

Activity 1: Obtain a data set

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Data Set: Emissions by Country, 2002-2022

Organization: Global Carbon Project (download from Kaggle)

Link: [Emissions by Country, 2002-2022](#)

Description: The dataset provides a country-level survey of global fossil CO2 emissions from 2002-2022, including total emissions, emissions from coal, oil, gas, cement, flaring and other sources as well as per capita emissions.

The data is organized using the following columns: Country (the name of the country), ISO 3166-1 alpha-3 (the three letter code for the country), Year (the year of survey data), Total (the total amount of CO2 emitted by the country in that year), Coal (amount of CO2 emitted by coal in that year), Oil (amount emitted by oil) , Gas (amount emitted by gas) , Cement(amount emitted by cement) , Flaring(flaring emission levels) and Other(other forms such as industrial processes). In addition, there is also one extra column Per Capita which provides an insight into how much personal carbon dioxide emission is present in each Country per individual.

Questions:

1. Which is the country with the highest CO2 emissions per capita?
2. Where do most of the CO2 emissions come from (coal, gas, etc.)?
3. What has been the progress in terms of reducing CO2 emissions?
4. What are the areas where more focus should be placed to reduce emissions?
5. What strategies have been taken to combat climate change that really work?
6. Which are the regions with the least amount of CO2 emissions?
7. Which countries are complying with the Paris agreement?
8. Is the expected progress being met?

Stakeholders: Country governments and environmental organizations (like Greenpeace, GFN, Earth Justice, NGO's).