STUDY ON GREENHOUSE GAS EMISSION BY COUNTRIES

Abstract

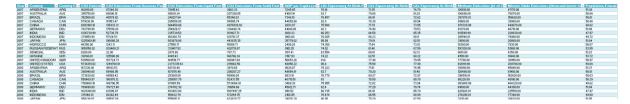
This study delves into the critical issue of greenhouse gas emissions by countries, investigating their role in climate change and global warming. The research involves a comprehensive analysis of greenhouse gas data sourced from 15 countries worldwide, spanning a decade from 2007 to 2016. Through the examination of this extensive dataset, the study aims to identify and understand the patterns and trends associated with greenhouse gas emissions. An interactive dashboard by using PowerBI was developed for the analysis.

Dataset

In this investigation, the analysis focuses on countries emitting greenhouse gases and contributing to climate change and global warming. The study utilizes data on greenhouse gas emissions gathered from 15 countries globally over a 10-year period, ranging from 2007 to 2016.

The dataset was taken from World Development Indicators – DataBank;

https://databank.worldbank.org/source/world-development-indicators



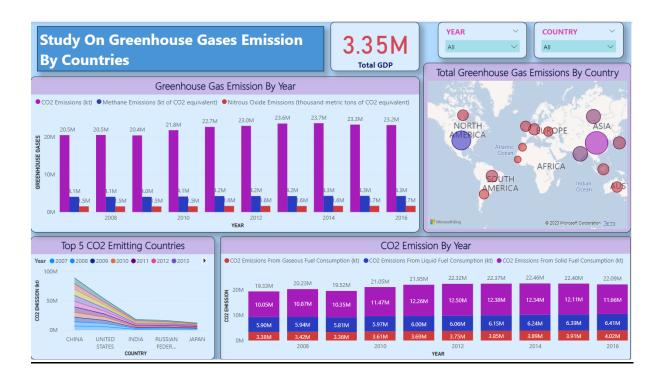
Methodology

After cleaning and transforming the data in Excel, it was

imported into Power BI. Within Power BI, various visualizations were generated to analyze and interpret the data effectively.

Results

Utilizing Power BI, an interactive dashboard was crafted to highlight key aspects such as "greenhouse gas emission by year," pinpointing the leading CO2 emitting countries, showcasing CO2 emissions trends over the years, and presenting the total greenhouse gas emissions breakdown by country.



Conclusion

Climate change and global warming are affecting the world very badly. It causes natural disasters. The main reason for climate change and global warming is greenhouse gases. In this study, by using Power BI an interactive dashboard was developed to analyze the emissions of greenhouse gases from different countries from the year 2007 to 2016.

From the analysis, China is emitting more greenhouse gas followed by the United States and India. Also, we can find that the emissions of greenhouse gases are increasing by the year.