG Trend

- ~32% reduction in gross emissions, 2006-2020

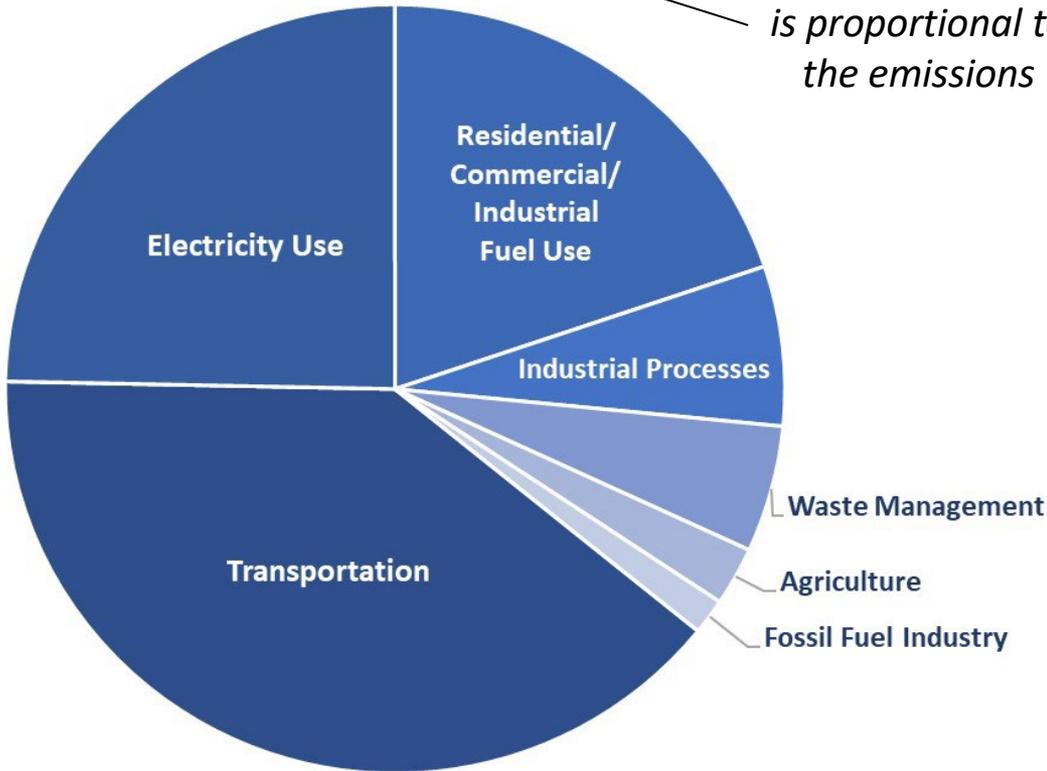


Source Contributions

Maryland GHG Emissions

By Sector, 2020 (draft)

Total (gross) = 74.2 MMT CO₂e

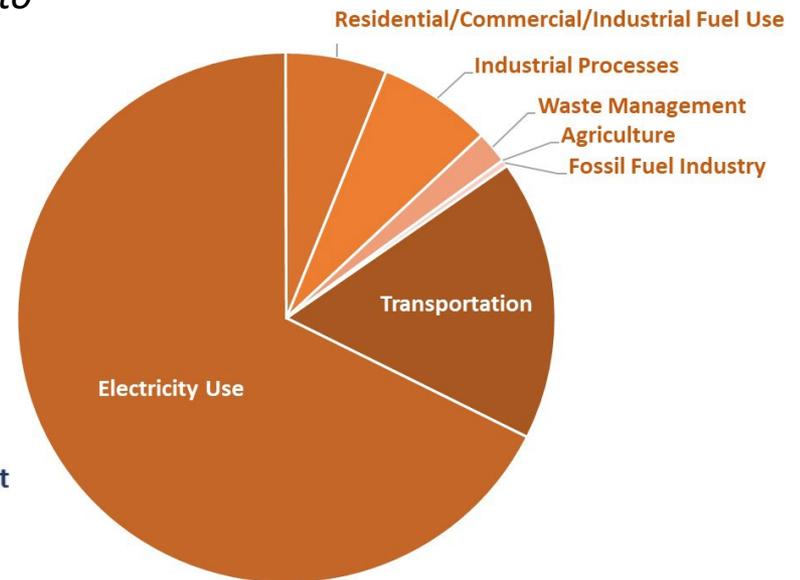


Area of the pies is proportional to the emissions

Maryland GHG Reductions

By Sector, 2006-2020

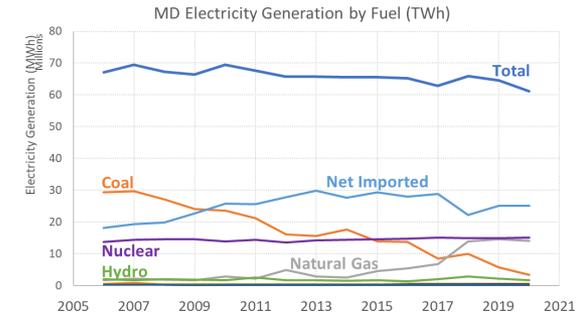
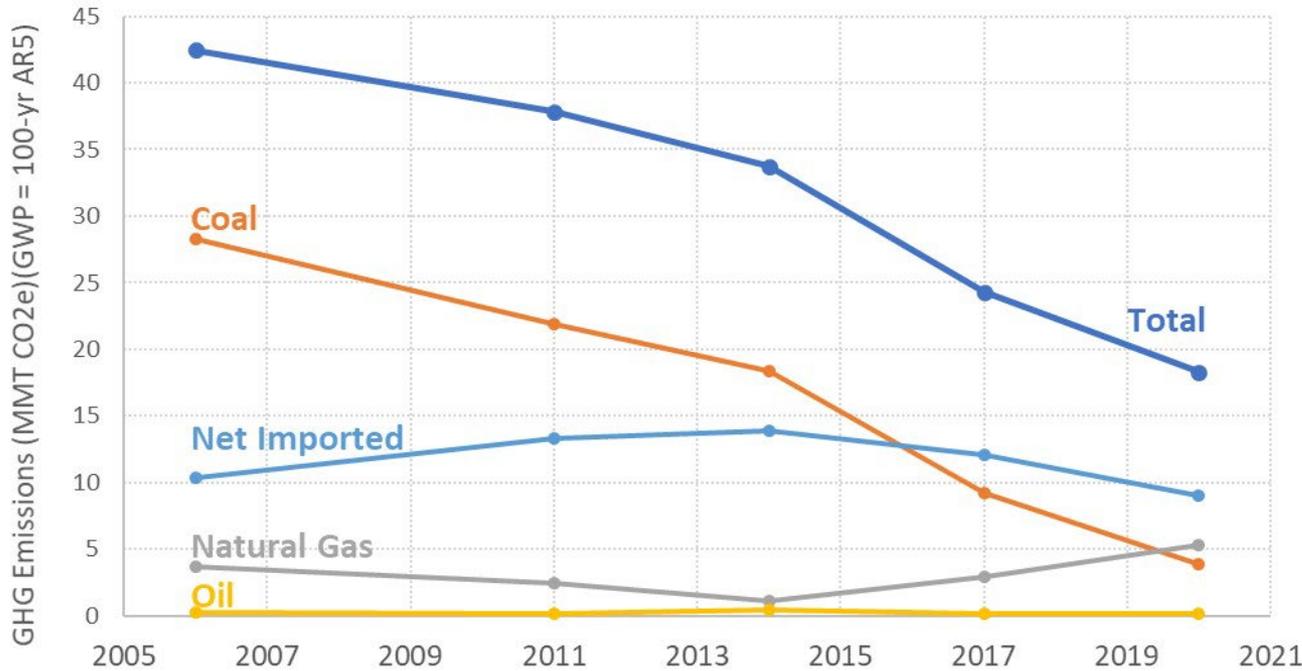
Total (gross) = 35.7 MMT CO₂e



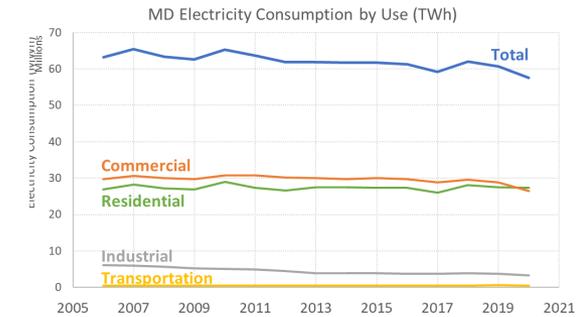


Electricity

MD Electricity Use GHG Emissions



<https://www.eia.gov/electricity/state/maryland/>

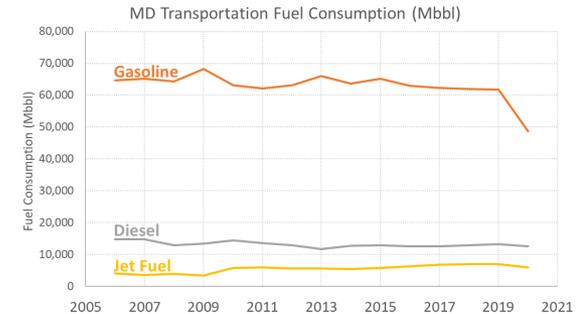
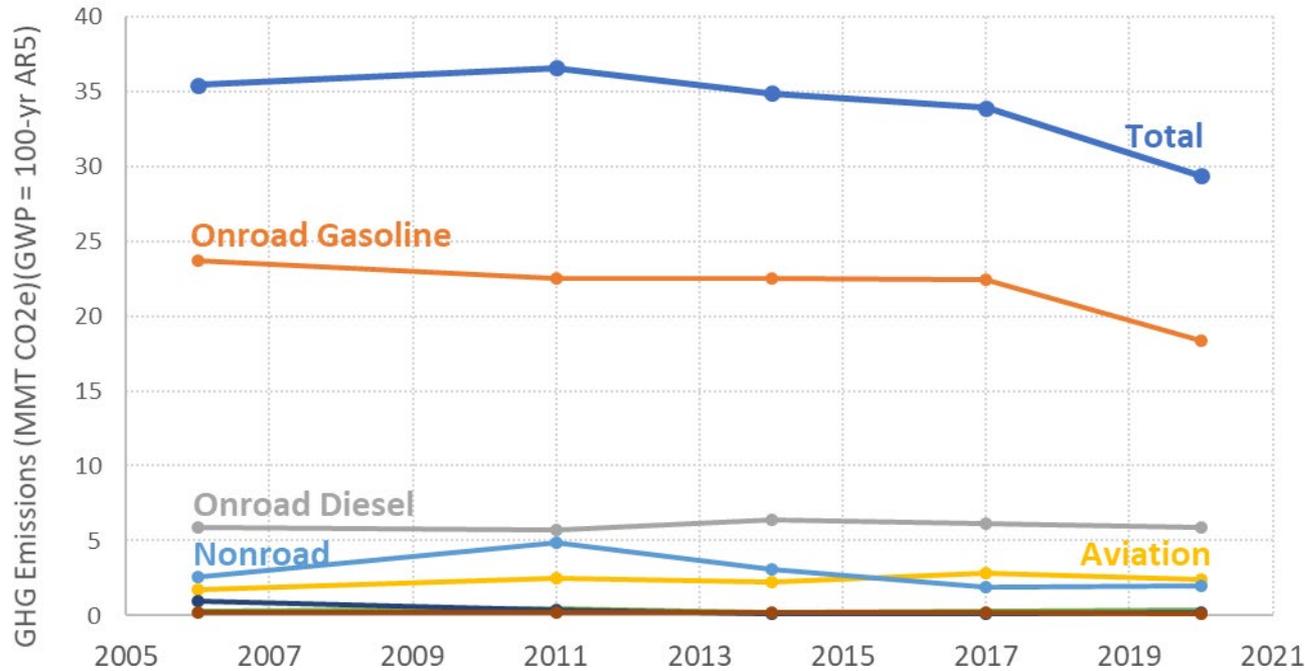


<https://www.eia.gov/electricity/state/maryland/>



Transportation

MD Transportation GHG Emissions



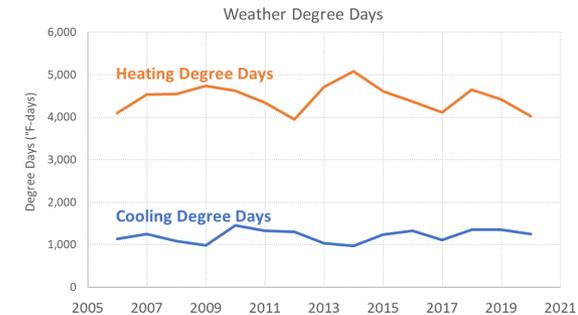
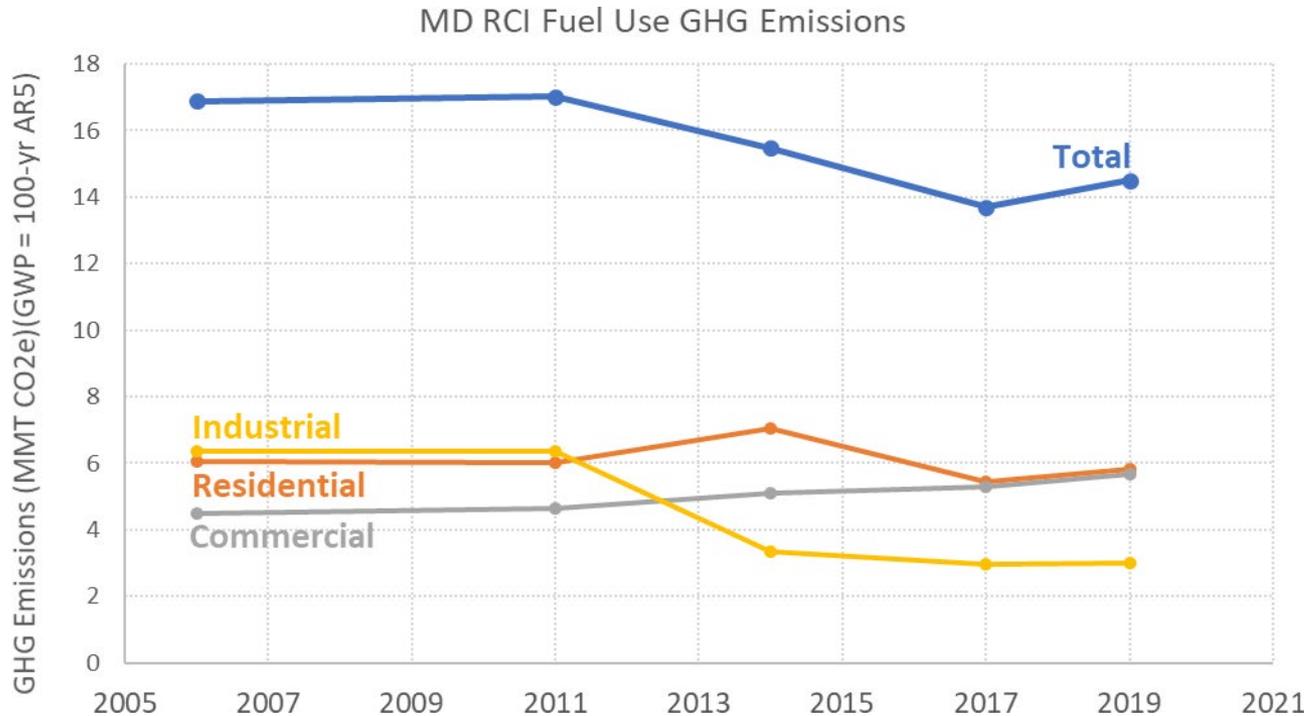
<https://www.eia.gov/state/seds/>

COVID Impact

- If we set on-road gasoline and aviation to pre-pandemic levels, then the ~32% reduction in statewide gross emissions becomes ~28%



Residential/Commercial/Industrial (RCI) Fuel Use



<https://www.ncdc.noaa.gov/cag/statewide/time-series>

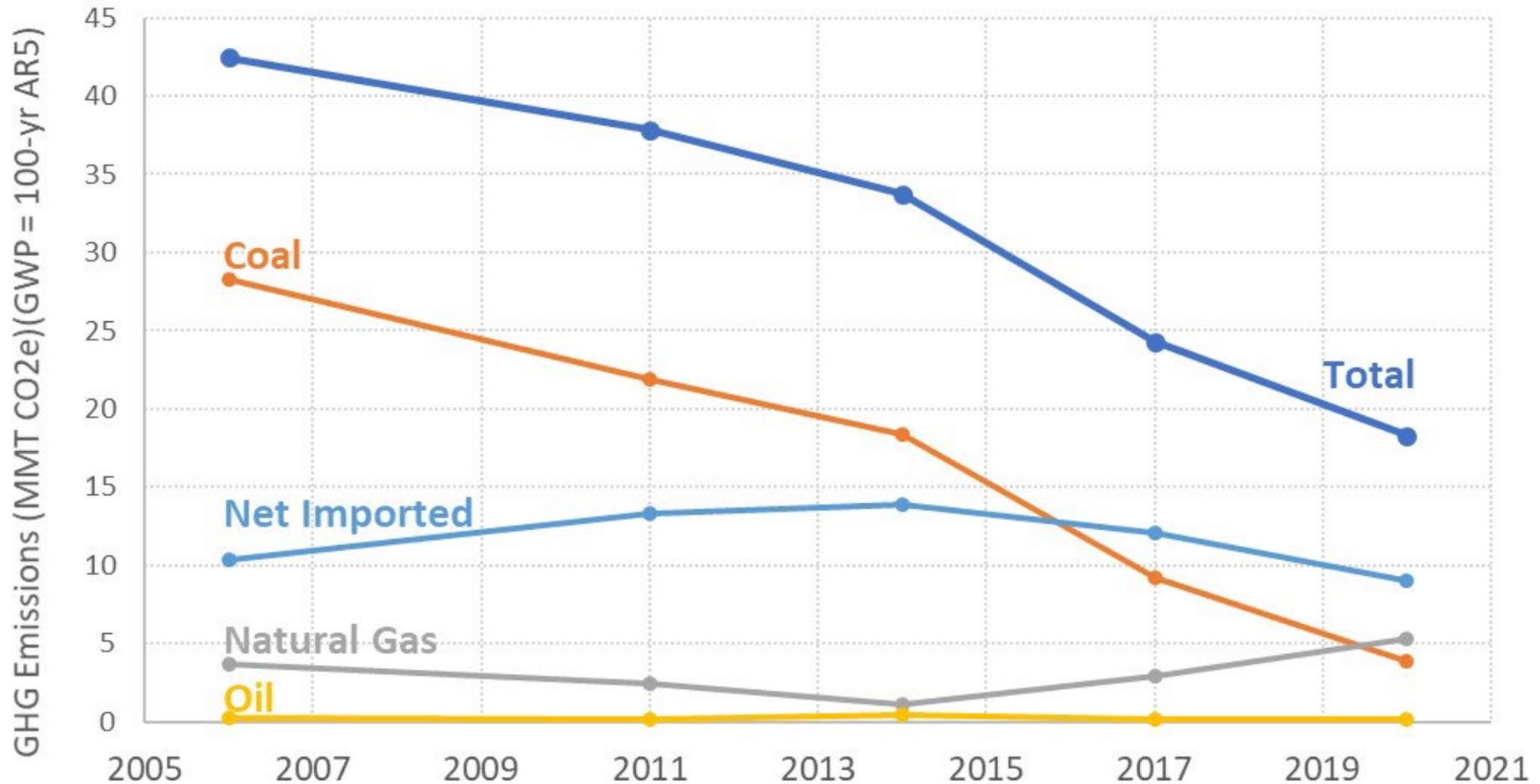
2019 Placeholder Data

- Conservative as 2020 was milder than 2019
- COVID impact – may see slight shift from commercial to residential



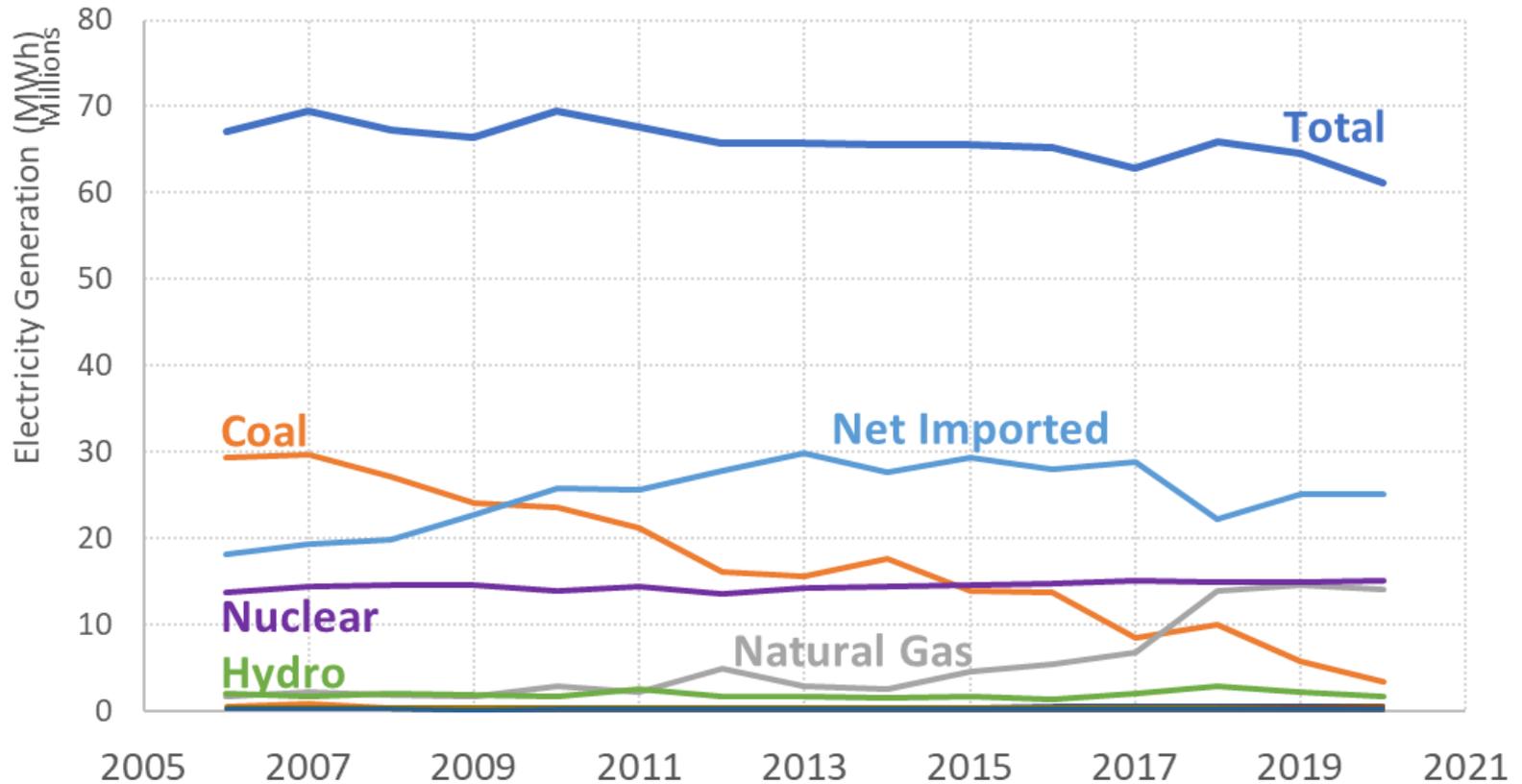
Full-size charts...

MD Electricity Use GHG Emissions





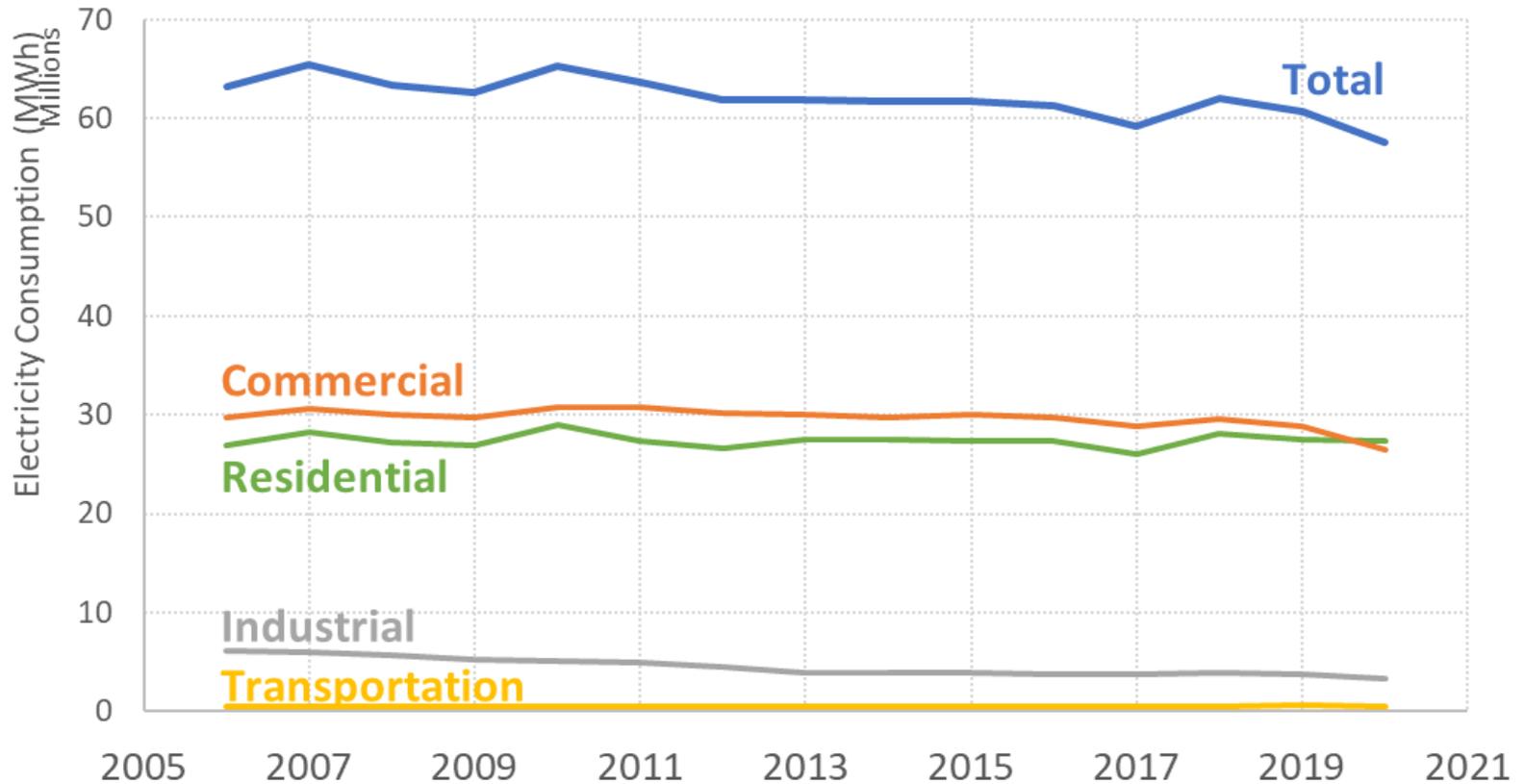
MD Electricity Generation by Fuel (TWh)



<https://www.eia.gov/electricity/state/maryland/>



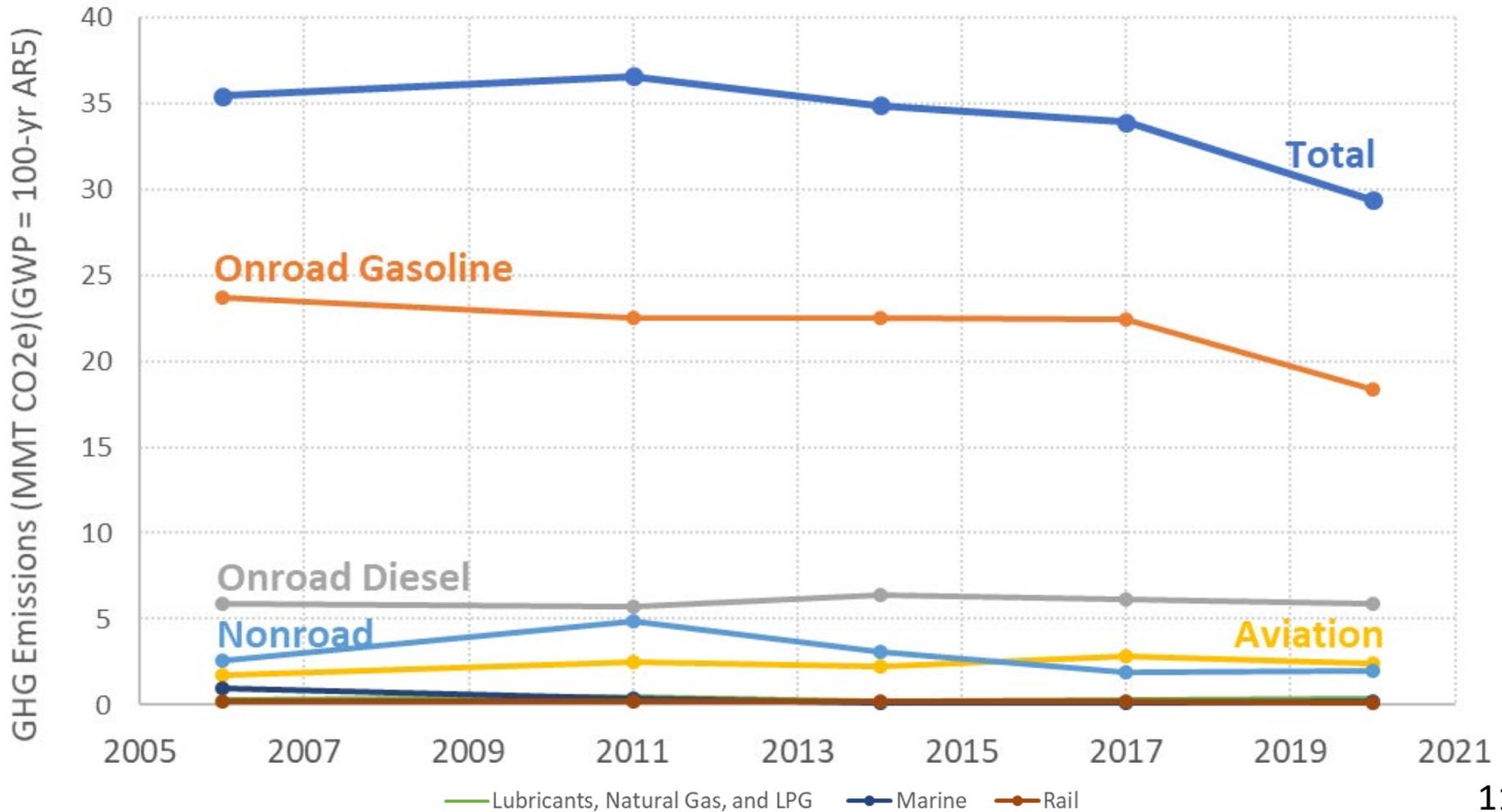
MD Electricity Consumption by Use (TWh)



<https://www.eia.gov/electricity/state/maryland/>

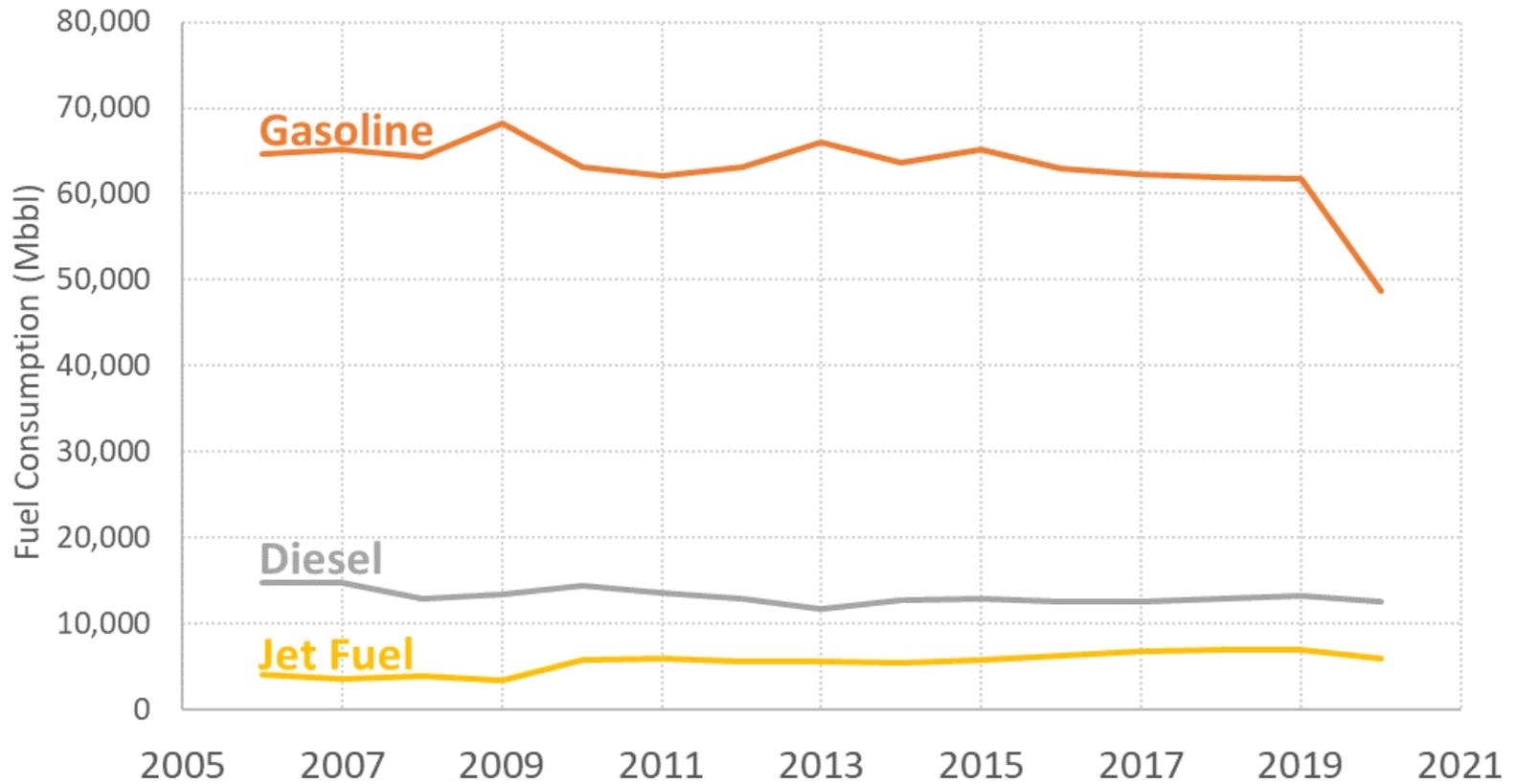


MD Transportation GHG Emissions





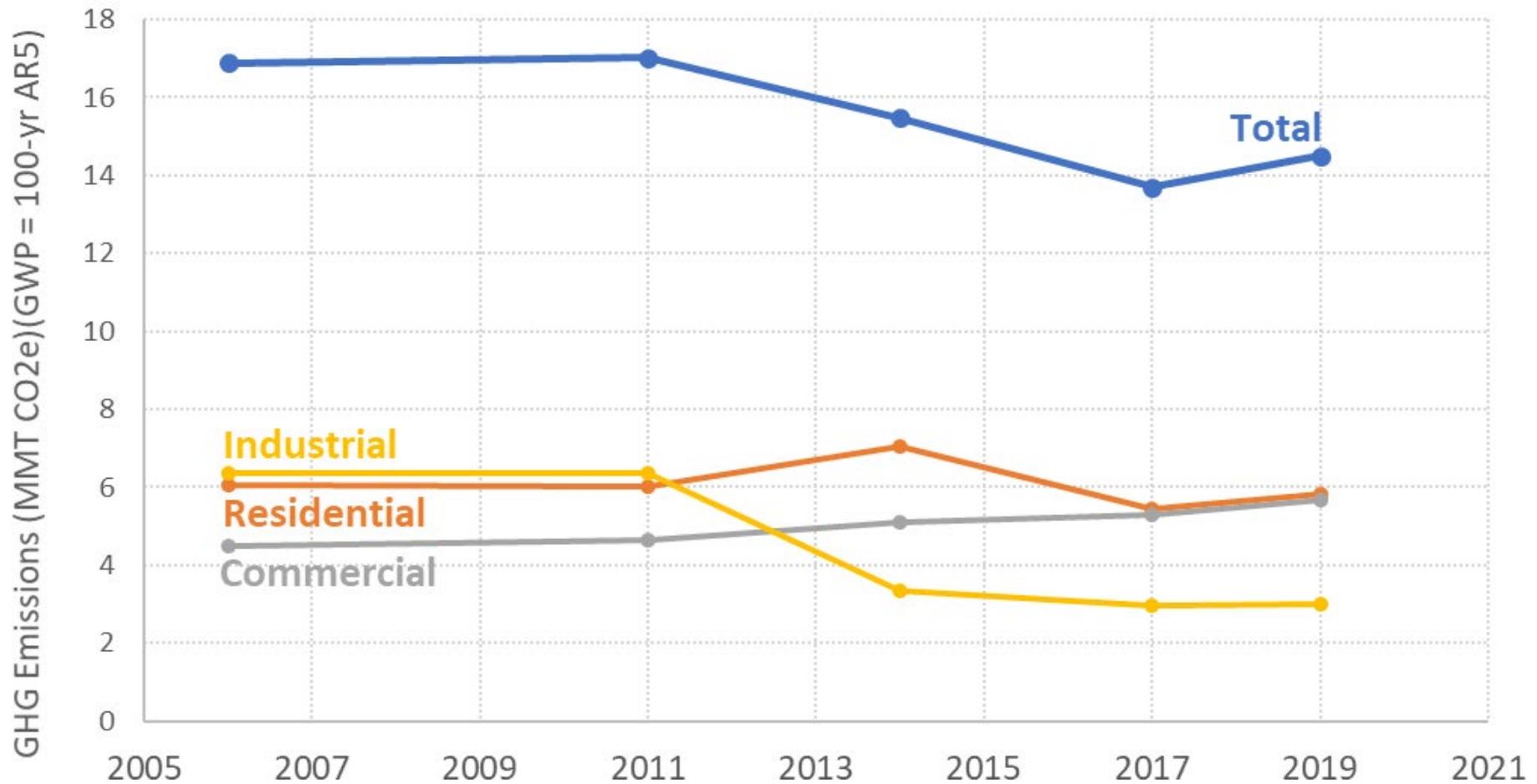
MD Transportation Fuel Consumption (Mbbbl)



<https://www.eia.gov/state/seds/>

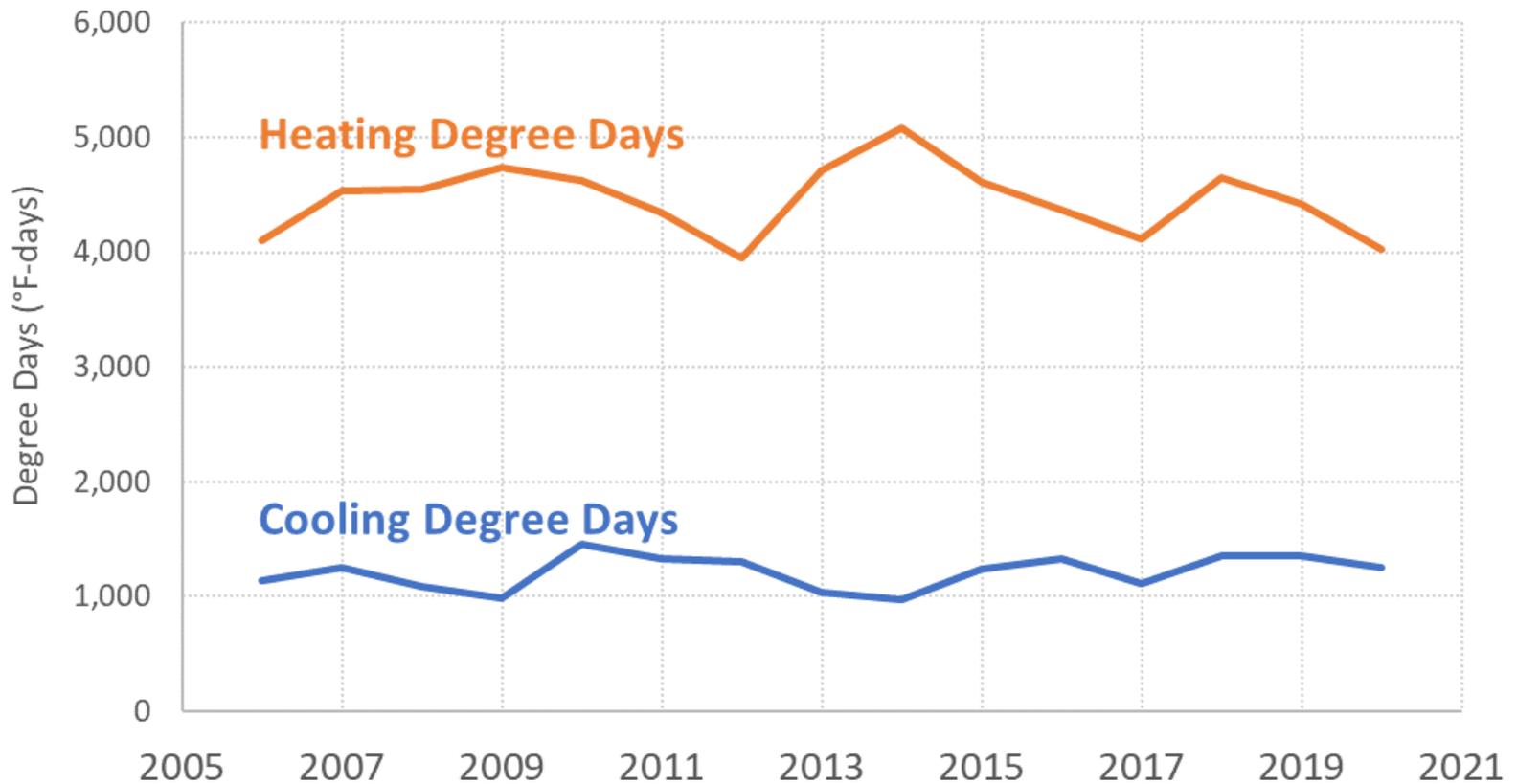


MD RCI Fuel Use GHG Emissions





Weather Degree Days



<https://www.ncdc.noaa.gov/cag/statewide/time-series>



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