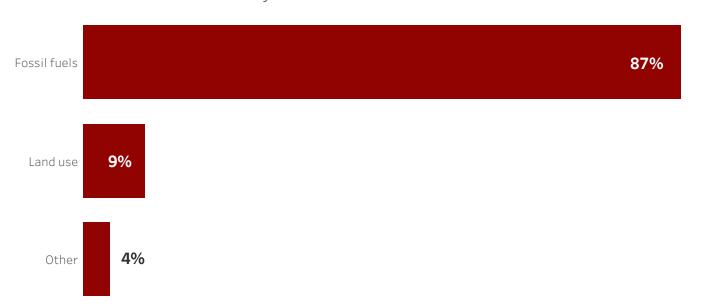


Carbon dioxide emissions by source

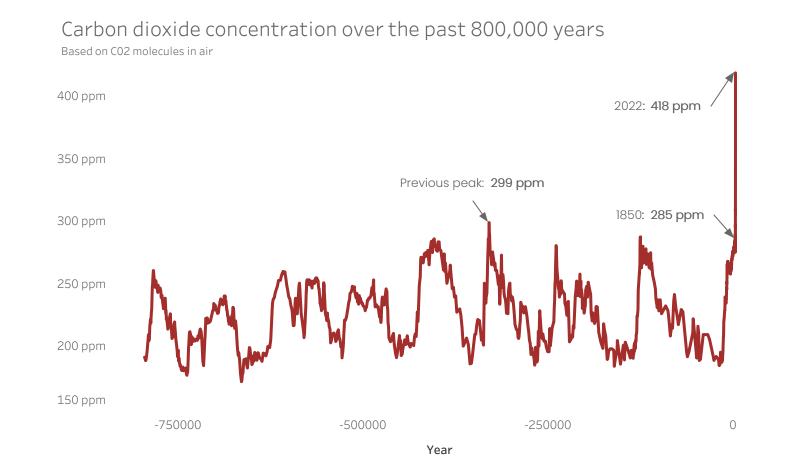


The driving forces behind the rise of CO2 emissions, accounting for over 70% of total emissions, are the electricity, heat and transportation industries fueled by the consumption of non-renewable fossil fuels such as oil, natural gas, and coal.

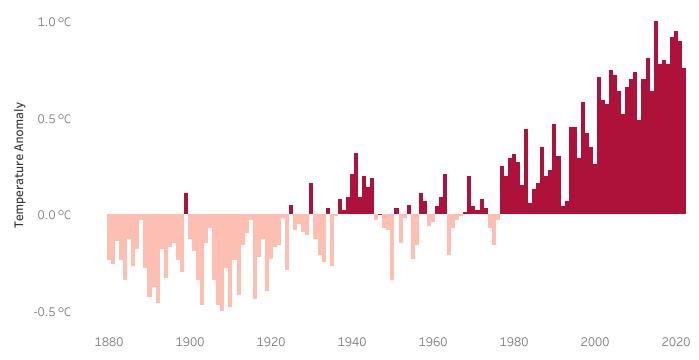
With the increasing demand for global travel and technology, unless alternative energy sources are embraced, CO2 emissions will continue to rise in correlation to these industries.

Scientific studies of ice cores in Antarctica reveal a shocking trend of CO2 concentration levels over the past 800,000 years. Measured in parts per million (ppm), the number of CO2 molecules per million air particles remained below 300 ppm for nearly a million years.

However, with the advent of the "technological era" in the mid-19th century and increased consumption of fossil fuels, CO2 levels skyrocketed and have been continuously increasing every year, currently standing at over 100 ppm higher than pre-human levels.



Annual anomalies in global surface temperature from 1880 to 2021 Based on temperature difference compared to 20th century average 1.0 °C



The trend of rising surface temperatures, driven by the buildup of greenhouse gases in the atmosphere, is evident in the analysis of the Earth's surface temperatures. With no year since 1980 falling below the average temperature of the 20th century.

Temperatures are now approaching a 1 degree Celsius increase compared to the previous century's average, emphasizing the pressing issue of climate change.