

Carbon Dioxide Emissions of the World

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Nov 07





Introduction

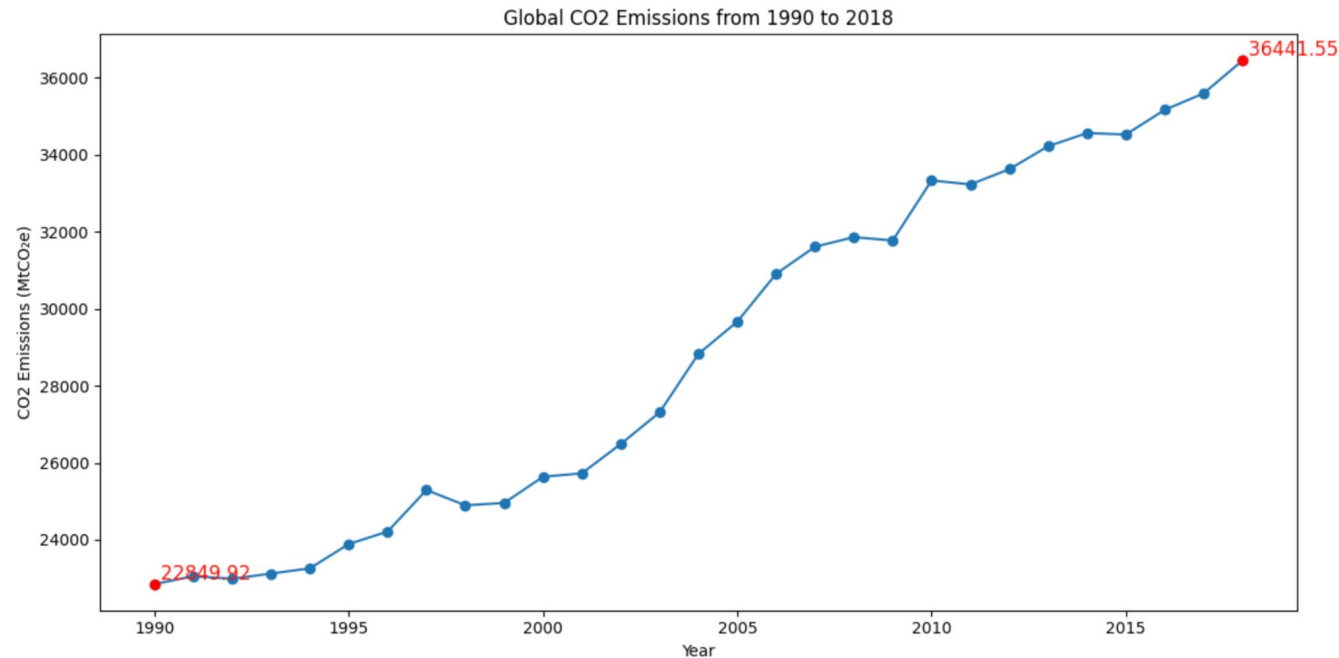
- Carbon dioxide: primary contributor to climate change
- Produced from burning fossil fuels for energy and transportation, deforestation, and industrial processes
- **Questions:** What trends in CO₂ emissions have been observed globally and in different countries over the past decades?



Data

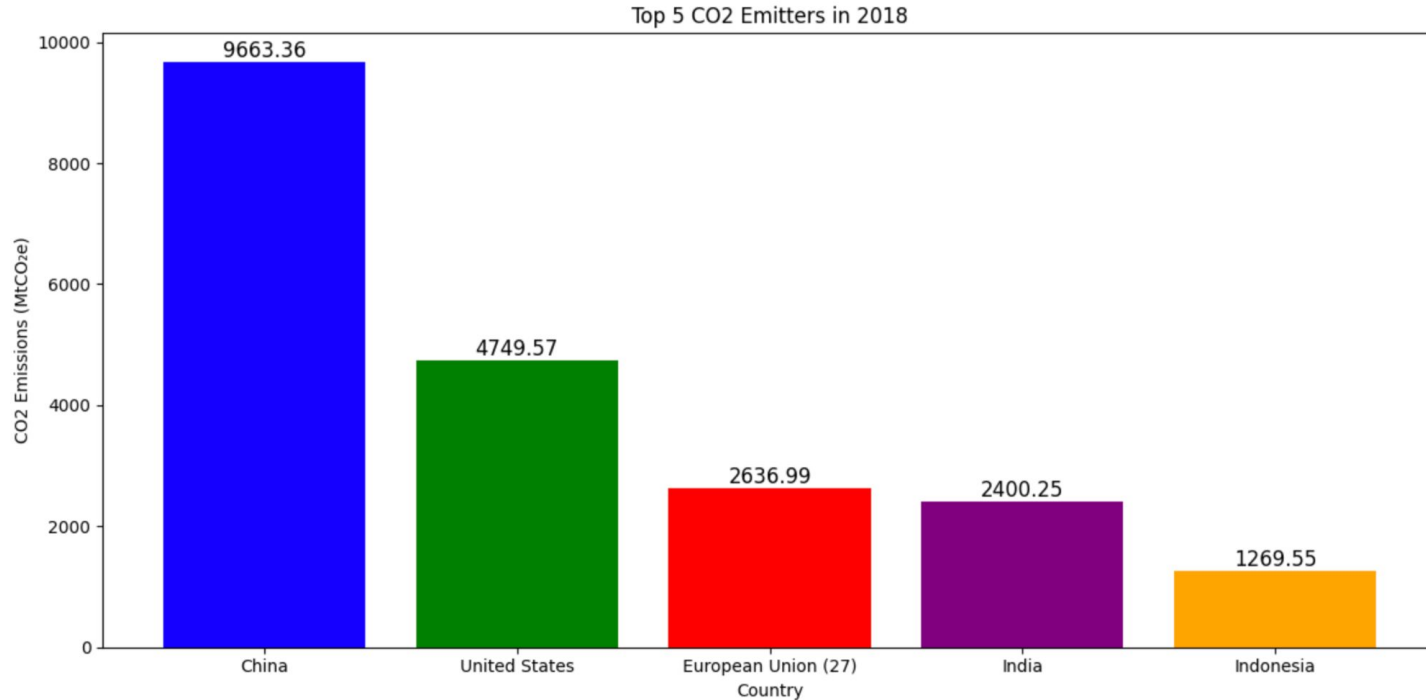
- CO2 emission for all the countries from 1990 to 2018
- From Climate Watch (<https://www.climatewatchdata.org/>)
- measuring unit for CO2 emission: MtCO2e

Global CO₂ Emissions from 1990 to 2018



- A rapid increasing trend
- CO₂ emission level nearly doubled

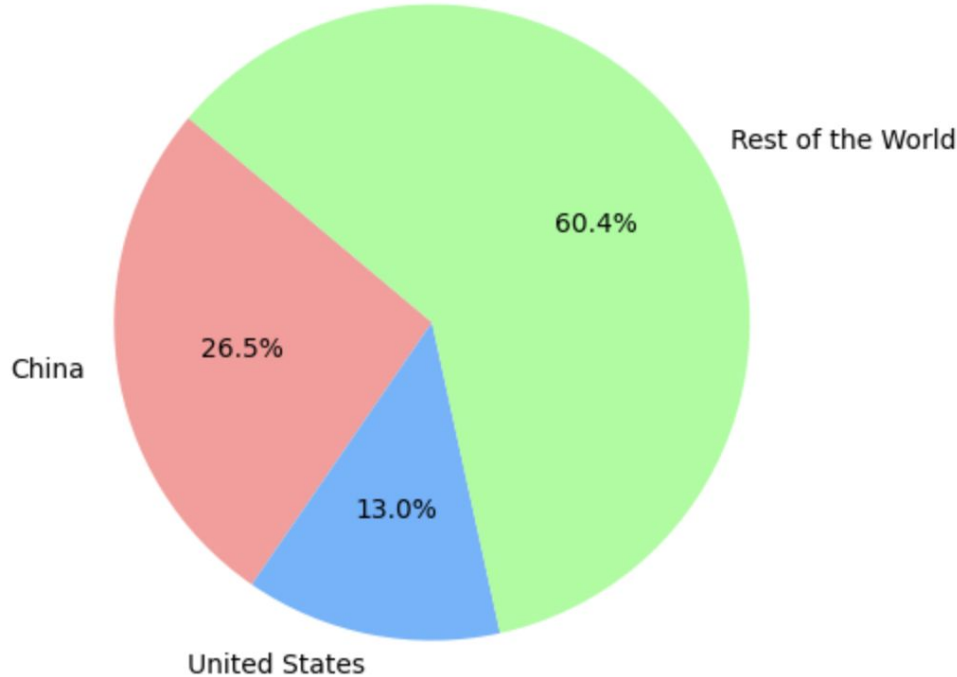
Top 5 CO2 Emission Countries in 2018



- China had **twice** as much CO2 emissions as the United States

CO2 Emissions in 2018: China, United States vs Rest of the World

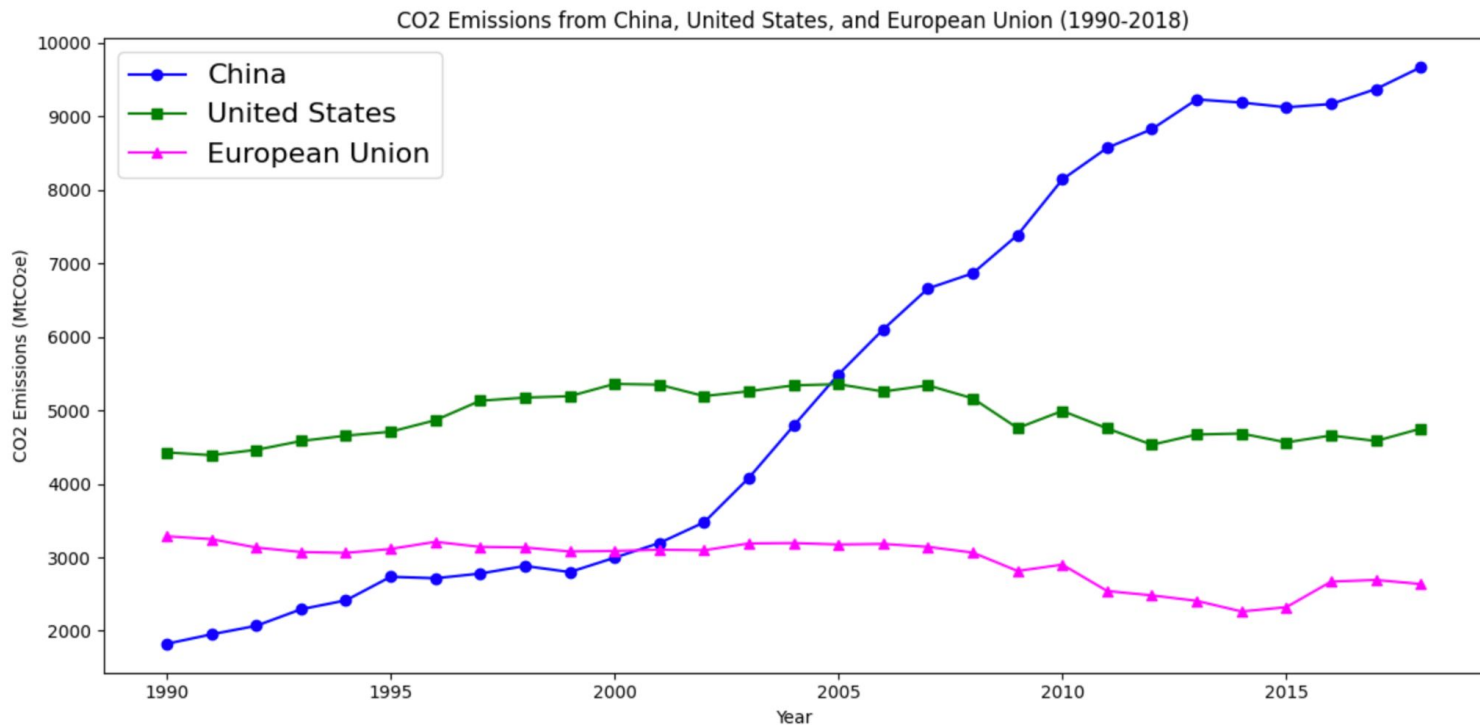
CO2 Emissions in 2018: China, United States vs Rest of the World



- China and the United States are accountable for approximately **40%** of CO2 emissions



CO2 Emissions from China, United States, and European Union



- China had a rapid increase
- United States and European Union maintained stable, with a minor decrease



Key takeaways:

- Increasing trend of CO2 emissions worldwide
- China had the highest CO2 emissions follow by United States, European Union, and India
- China had a rapid increase of CO2 emissions due to rapid industrialization
- The United States and the European Union have maintained stable emissions levels, with a minor decrease due to evolving awareness and environmental policies
- Important for large countries to develop policies to reduce CO2 emissions

Thank you!

