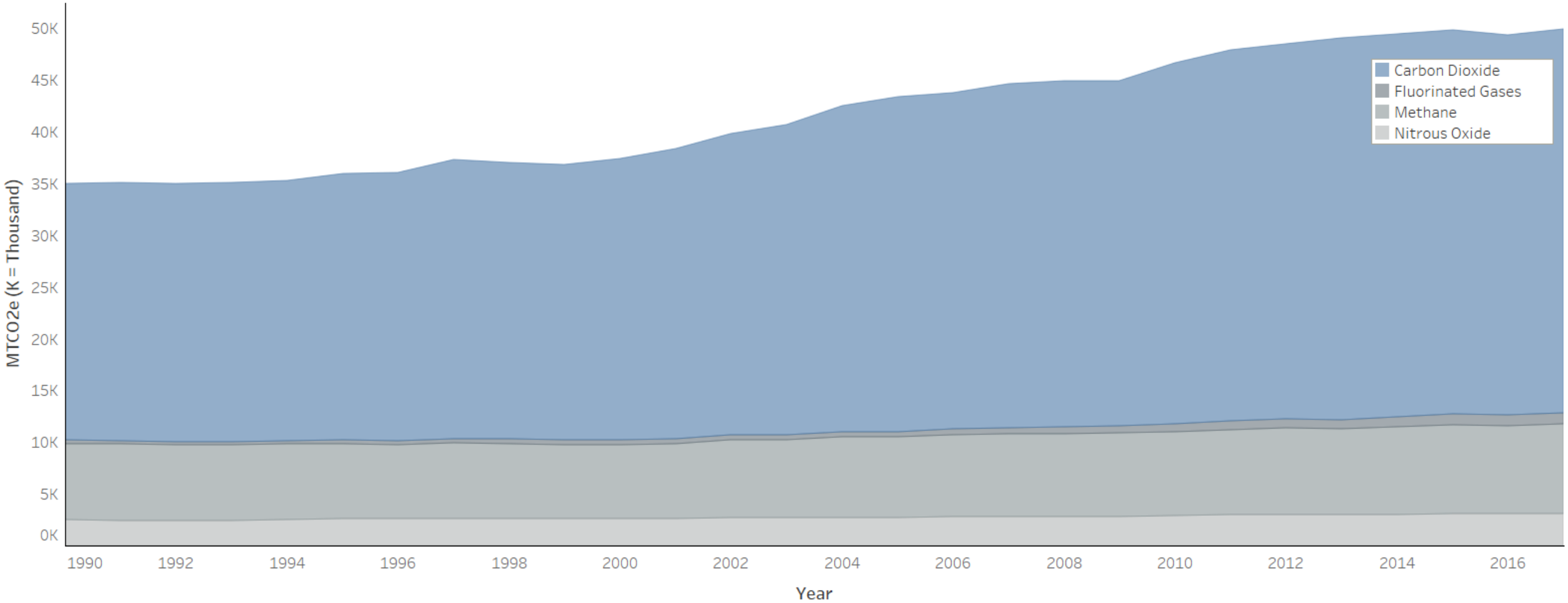
TARGETING CLIMATE CHANGE EFFORTS

Sam Loyd | January 2021

We Must Focus on Carbon Dioxide (CO2) Emissions Continuing to Climb:

Annual Greenhouse Gas (GHG) Emissions (1990-2017)

MTCO2e is a million metric tons of CO2 equivalent gas.
Global CO2 emissions are growing despite warnings, and CO2 is the primary GHG being emitted.

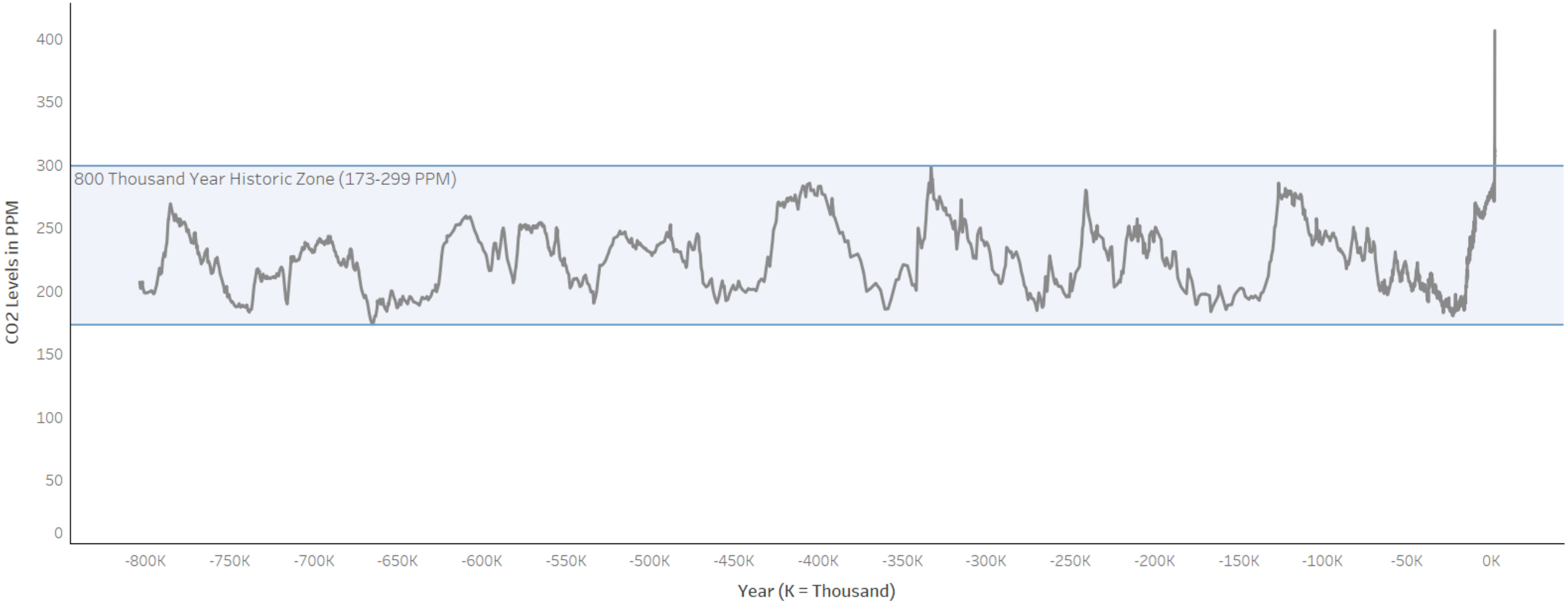


Data Source: Climate Watch (2018)

Climbing Well Beyond an 800 Thousand Year Historic Zone:

Annual Average of Atmospheric Carbon Dioxide (CO2) Levels in Parts Per Million (PPM)

Until 1905, Earth's CO2 levels had not exceeded 299 PPM going back over 800,000 years.
By 2017, the trend had continued to climb and exceeded that mark by over 107 PPM.

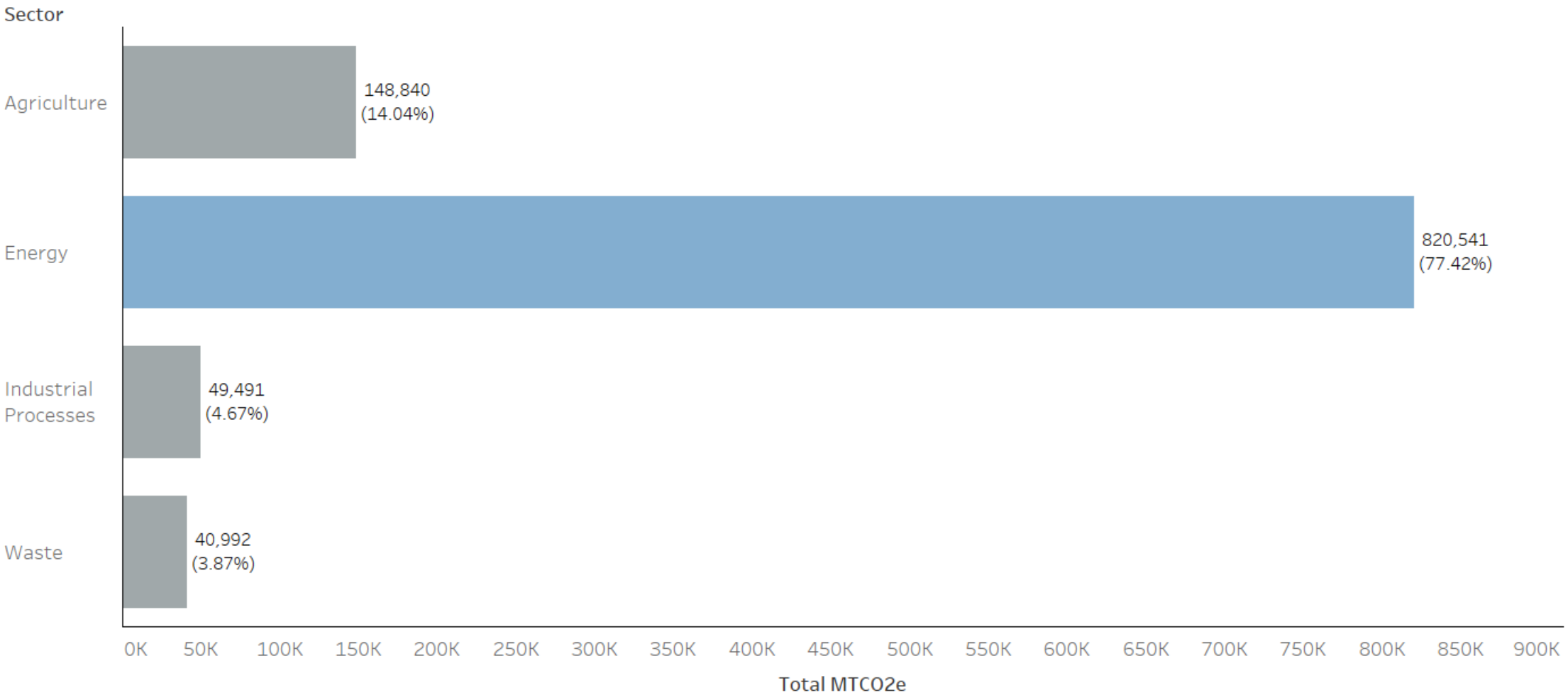


Data Source: Our World in Data using data from NOA/ESRL (2018)

We Also Need to Focus on the Energy Sector:

Total CO2 Levels Emitted by Sector Including Percent of Total in Parenthesis (1990-2017)

The engergy sector releases far more C02 than any other sector.
It accounts for over 77% of all C02 emitted. It deserves a similar level of attention.

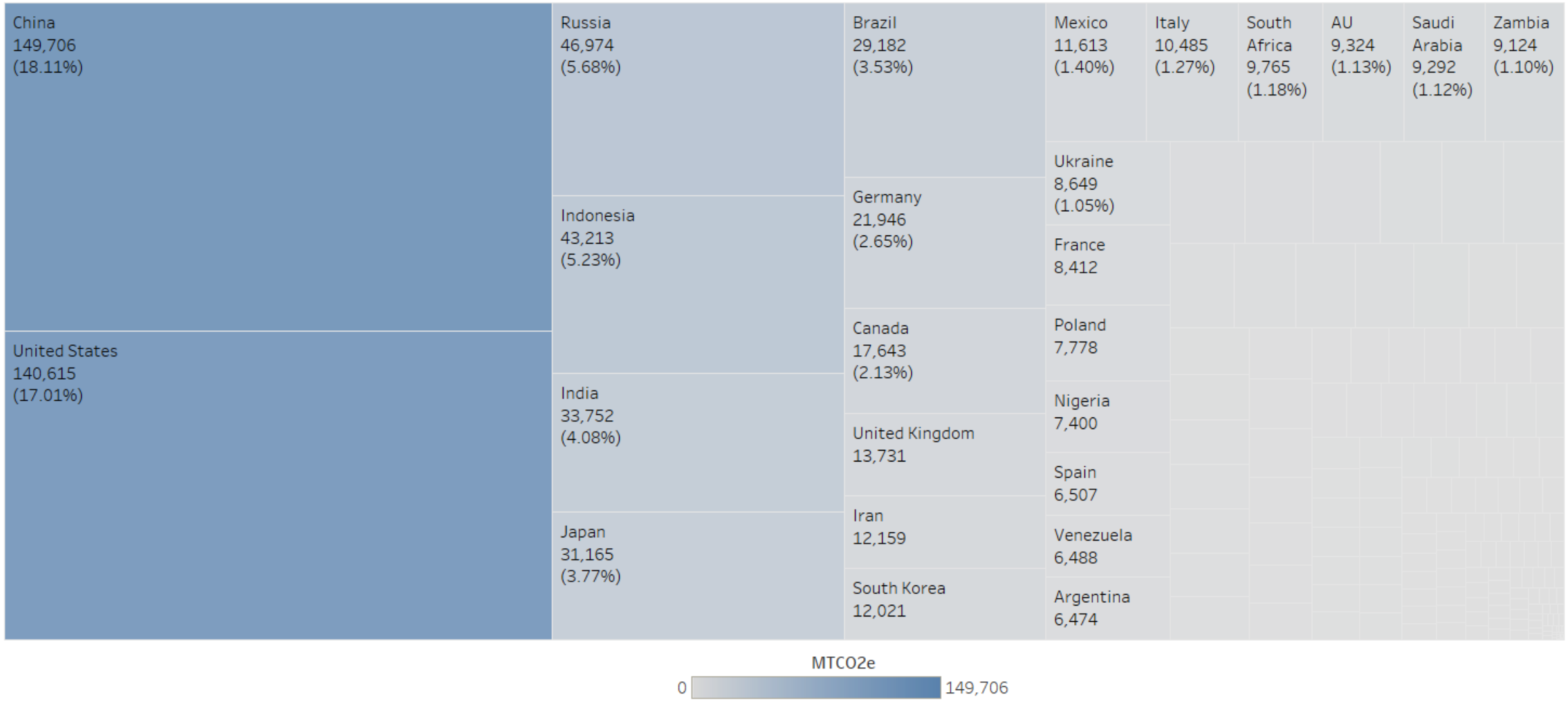


Data Source: Climate Watch (2018)

Two Nations Stand Out for Targeting Climate Efforts:

C02 Emission Totals Indicated by Size and Color for Each Nation in MTCO2e (1990-2017)

China and the United States are the two largest CO2 emitting nations jointly accounting for over 35%.

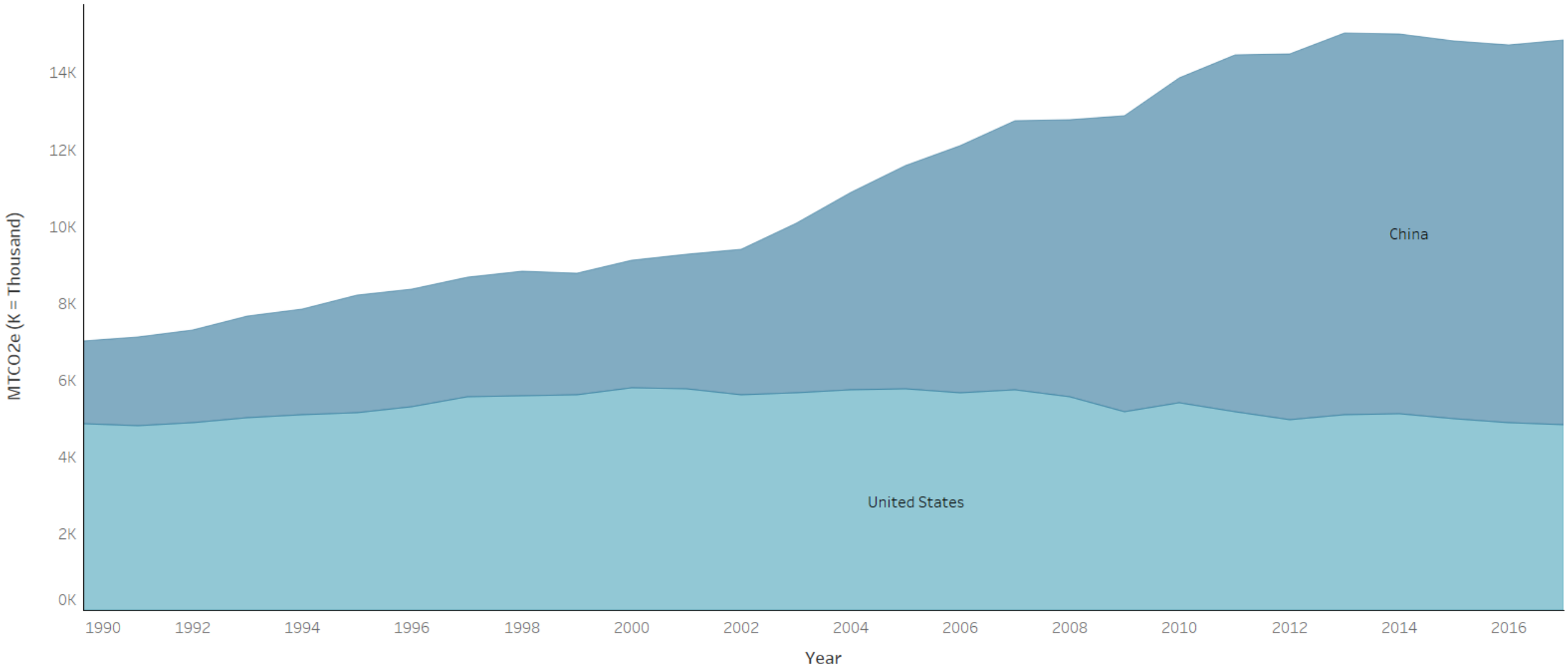


Data Source:Climate Watch (2018)

Trending Indicates That China Is a Huge Problem Going Forward:

Total Annual CO2 Emissions in MTCO2e (1990-2017)

China's total CO2 emissios are increasing at an alarming rate!



Evaluating Two Different Problems That These Nations Pose:

Comparing China and the United States Annual Per Capita CO2 Emissions (1990-2017)

TCO2e are metric tons of CO2 equivalent gas. Total emission measures ignore the population differences.
China's CO2 emissions per capita grow while the United Sates slowly improves from a much worse start.