CO2 Emissions Data Analysis

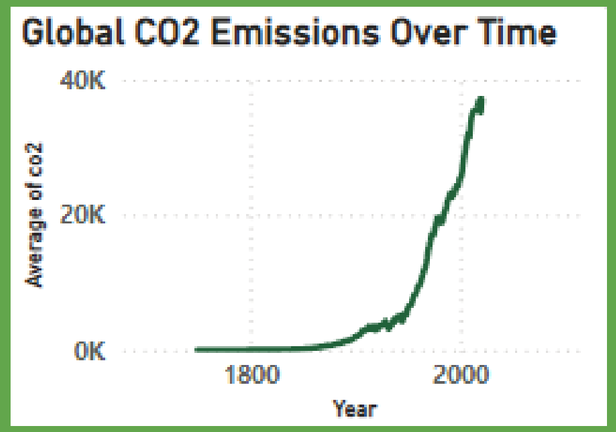
Using Power BI

by Deep Shikha

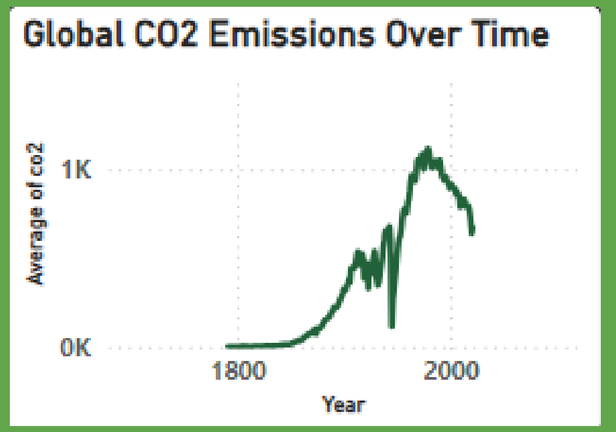
AIM of This Project

In This Project, Analysis of global CO2 emissions, highlighting trends and key indicators across various regions and sectors. The primary focus of this analysis is on understanding the relationship between CO2 emissions and key factors such as economic output, population, and energy efficiency

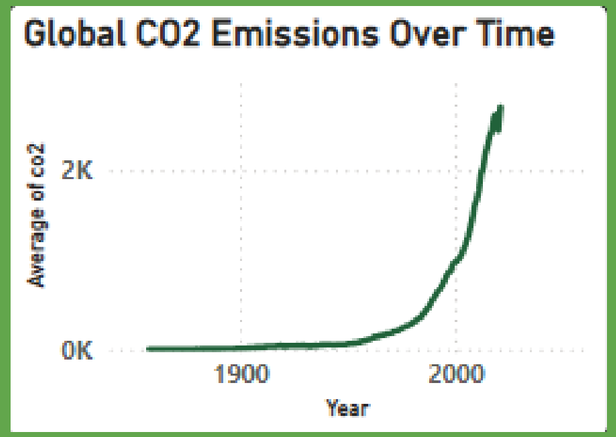
Global CO2 Emissions Over Time



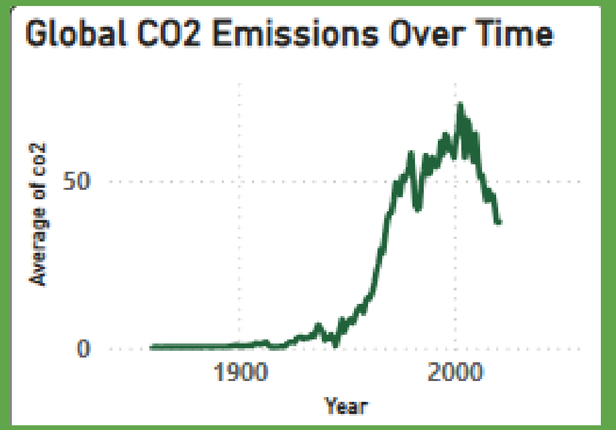
World



Germany



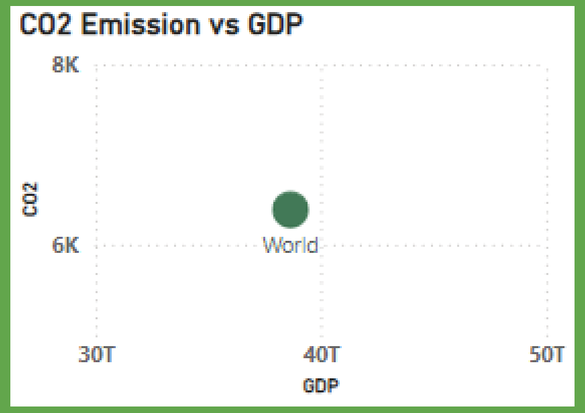
India



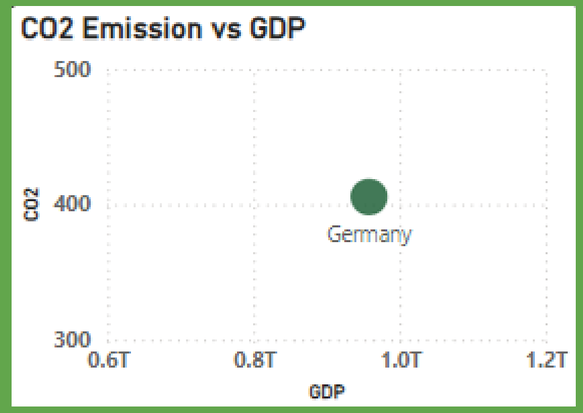
Finland

Historical trends showcasing the exponential growth of CO2 emissions, particularly since the industrial revolution.

CO2 Emissions vs GDP



World



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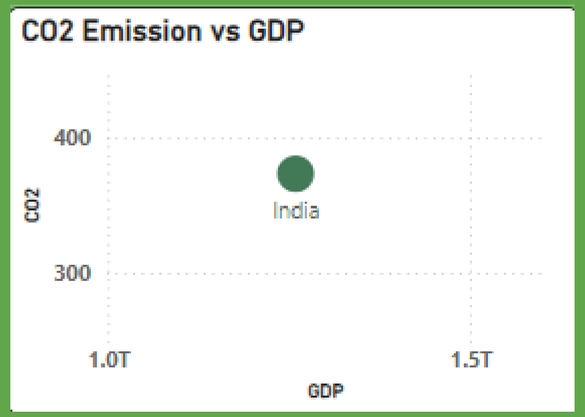

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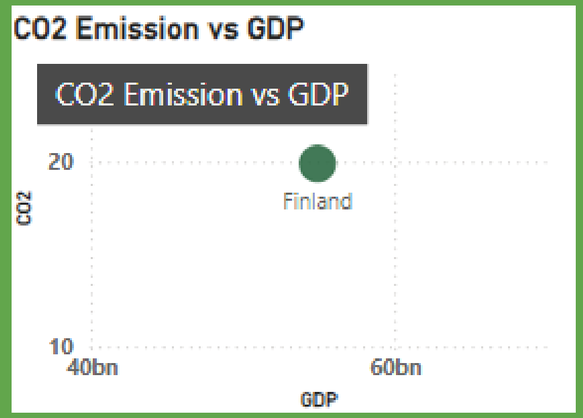


Finland

A comparative view of emissions in relation to economic productivity across different countries.

CO2 Emissions by Sector

CO2 Emission by Sector

country	Count of trade_co2	Count of cement_co2
India	32	92
Total	**32**	**92**

India

CO2 Emission by Sector

country	Count of trade_co2	Count of cement_co2
United States	32	110
Total	**32**	**110**

United States

CO2 Emission by Sector

country	Count of trade_co2	Count of cement_co2
South Africa	32	89
Total	**32**	**89**

South Africa

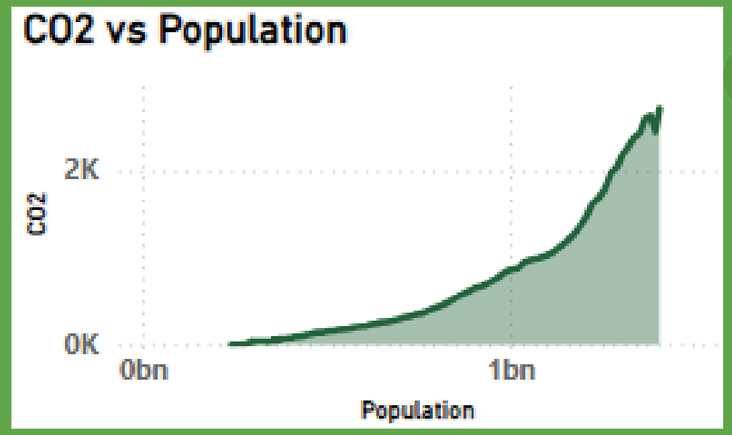
CO2 Emission by Sector

country	Count of trade_co2	Count of cement_co2
Japan	32	95
Total	**32**	**95**

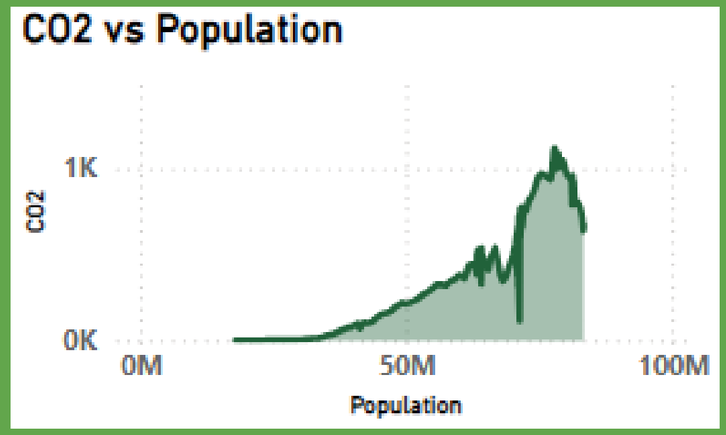
Japan

A breakdown of CO2 contributions by sector, providing insight into how different industries contribute to overall emissions.

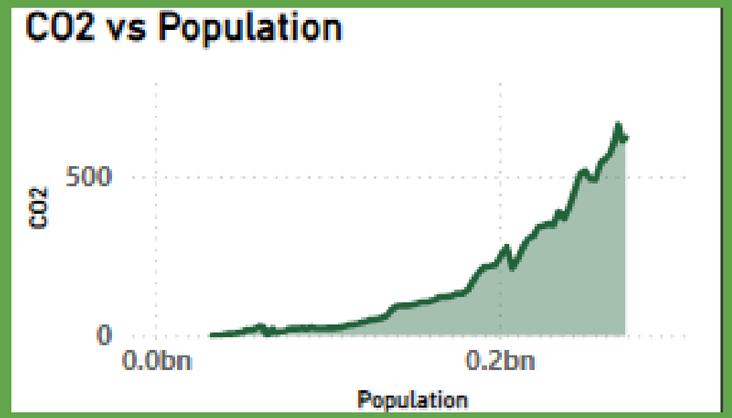
CO2 vs Population



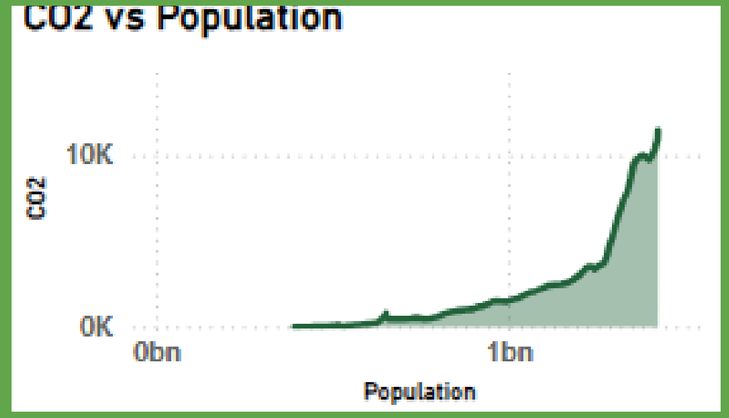
India



Germany



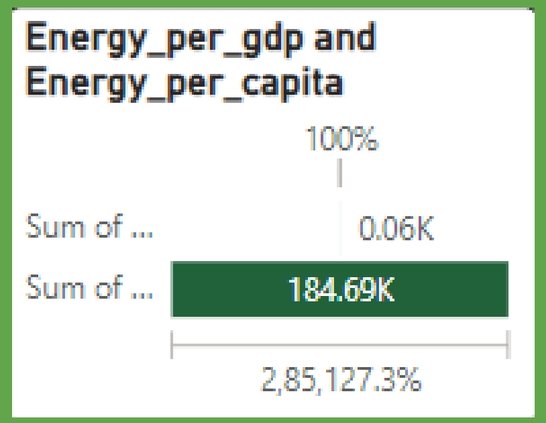
Indonasia



China

A visualization of the direct relationship between population size and CO2 emissions, reflecting the impact of growing populations.

Energy Efficiency Metrics



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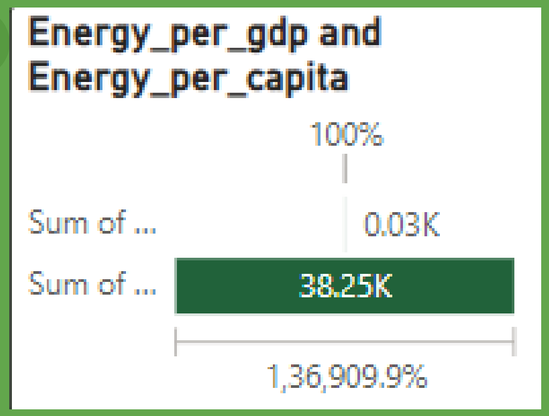
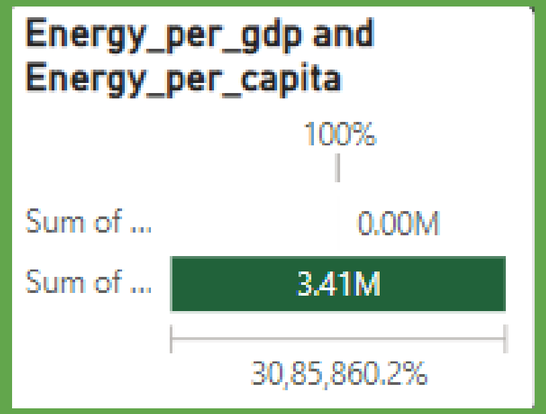
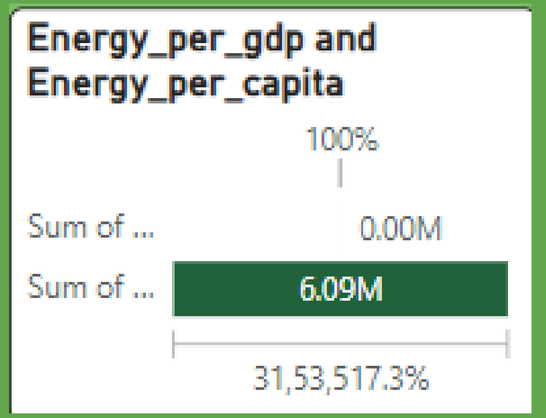


Afganishtan



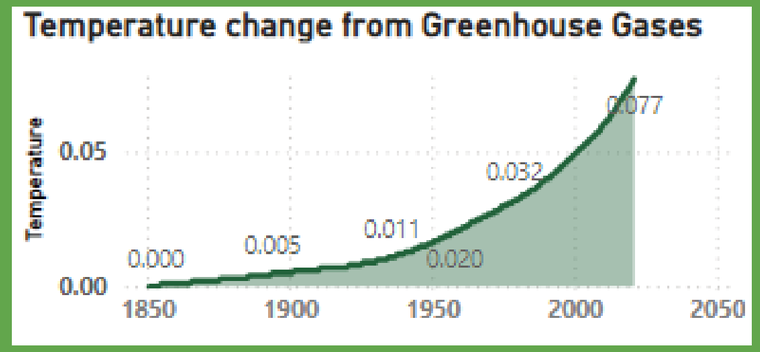
Australia



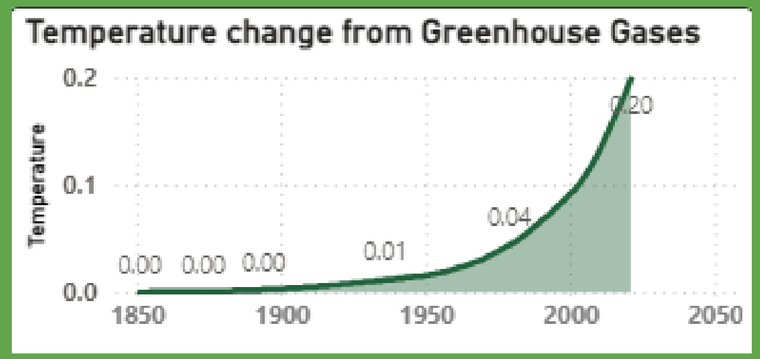
Canada

An examination of energy use in relation to both GDP and per capita, shedding light on the efficiency of energy consumption in driving economic activity.

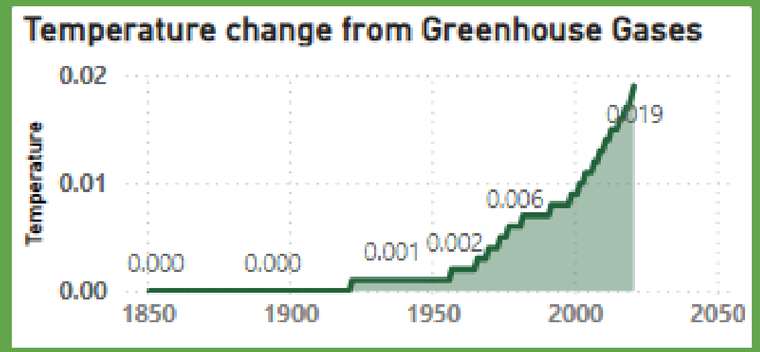
Temperature Change Projections



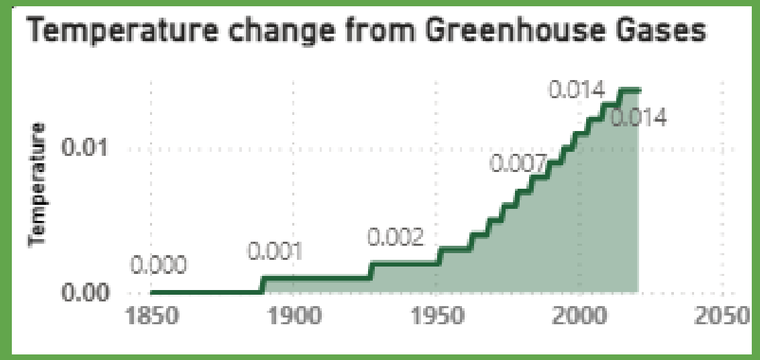
India



China



Iran

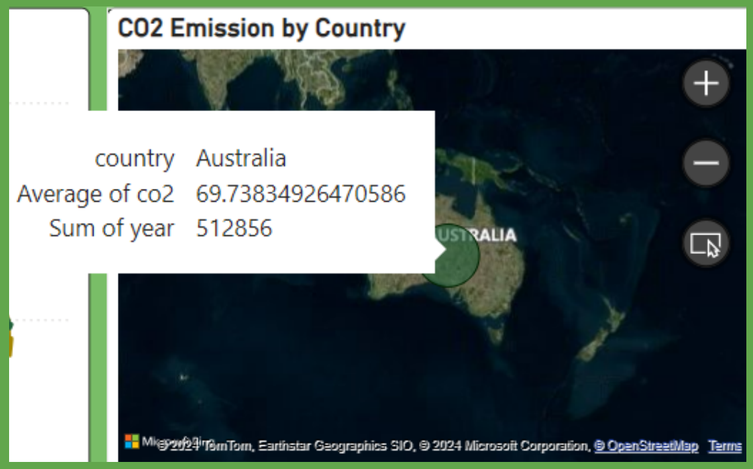


Italy

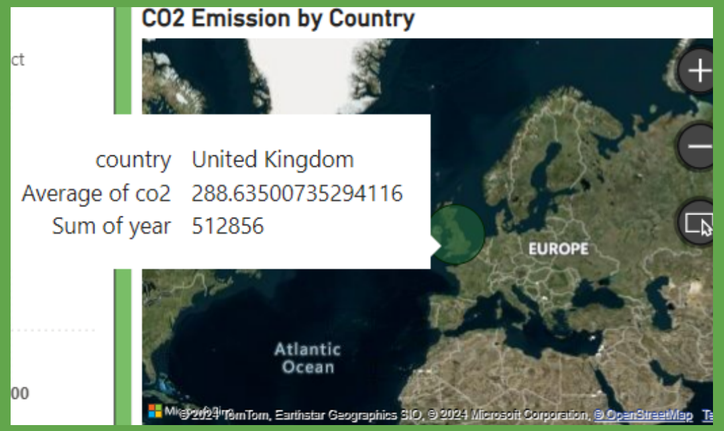
A projection of global temperature increases due to greenhouse gas emissions, with alarming trends indicating future risks.

Geographical Distribution of CO2 Emissions

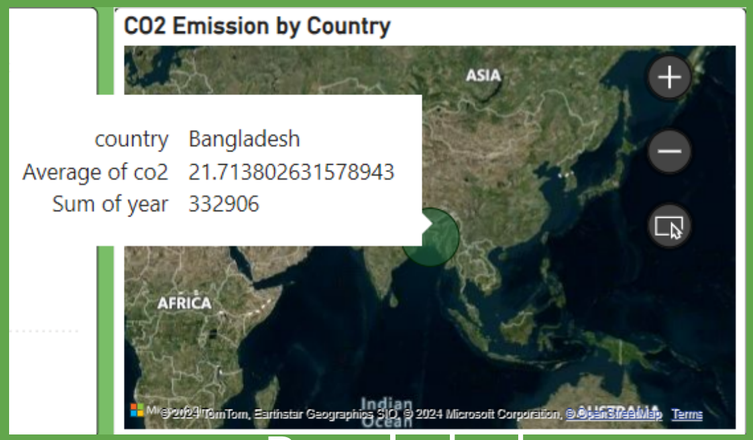
India



Australia



United Kingdom



Bangladesh

A map-based view of CO2 emissions by country, highlighting regions contributing the most to global emissions.

Conclusions

The CO2 Emissions Data Analysis provides an in-depth overview of carbon dioxide (CO2) emissions across various sectors, countries, and historical time periods. it includes key visualizations to better understand the relationships between CO2 emissions and factors such as GDP, population growth, and energy consumption per capita.

Thank You