UNEARTHING THE ENVIRONMENTAL IMPACT OF HUMAN ACTIVITY: A GLOBAL CO_2 EMISSION ANALYSIS

SUBMITTED BY

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INTRODUCTION

1.1 Overview

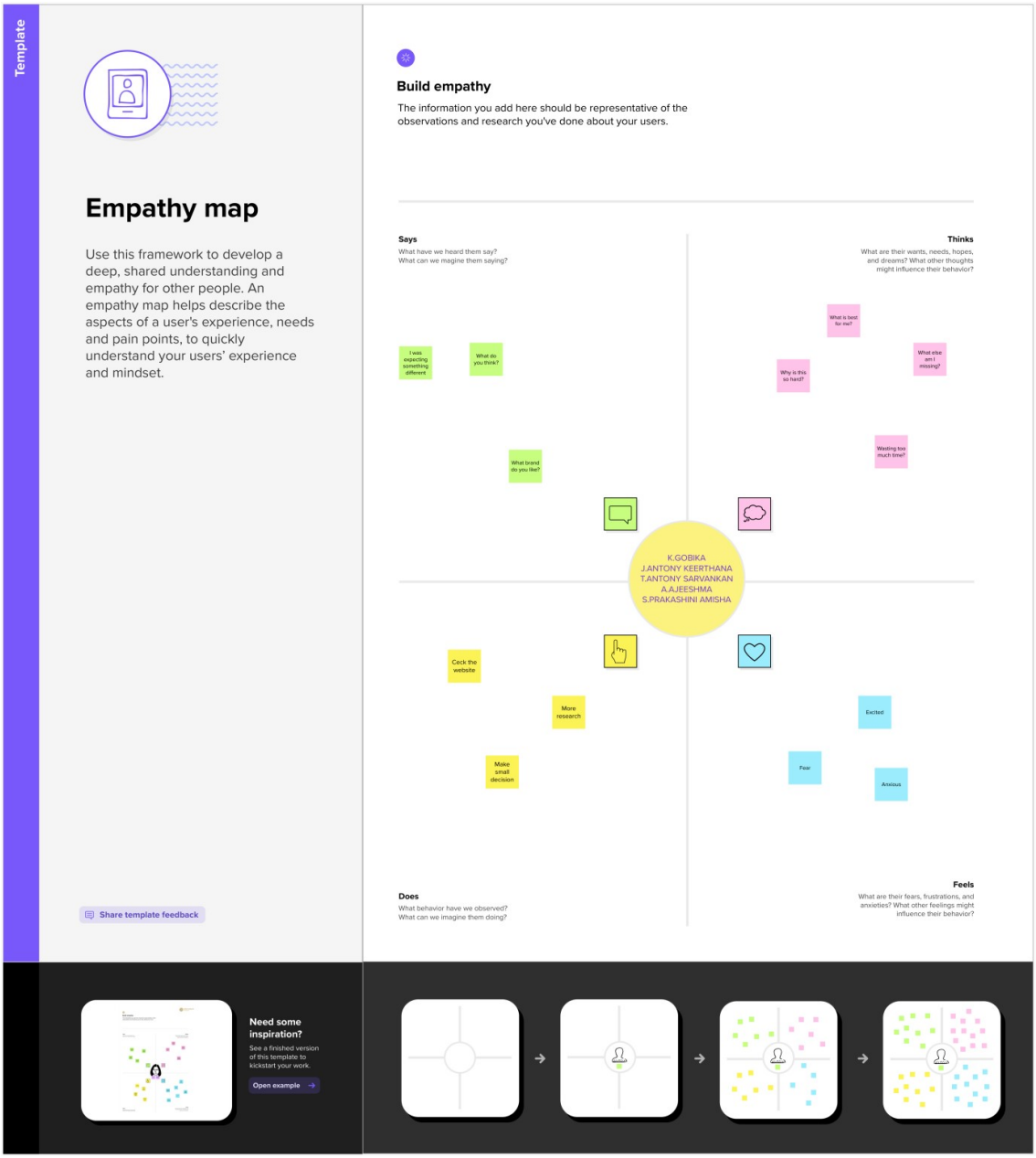
The global Co_2 emissions and energy demand numbers are based on the IEA's detailed region-by-region and fuel –by fuel analysis, drawing on the latest official national data and publically available energy, economic and weather data. Combined with the methane emissions estimates published by the IEA and estimates of nitrous oxide and flaring related Co_2 emissions, this new analysis shows that overall greenhouse gas emission from energy to their highest level in2021. Carbon dioxide emissions, primarily from the combustion of fossil fuels, have risen dramatically since the start of the industrial revolution. Most of the world's green house gas emissions come from a relatively small number of countries.

1.2 Purpose

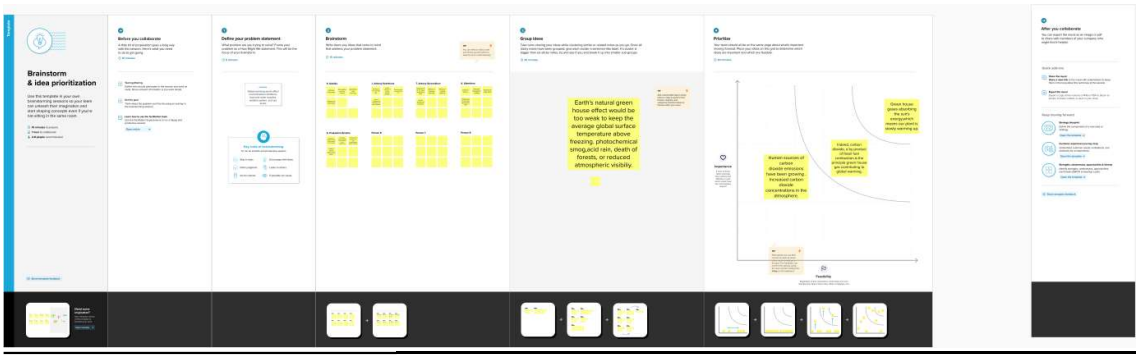
This project is helpful for the countries to Identify for improvement and takes steps to reduce factors that are responsible for Co_2 emission for environmental sustainability. The carbon Co_2 can be used to produce fuels that are in use today, including methane, gasoline, and aviation fuels. Fossil fuels are used is the primary source of Co_2. The data throws light onto how much fossil fuels are burnt, per year per nation, which amounts to an increase in Co_2 every year.

2. PROBLEM DEFINITION AND DESIGN THINKING

2.1 EMPATHY MAP



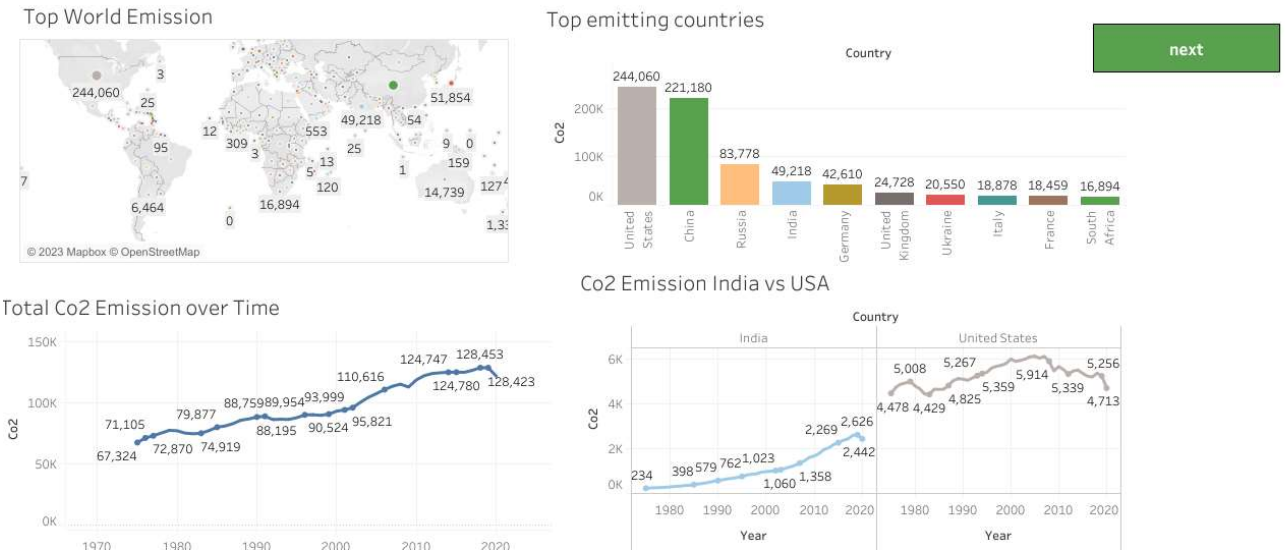
2.2 IDEATION & BRAINSTORMING MAP



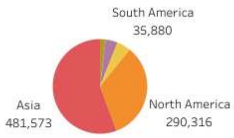
3. RESULT

3.1 DASHBOARD

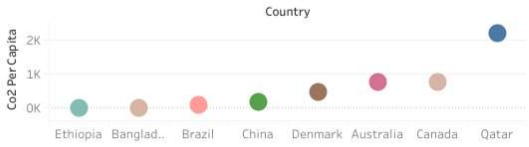
A dashboard is a collection of several views, letting you compare a variety of data simultaneously.



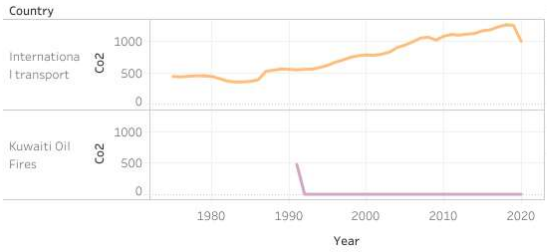
Total Emission by Continents



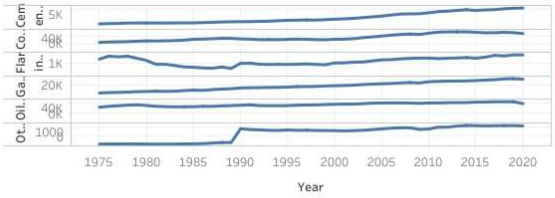
Co2 Emission per Capita

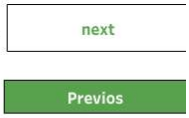


Co2 Emission by International Factors

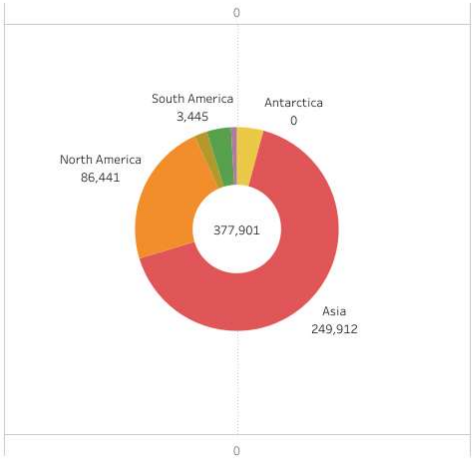


Emission Rate over Years

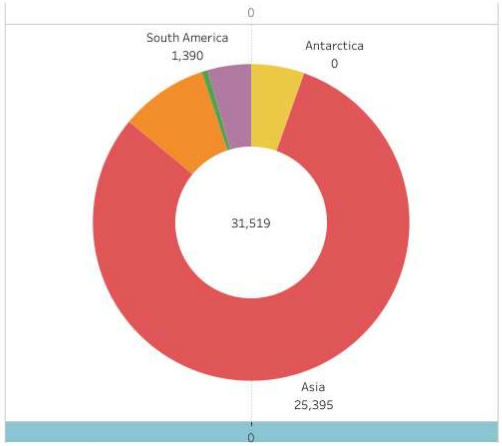


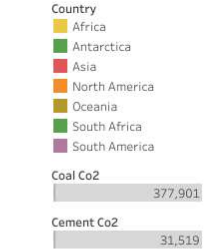


Doghnut chart- coal Co2

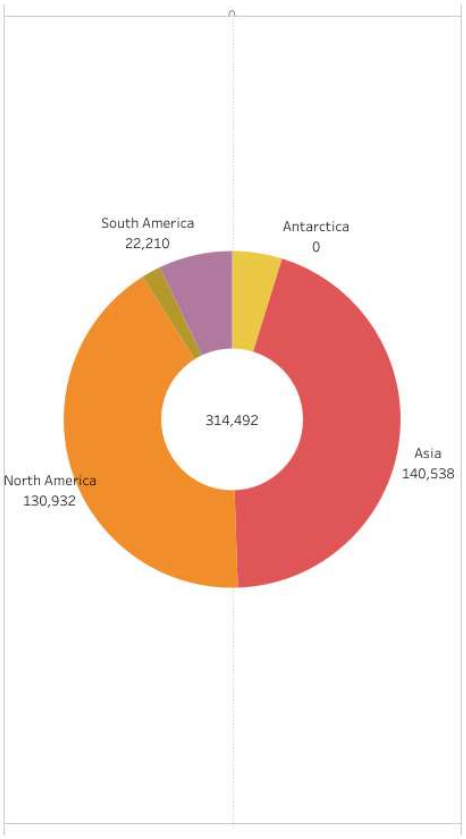


Doghnut chart- cement Co2

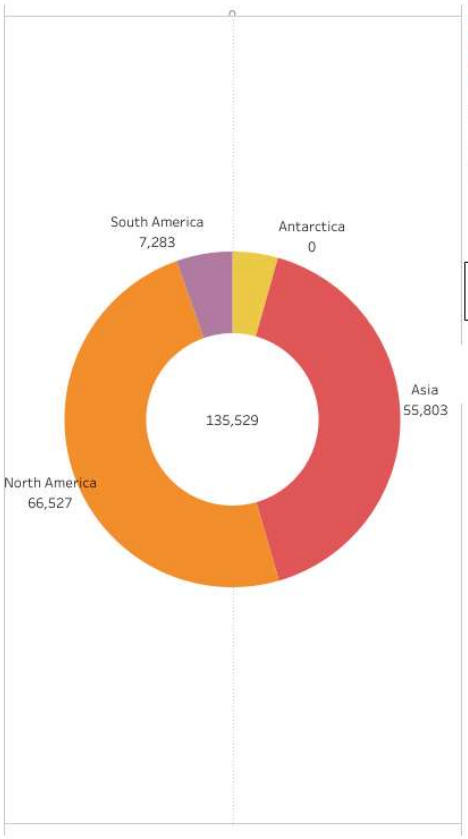




Doughnut chart oil CO2



Doghnut chart- Gas Co2



Country
- Africa
- Antarctica
- Asia
- North America
- South America

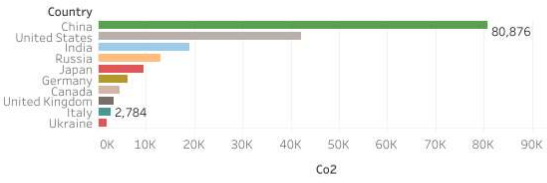
Gas Co2
135,529

Oil Co2
314,492

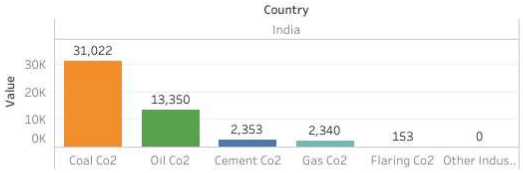
next

Previous

Co2 Emission over past 10 years



Continent Contribution in Co2 Emission



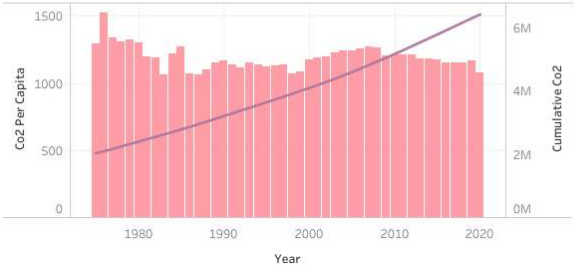
Country
- Canada
- China
- Germany
- India
- Italy
- Japan
- Russia
- Ukraine
- United Kingdom
- United States

Measure Names
- Co2 Per Capita
- Cumulative Co2

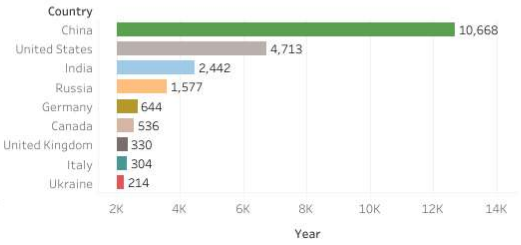
Next

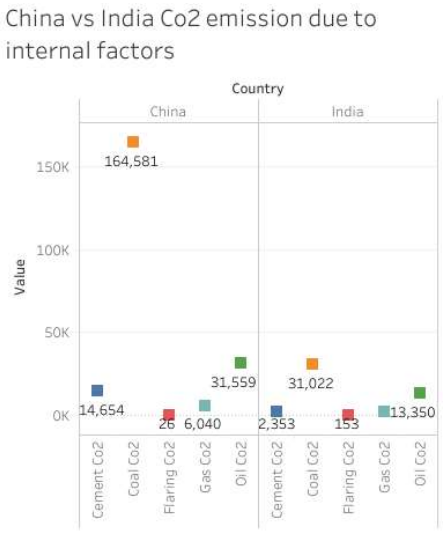
Previous

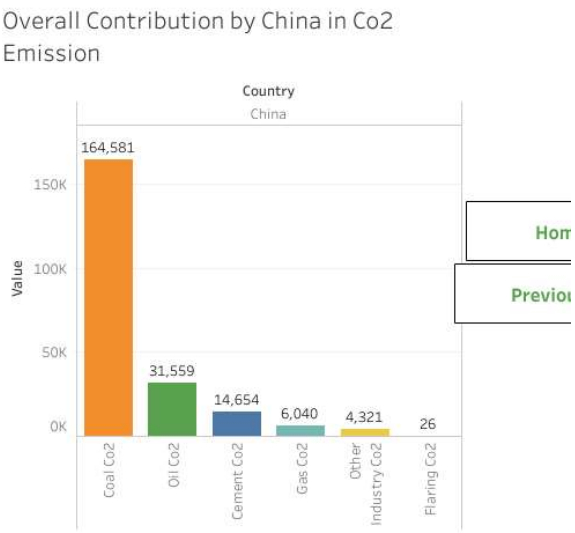
Cumulative Co2 and Co2 per Capita



Co2 Emission in 2020

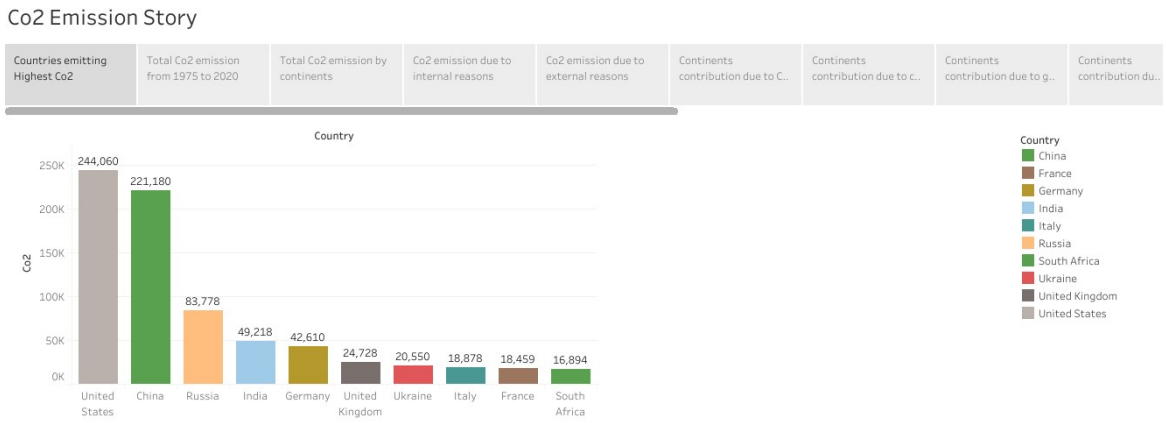






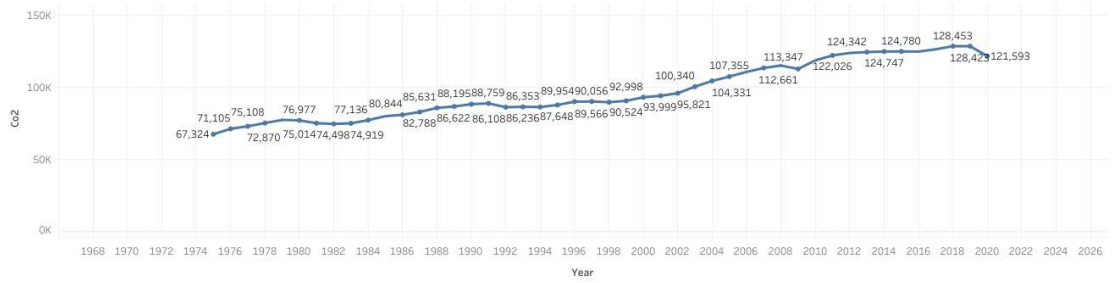
3.2 STORY

A story is a sheet, so the methods you use to create, name, and manage worksheets and dashboards also apply to stories. At the same time, a story is also a collection of sheets, arranged in a sequence. Each individual sheet in a story is called a story point.



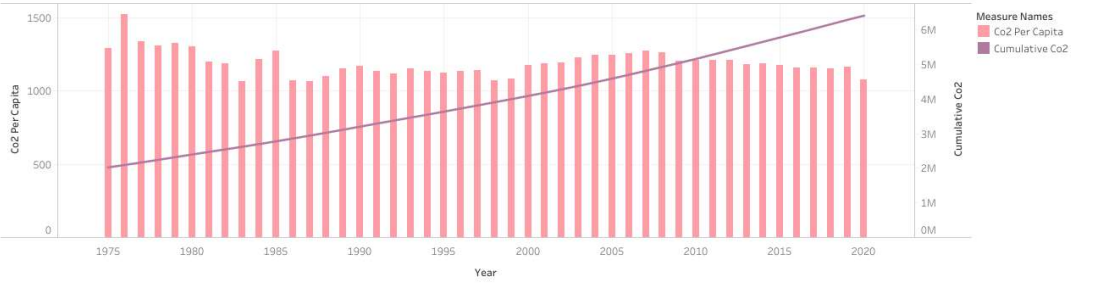
Co2 Emission Story

Countries emitting Highest Co2 | **Total Co2 emission from 1975 to 2020** | Total Co2 emission by continents | Co2 emission due to internal reasons | Co2 emission due to external reasons | Continents contribution due to C.. | Continents contribution due to c.. | Continents contribution due to g.. | Continents contribution du..



Co2 Emission Story

Continents contribution du.. | Continents contribution due to g.. | Continents contribution due to oi.. | Co2 emission over past 10 years | Contribution of India in Co2 emission | C2 emission India Vs China | Emission of Co2 in 2020 | Overall contribution of China in Co2 emission | **Cumulative Co2 and Co2 per capita**



Co2 Emission Story

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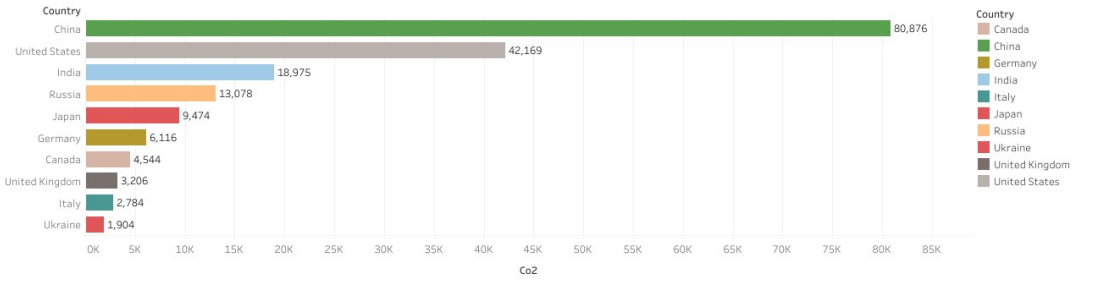

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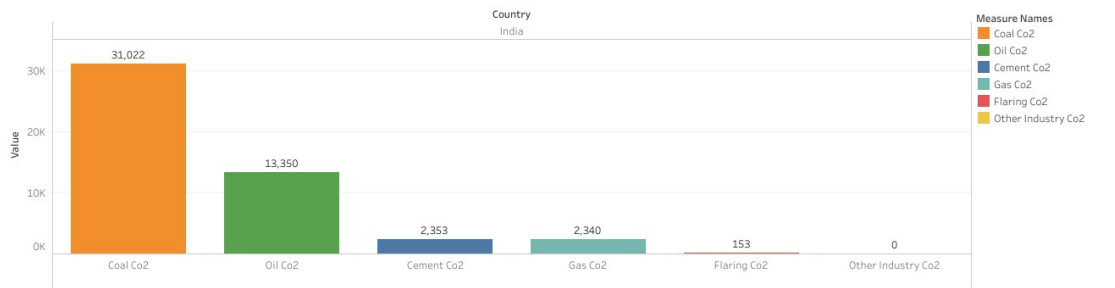

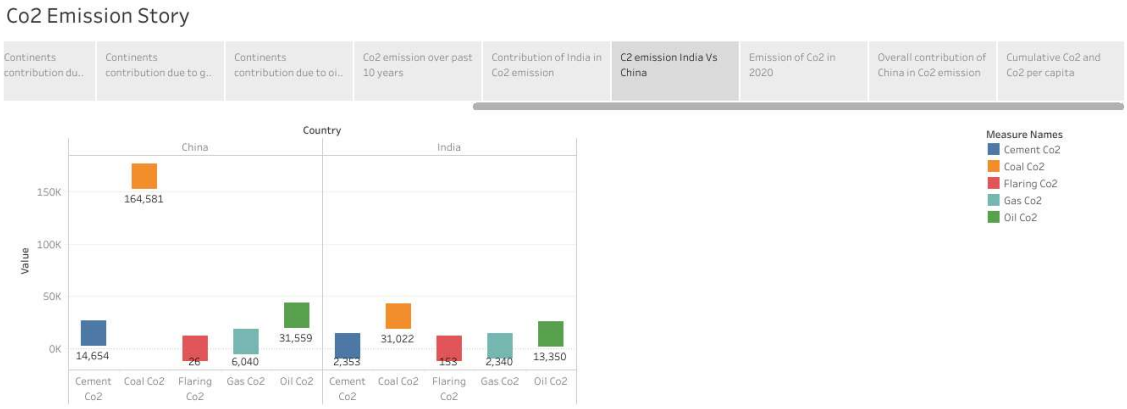

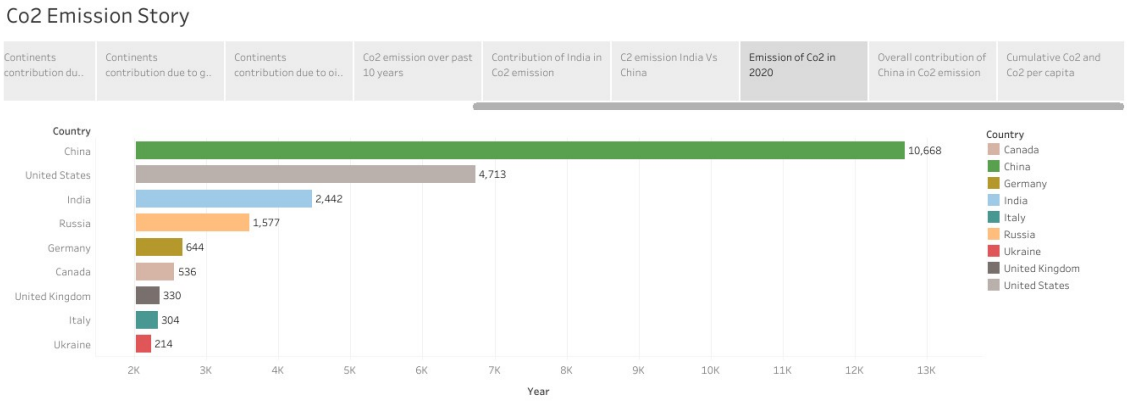

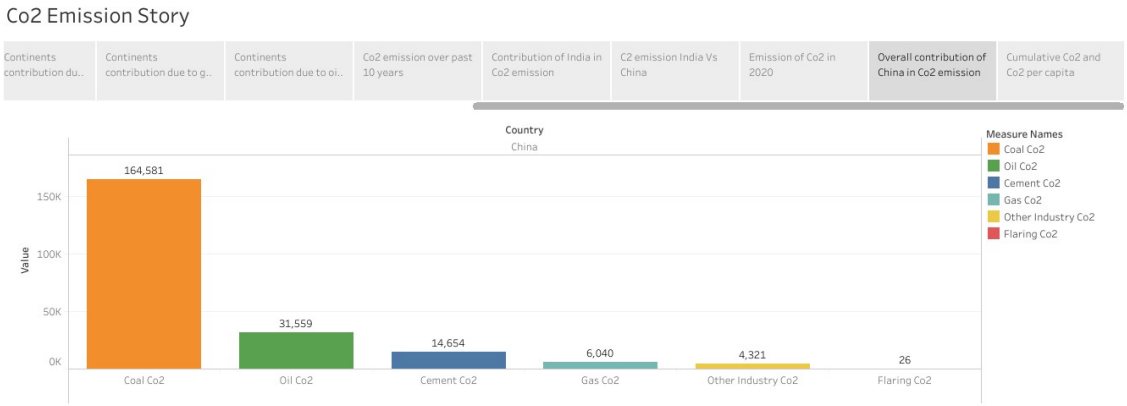

4. ADVANTAGES AND DISADVANTAGES

Green plants grow faster with more Co_2. Many also become more drought-resistant because higher Co_2 levels allow plants to use water efficiently. More abundant vegetation from increased Co_2 is already apparent.

To maintain the change of keeping the average global temperature increase below the limit to long term climate change. High carbon dioxide levels can cause poor air quality and can even extinguish pilot lights on gas powered appliances. Carbon dioxide in the atmosphere warms the planet, causing climate change. Human activities have raised the atmosphere's carbon dioxide content by 50% in less than 200 years.

5. APPLICATIONS

Co_2 emission, which has been increasing in recent years, is due to the increasing amount of greenhouse gases in the atmosphere. The agricultural sector, which has a 25% share in greenhouse gas formation, plays an important role in CO2 emission. CO2 emission is helpful for industrial purposes. At the beginning of this applications, can be listed reduced tillage, deficit irrigation, and reduction of fertilizer usage, reuse of agricultural wastes and agricultural management of waste water.

6. CONCLUSIONS

Carbon Emission Analysis has received increasing global attention due to rapid global climate change. Thus, academics, international organizations, and government agencies have paid special consideration to identifying the carbon emission sources and thereby implementing carbon mitigation strategies.

7. FUTURE SCOPE

In The Annual Energy Outlook 2022 Reference case, which assumes no changes to current laws or regulations, the U.S. Energy Information Administration projects that U.S energy – related carbon dioxide emissions will fall to 4.5 billion metric tons in 2037, or 6% below the energy –related Co_2. Co_2 emission is a consequence of the activities of the company but owned or controlled by it. Accounting for scope 2 emissions is important because nearly 40% of global GHG emissions can be traced to energy generation, and half of that energy is used by Business.