**DATA EXPLORATION PROJECT DATASET**

**Dataset 1**

**International Fossil Co2 Emissions**

The data is based on the based on the EDGAR database created by European Commission and Netherlands Environmental Assessment Agency released in 2018. It lists the 1990, 2005 and 2017 annual CO2 emissions estimates (in megatons of CO2 per year) along with a list of calculated emissions per km2 (in tons of CO2 per year) and emissions per capita (in tons of CO2 per year). The data only considers carbon dioxide emissions from the burning of fossil fuels and cement manufacture, but not emissions from land use, land-use change and forestry. It also contains the percentage of change in the Co2 emissions of each country over these years.

<https://www.kaggle.com/datasets/rajkumarpandey02/countries-by-carbon-dioxide-emissions?resource=download>

**Dataset 2**

**United States Fossil Co2 Emissions**

The term energy-related CO2 emissions, as used in these tables, refers to emissions released in those states of the United States where fossil fuels are consumed. Energy-related carbon dioxide (CO2) emissions vary significantly across states, on both an absolute basis and on a per capita basis. Total state CO2 emissions include CO2 emissions from direct fuel use across all sectors, including residential, commercial, industrial, and transportation, as well as primary fuels consumed for electricity generation.

<https://www.eia.gov/environment/emissions/state/>

From the **International Fossil Co2 Emissions** dataset, we are planning,

1. To analyze the trend in carbon dioxide emissions over time (1990, 2005, 2017) for different countries and identify countries with the highest and lowest emissions.
2. To analyze the change in the Co2 emissions of countries over the period – 1990 until 2017.
3. To analyze the Co2 emissions of different countries compared to world emission levels and highlight the ones that have significantly higher or lower deltas compared to the global standards of emissions.

From analyzing the **International Fossil Co2 Emissions** dataset, we found out that the Co2 Emissions from United States to be way higher than any other country in the world. We are planning to use the **United States Fossil Co2 Emissions** toanalyze in depth about the Fossil Co2 Emissions in the United States and identify the major sectors contributing to those emissions so that the emissions from those sectors can be minimized.