

CO2 Emissions of the G7 Nations + Russia and China

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*“We have to wake up to the fierce
urgency of the now”*

*Jim Yong Kim, President, The
World Bank*

Overview: What are we looking at? Why is it important?

- 🌿 While there are many GHGs, CO₂ is a large contributor to climate disruption and is a byproduct of industrial economic production.
- 🌿 The G7 or Group of Seven refers to the top 7 industrial economies in the world. Member states include: Canada, Japan, France, Germany, Italy, the United Kingdom, and the United States.
- 🌿 We chose to include China and Russia in our analysis as they are two of the top industrial nations on the global stage but are not G7 nations.
- 🌿 Looking at this new Group of 9 or G9 we can take a look at the impact the most powerful industrial nations have on global CO₂ emissions

Overview: Our Methodology

- ❖ Our data source: 2020 Fuel Combustion IEA (International Energy Agency) report
- ❖ Data starts at 1991 - the year the USSR dissolved
- ❖ Report contained 169 countries → 9 relevant countries for analysis
- ❖ Shahab compiled three data sets for each of the G9 nations from the report's data for:
 - Overall CO2 emissions
 - CO2 emissions/GDP
 - CO2 emissions/POP

A lush, dark forest scene with a stream flowing over rocks. The forest is filled with tall, thin trees and dense foliage. Several glowing blue orbs are scattered throughout the scene, adding a magical atmosphere. The text "Let's LOOK at OUR FINDINGS!" is overlaid in the center in a white, serif font.

Let's LOOK at OUR FINDINGS!

Discussion

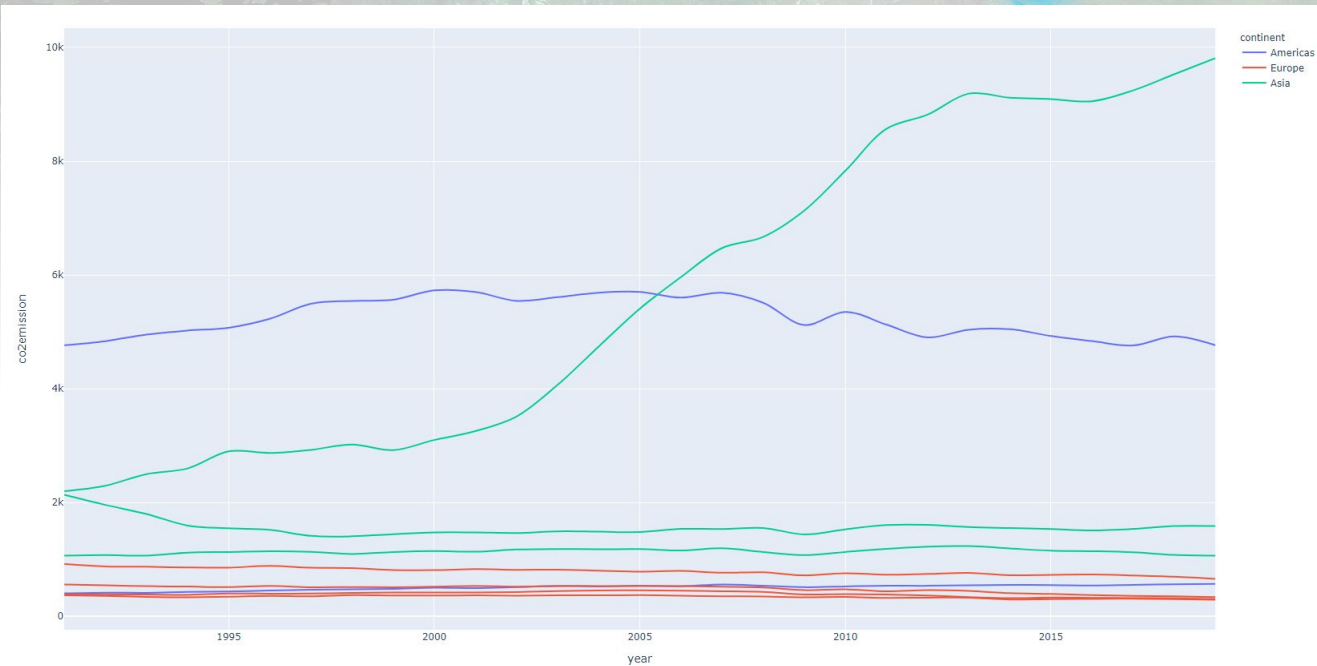
Which country produces the most CO₂ and CO₂/capita?

Consistently the US in both categories until 2006. Then China takes over in overall CO₂ emissions.

Which country produces the least CO₂ and CO₂/capita?

France

Which country is the median producer of CO₂?



Do we see a spike in CO2 production at any point?
Have emissions dropped since the Paris Agreement (2016)?

Conclusions

- The bulk of CO2 production is in the Global North.
- By geographic group, Asia is the largest CO2 emitter and Europe is the smallest emitter.
- There has not been a significant decrease in emissions since the Paris Agreement was signed.
- While China's overall CO2 production is the highest in the group. The US has the highest emissions per capita