Project Report Template

UNEARTHING THE ENVIRONEMENTAL IMPACT OF HUMAN ACTIVITY: A GLOBAL CO2 EMISSION

1. INTRODUCTION

1.1 Overview

Global Warming is one of the biggest challenges currently being faced by the human race, although correlation is not causation, a likely cause of global warming is due to increased atmospheric carbon dioxide from human activity. Co2 emission refers to the carbon emitted throughout the world. For this analysis we will be focusing on Co2 emissions and its effect on the world we live in as we as some key factors and stats that may play a role in the emission of Co2 globally. Fossil fuel use is the primary source of co2. The data throws light onto how much fossil fuels are burnt, per year per nation, which amounts to an increase in Co2 every year. Analysing Global Co2 Emission across countries from 1975 to 2020.

1.2 Purpose

The purpose of this project is reduce the usage of carbon dioxide emission. Factories is one of the major source to release the Co2 emission in the atmosphere. By this, we know that the which countries emit co2 emission most .

2. Problem definition and design thinking

2.1 Empathy Map

Template

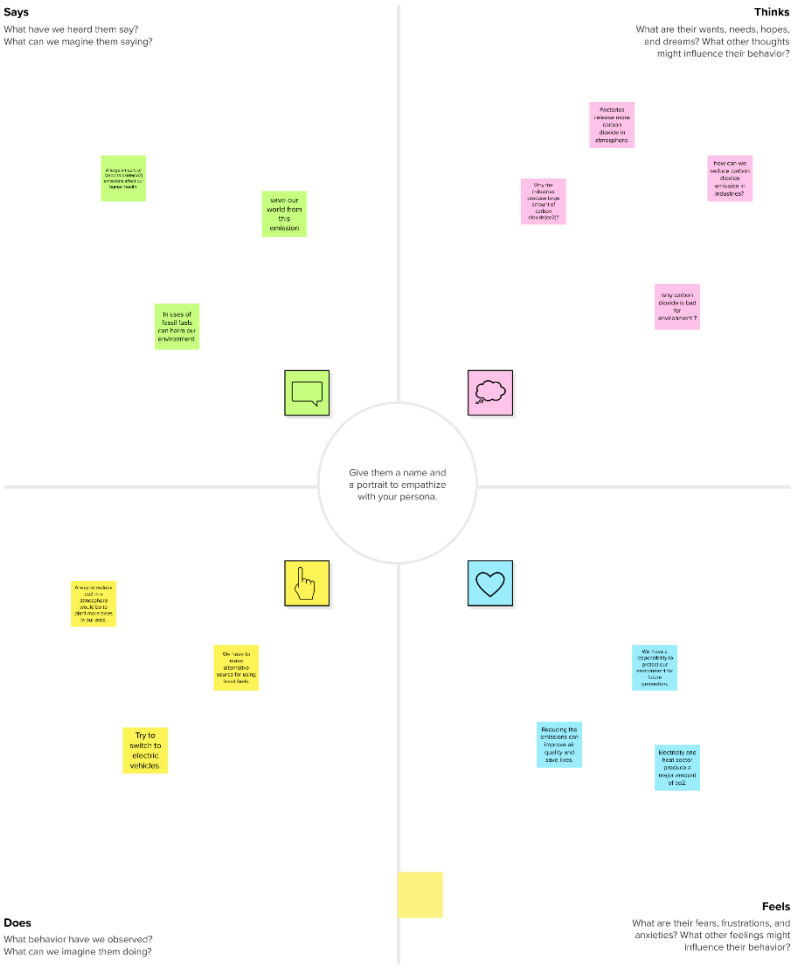
Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

Share template feedback

Build empathy

The information you add here should be representative of the observations and research you've done about your users.

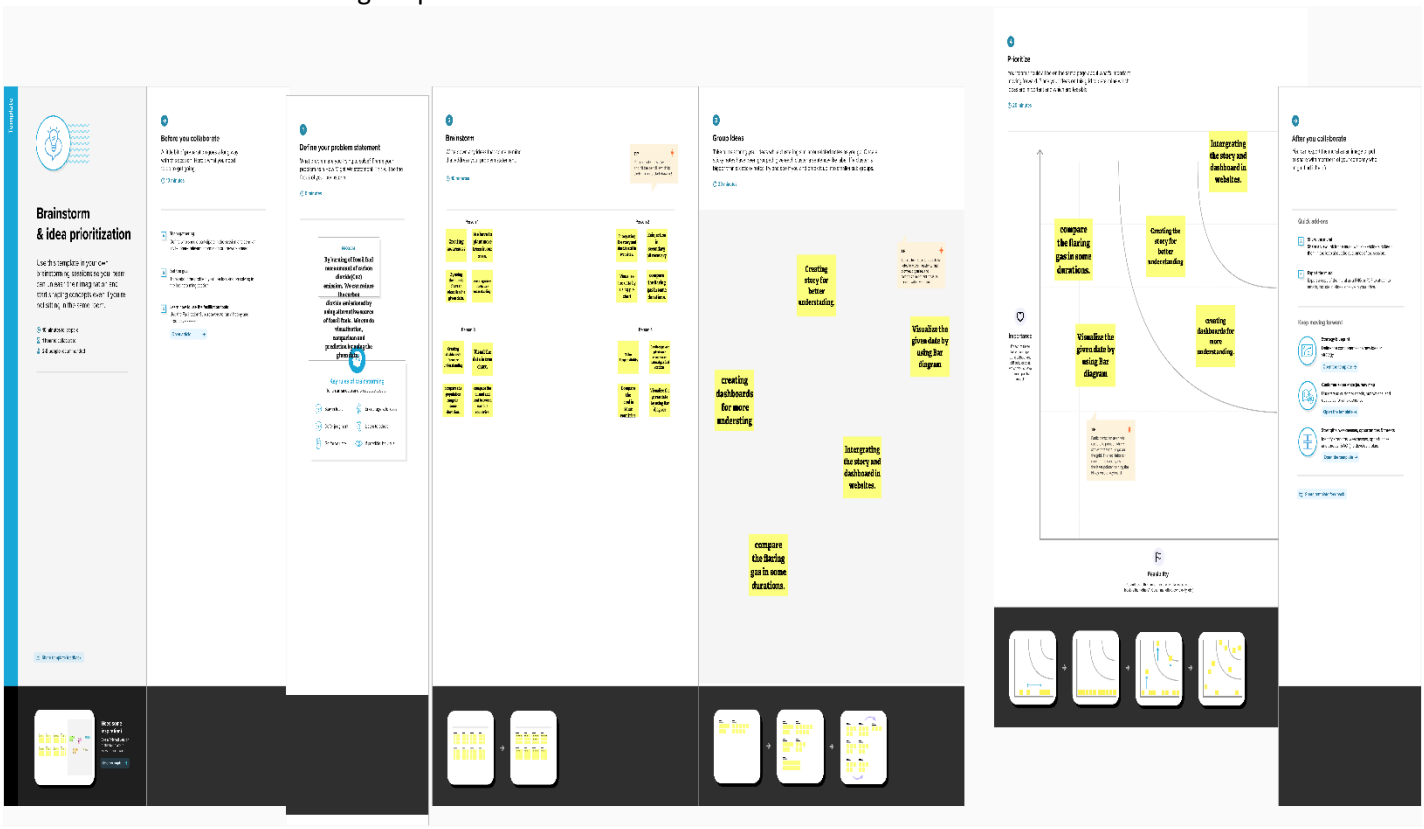


Need some inspiration?

See a finished version of this template to kickstart your work.

Open example →

2.2 Ideation and Brainstorming Map



3. RESULTS

Throughout the analysis of visualizations, dashboard and story, we can conclude co2 emission in the atmosphere from 1975 – 2020 years. Likewise we can see more results. The visualization, dashboard, and story as given below:

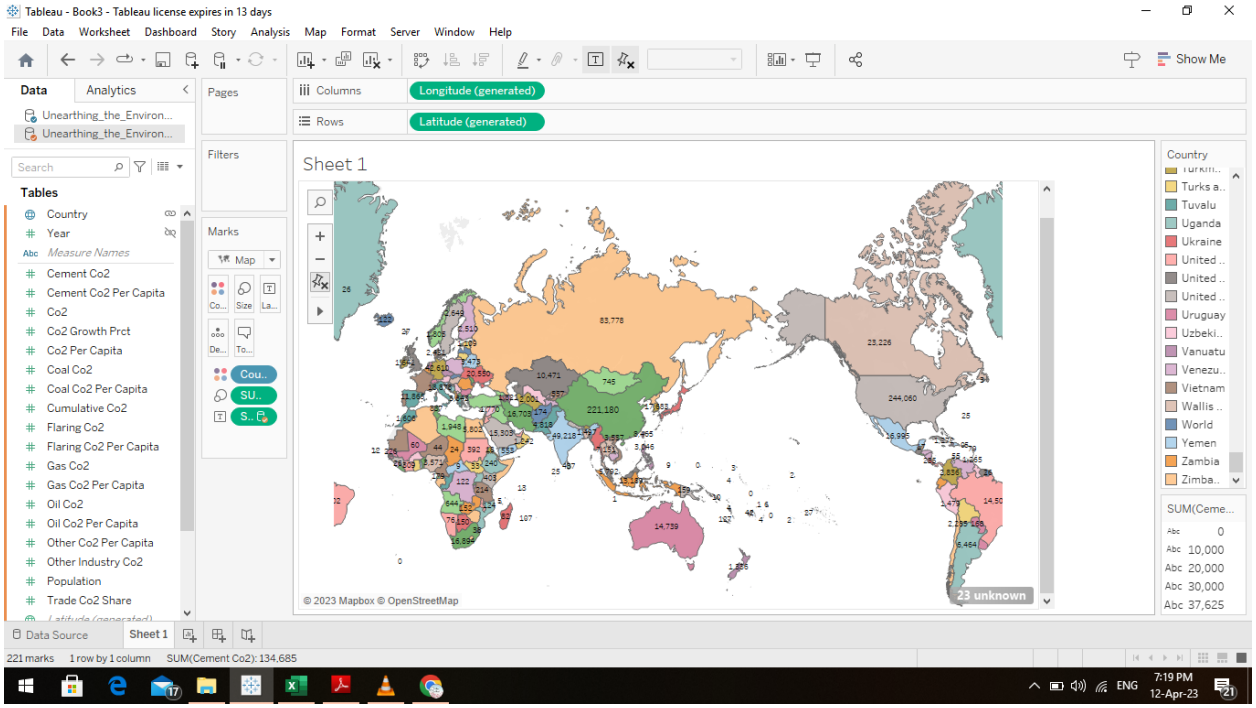


Tableau - Book3 - Tableau license expires in 13 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Show Me
Data Analytics
Pages
Columns Longitude (generated)
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Marks
Map
Sheet 1
Tables
Country
Year
Measure Names
Cement Co2
Cement Co2 Per Capita
Co2
Co2 Growth Prct
Co2 Per Capita
Coal Co2
Coal Co2 Per Capita
Cumulative Co2
Flaring Co2
Flaring Co2 Per Capita
Gas Co2
Gas Co2 Per Capita
Oil Co2
Oil Co2 Per Capita
Other Co2 Per Capita
Other Industry Co2
Population
Trade Co2 Share
© 2023 Mapbox © OpenStreetMap
23 unknown
Country
Turks a..
Tuvalu
Uganda
Ukraine
United ..
United ..
United ..
Uruguay
Uzbeki..
Vanuatu
Venezu..
Vietnam
Wallis ..
World
Yemen
Zambia
Zimba..
SUM(Ceme...
0
10,000
20,000
30,000
37,625
Data Source
Sheet 1
221 marks
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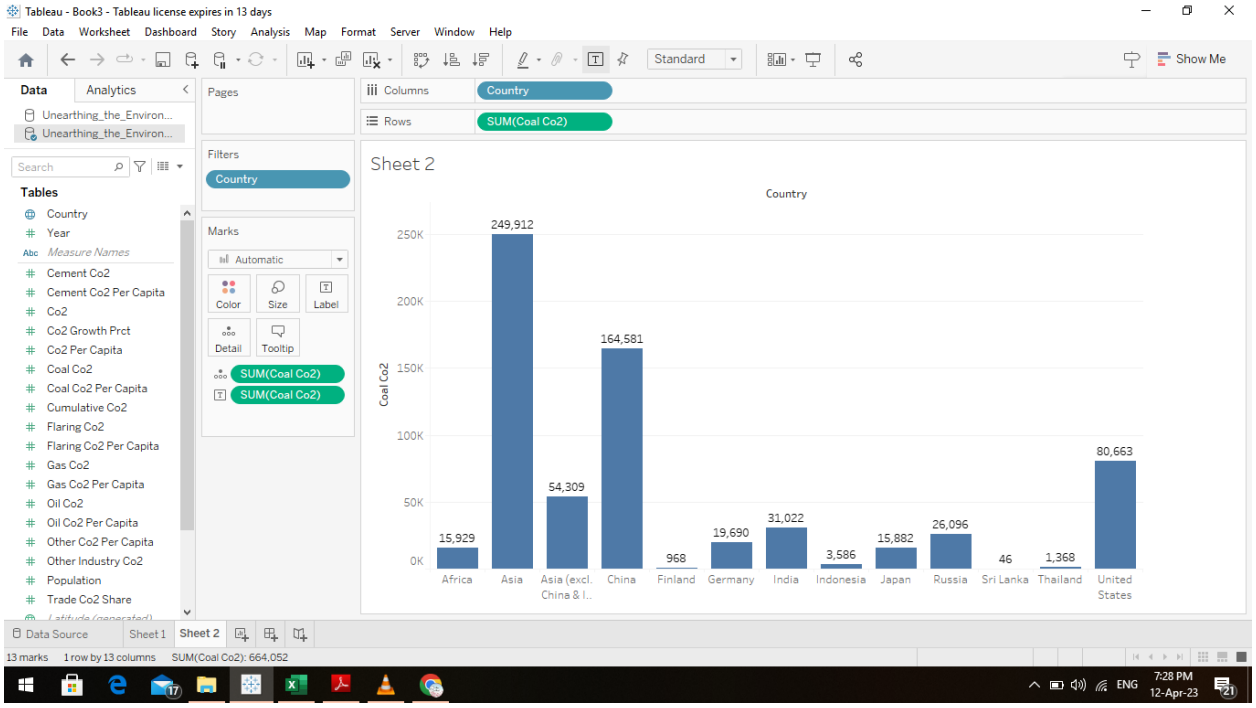
SUM(Cement Co2): 134,685
ENG
7:19 PM
12-Apr-23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File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data Analytics
Pages
Columns Country
Rows SUM(Coal Co2)
Filters
Country
Marks
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Label
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Tooltip
SUM(Coal Co2)
SUM(Coal Co2)
Sheet 2
Country
Coal Co2
250K
200K
150K
100K
50K
0K
249,912
164,581
80,663
54,309
31,022
26,096
19,690
15,929
15,882
3,586
968
46
1,368
Africa
Asia
Asia (excl. China & I..
China
Finland
Germany
India
Indonesia
Japan
Russia
Sri Lanka
Thailand
United States
Tables
Country
Year
Measure Names
Cement Co2
Cement Co2 Per Capita
Co2
Co2 Growth Prct
Co2 Per Capita
Coal Co2
Coal Co2 Per Capita
Cumulative Co2
Flaring Co2
Flaring Co2 Per Capita
Gas Co2
Gas Co2 Per Capita
Oil Co2
Oil Co2 Per Capita
Other Co2 Per Capita
Other Industry Co2
Population
Trade Co2 Share
Data Source
Sheet 1
Sheet 2
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ENG
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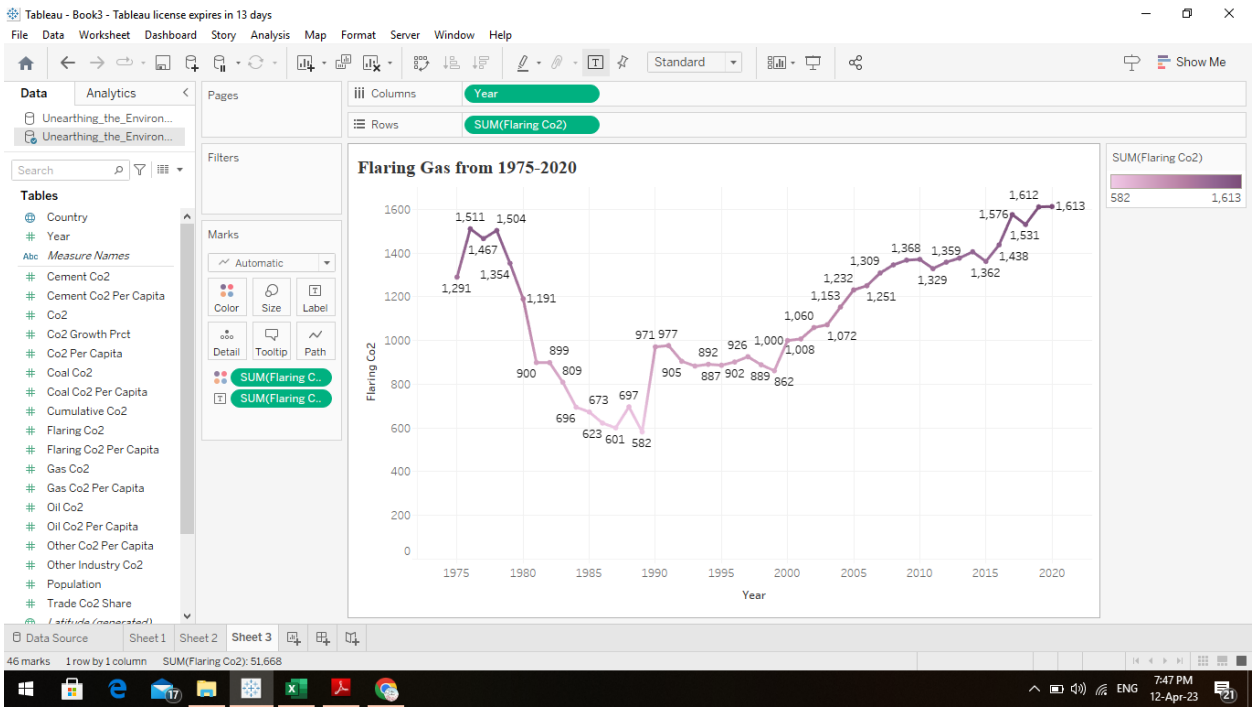
12-Apr-23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Coal Co2 Per Capita
Cumulative Co2
Flaring Co2
Flaring Co2 Per Capita
Gas Co2
Gas Co2 Per Capita
Oil Co2
Oil Co2 Per Capita
Other Co2 Per Capita
Other Industry Co2
Population
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SUM(Flaring C..
Columns
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Rows
SUM(Flaring Co2)
Flaring Gas from 1975-2020
Flaring Co2
Year
SUM(Flaring Co2)
582
1,613
Data Source
Sheet 1
Sheet 2
Sheet 3
46 marks
1 row by 1 column
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ENG
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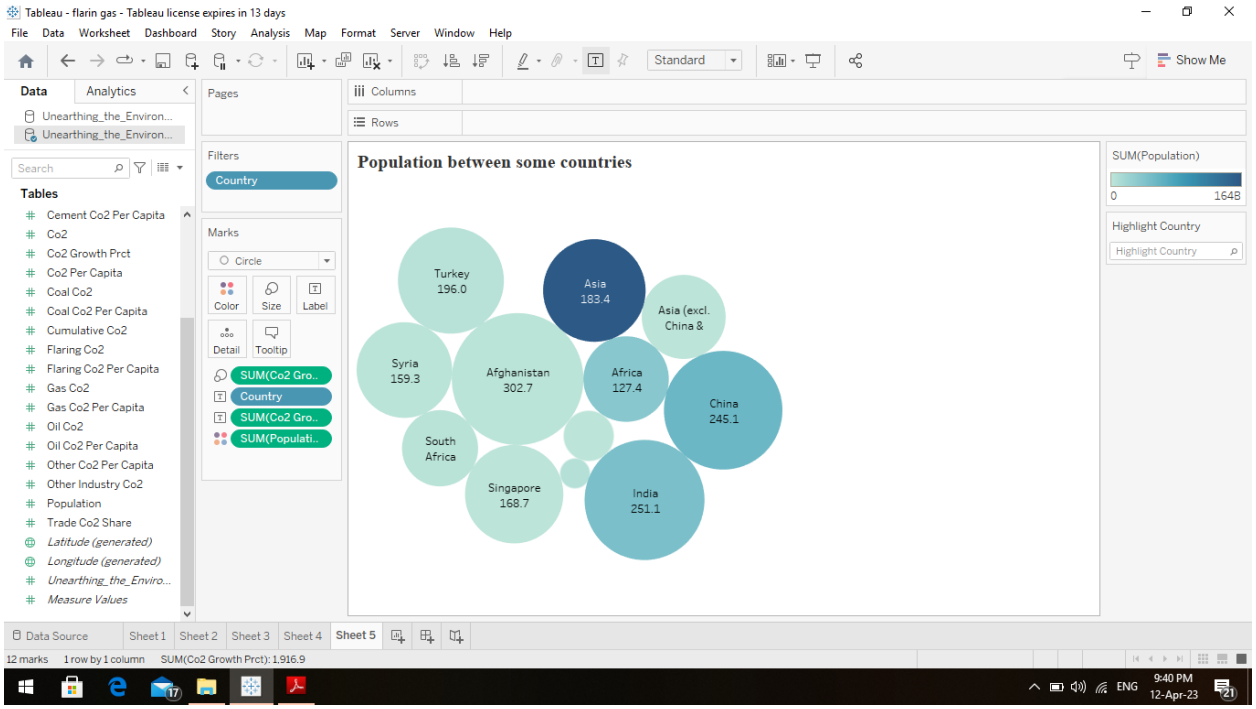
12-Apr-23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Gas Co2
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Other Co2 Per Capita
Other Industry Co2
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Tooltip
SUM(Co2 Gro..
Country
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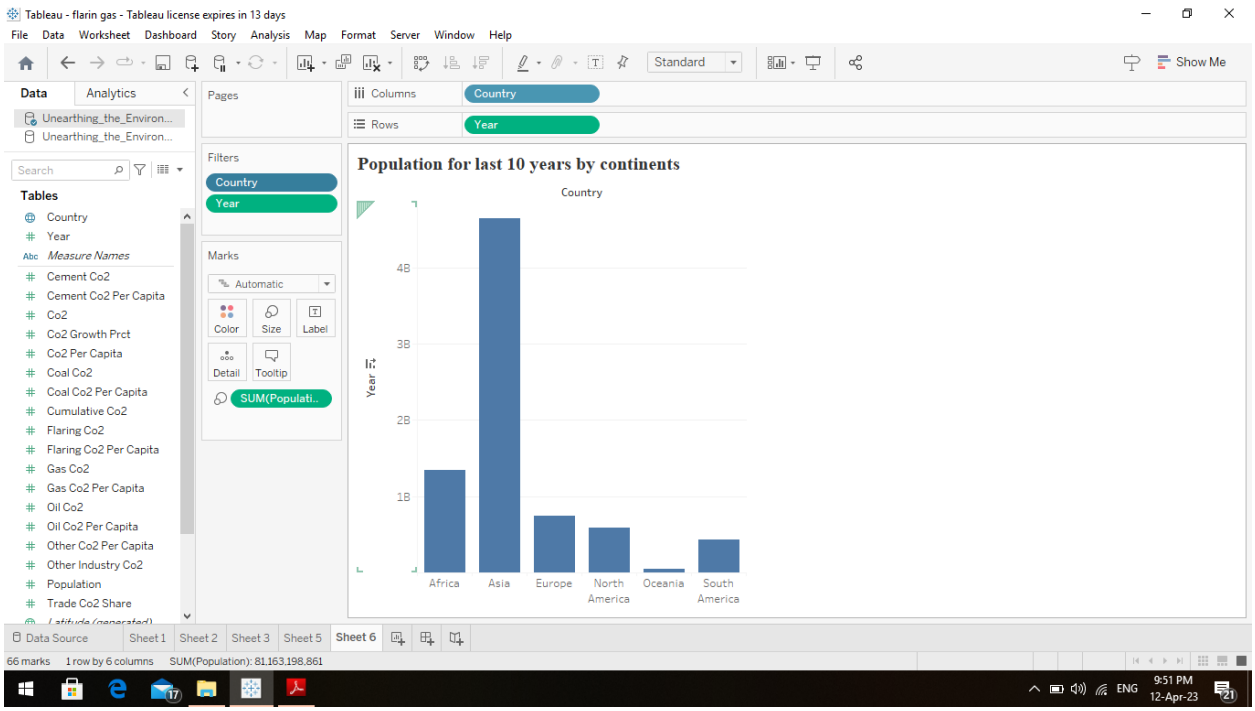
Columns
Rows
Population between some countries
Turkey 196.0
Asia 183.4
Asia (excl. China &
Syria 159.3
Afghanistan 302.7
Africa 127.4
China 245.1
South Africa
Singapore 168.7
India 251.1
SUM(Population)
0
1648
Highlight Country
Highlight Country
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
12 marks
1 row by 1 column
SUM(Co2 Growth Prct): 1,916.9
ENG
9:40 PM
12-Apr-23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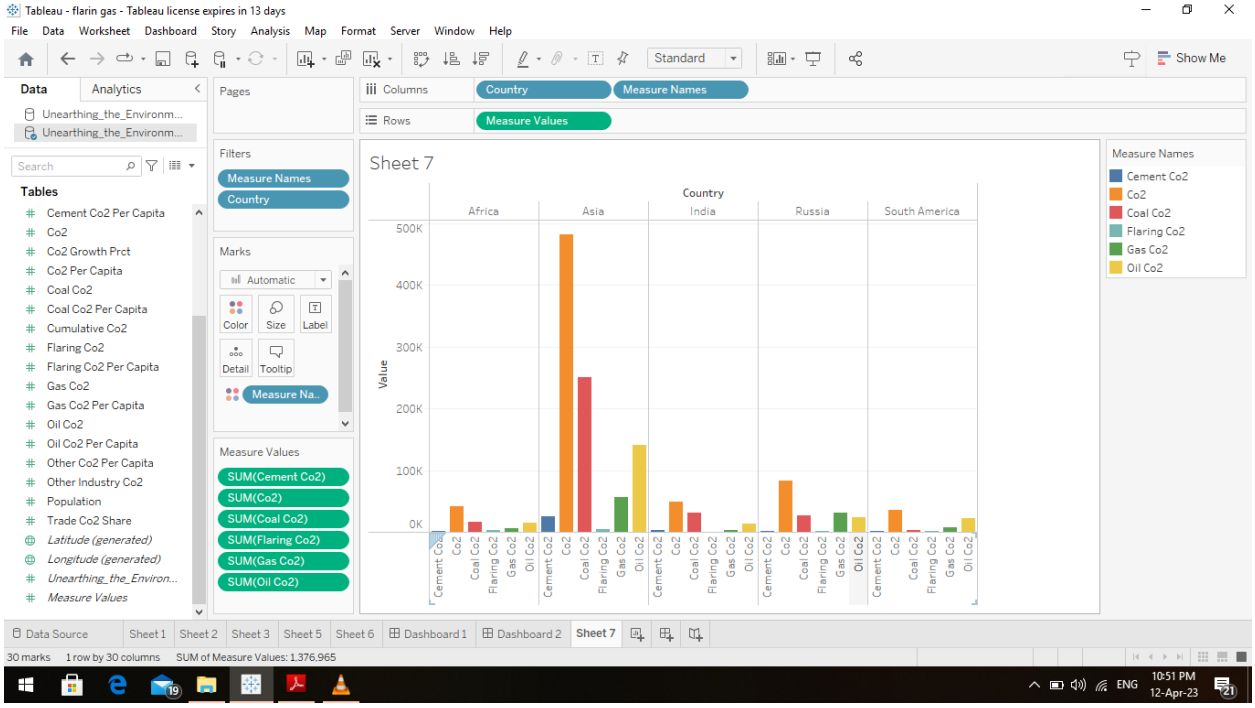
Co2 Growth Prct
Co2 Per Capita
Coal Co2
Coal Co2 Per Capita
Cumulative Co2
Flaring Co2
Flaring Co2 Per Capita
Gas Co2
Gas Co2 Per Capita
Oil Co2
Oil Co2 Per Capita
Other Co2 Per Capita
Other Industry Co2
Population
Trade Co2 Share
Population for last 10 years by continents
Country
Year
4B
3B
2B
1B
Africa
Asia
Europe
North America
Oceania
South America
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 5
Sheet 6
66 marks
1 row by 6 columns
SUM(Population): 81,163,198,861
ENG
9:51 PM
12-Apr-23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Measure Values
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SUM(Co2)
SUM(Coal Co2)
SUM(Flaring Co2)
SUM(Gas Co2)
SUM(Oil Co2)
Search
Tables
Cement Co2 Per Capita
Co2
Co2 Growth Prct
Co2 Per Capita
Coal Co2
Coal Co2 Per Capita
Cumulative Co2
Flaring Co2
Flaring Co2 Per Capita
Gas Co2
Gas Co2 Per Capita
Oil Co2
Oil Co2 Per Capita
Other Co2 Per Capita
Other Industry Co2
Population
Trade Co2 Share
Latitude (generated)
Longitude (generated)
Measure Values
Sheet 7
Country
Africa
Asia
India
Russia
South America
Value
500K
400K
300K
200K
100K
0K
Measure Names
Cement Co2
Co2
Coal Co2
Flaring Co2
Gas Co2
Oil Co2
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 5
Sheet 6
Dashboard 1
Dashboard 2
Sheet 7
30 marks
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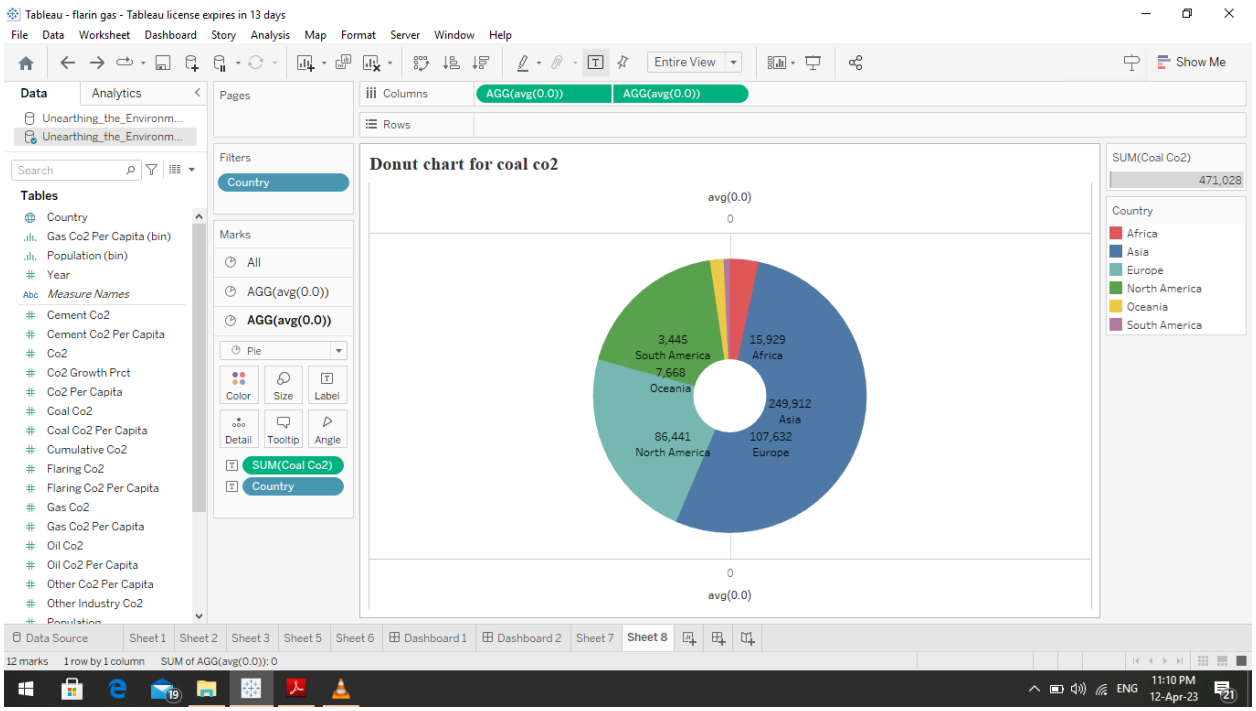
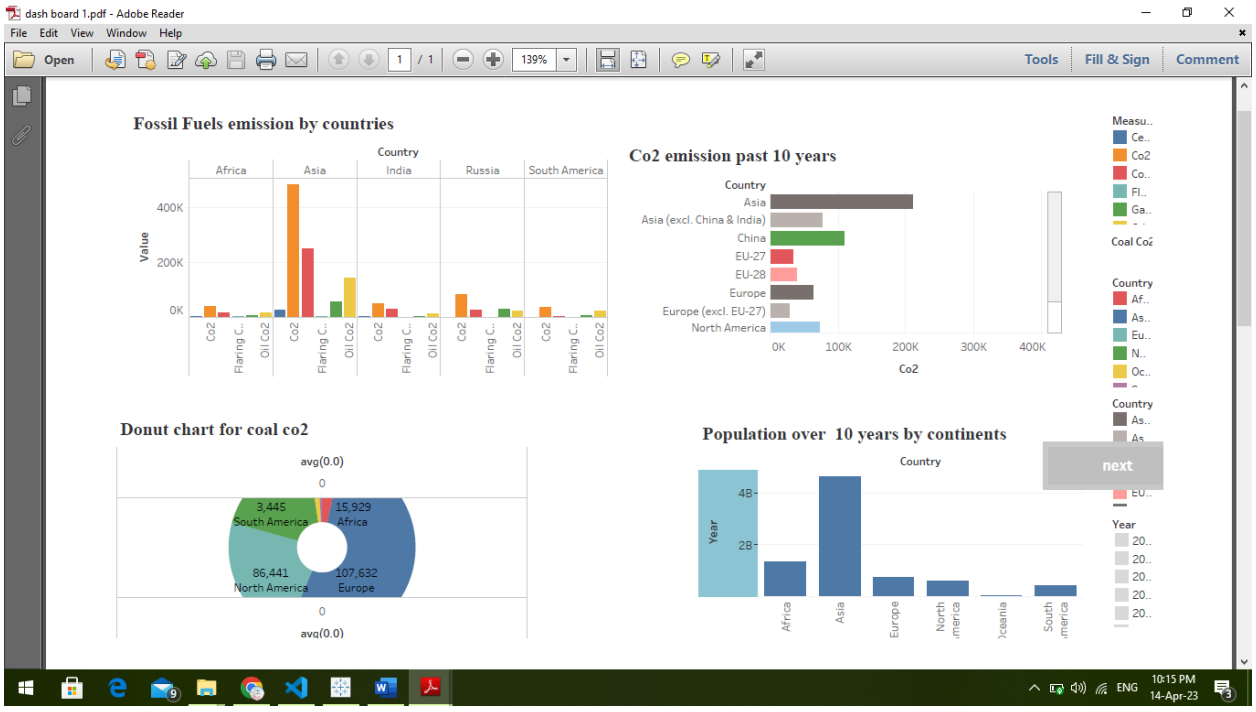
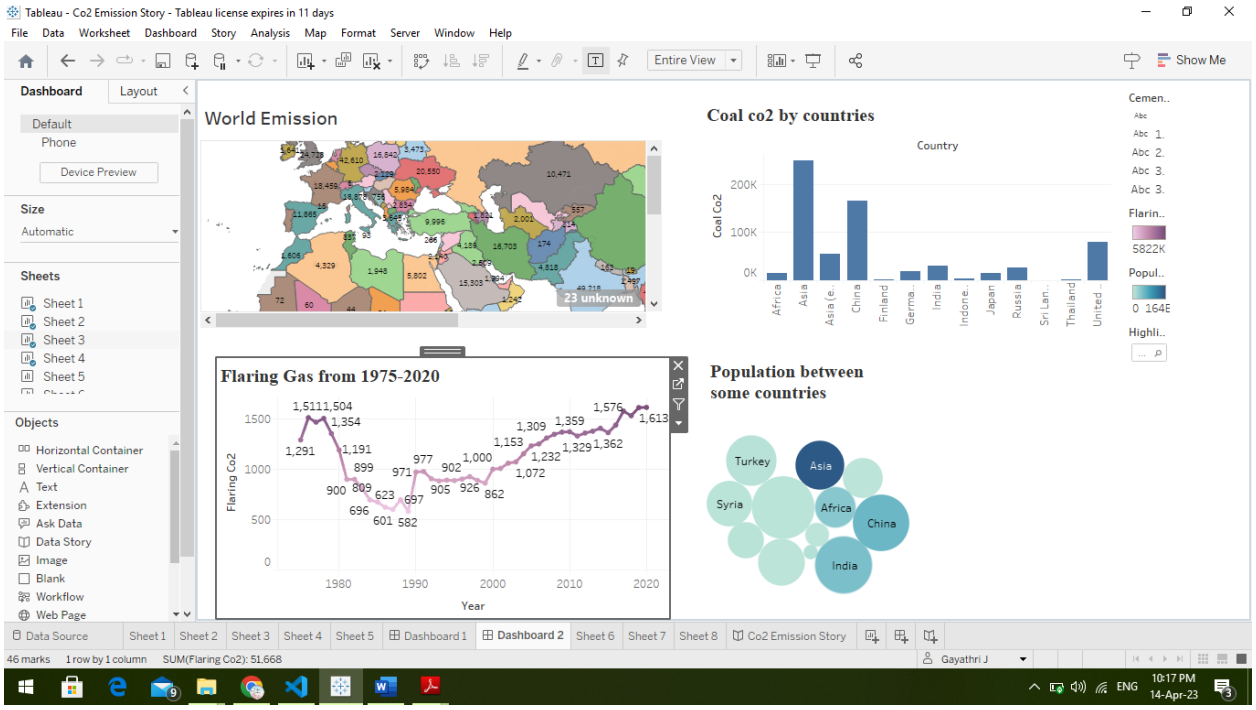
ENG
10:51 PM
12-Apr-23

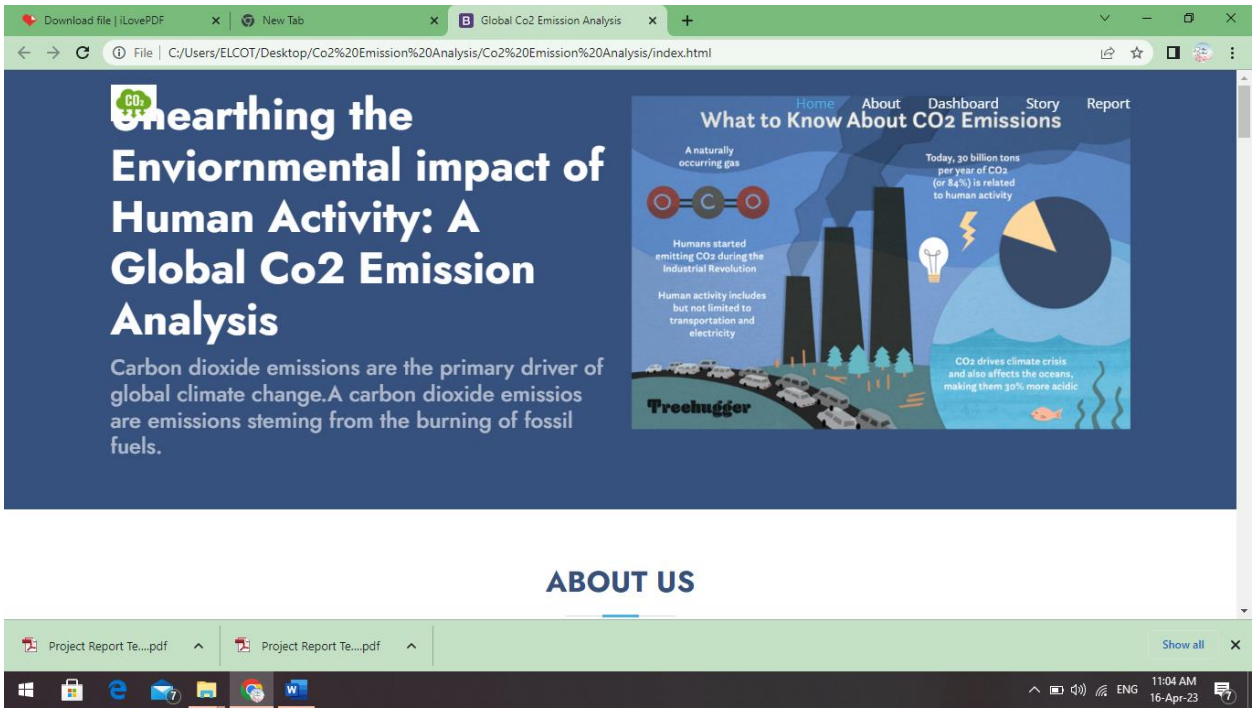


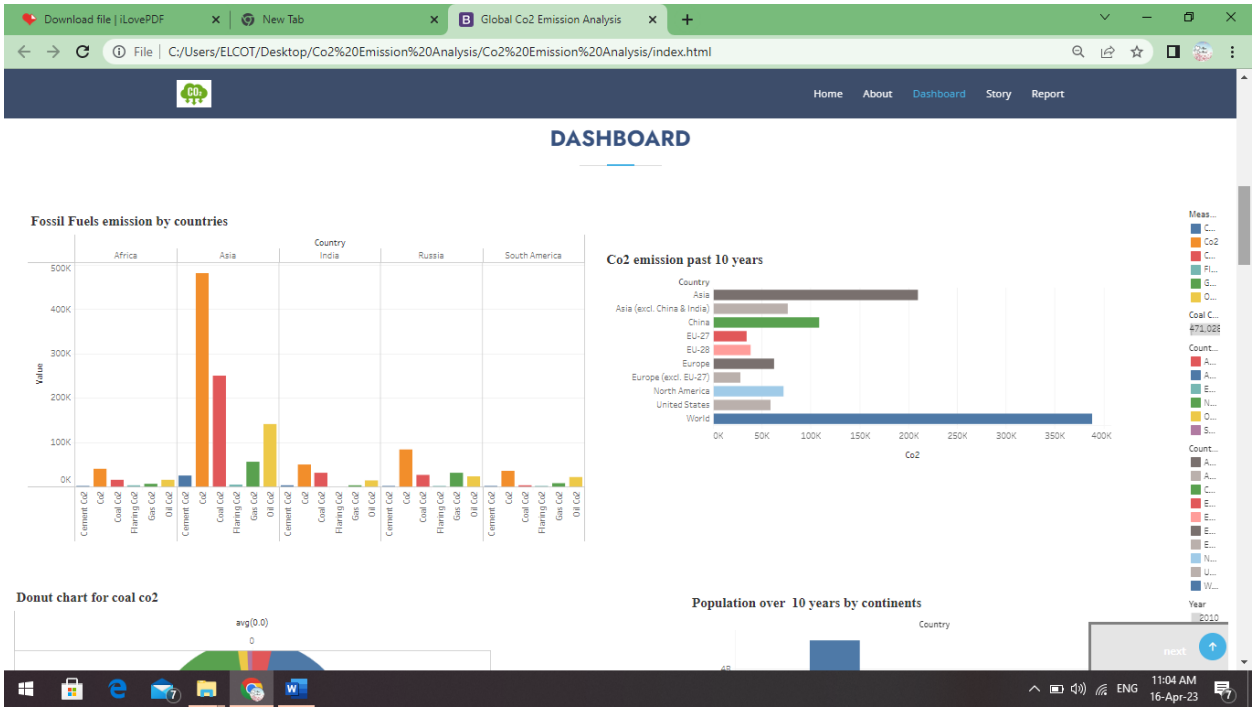
Output for Dashboards

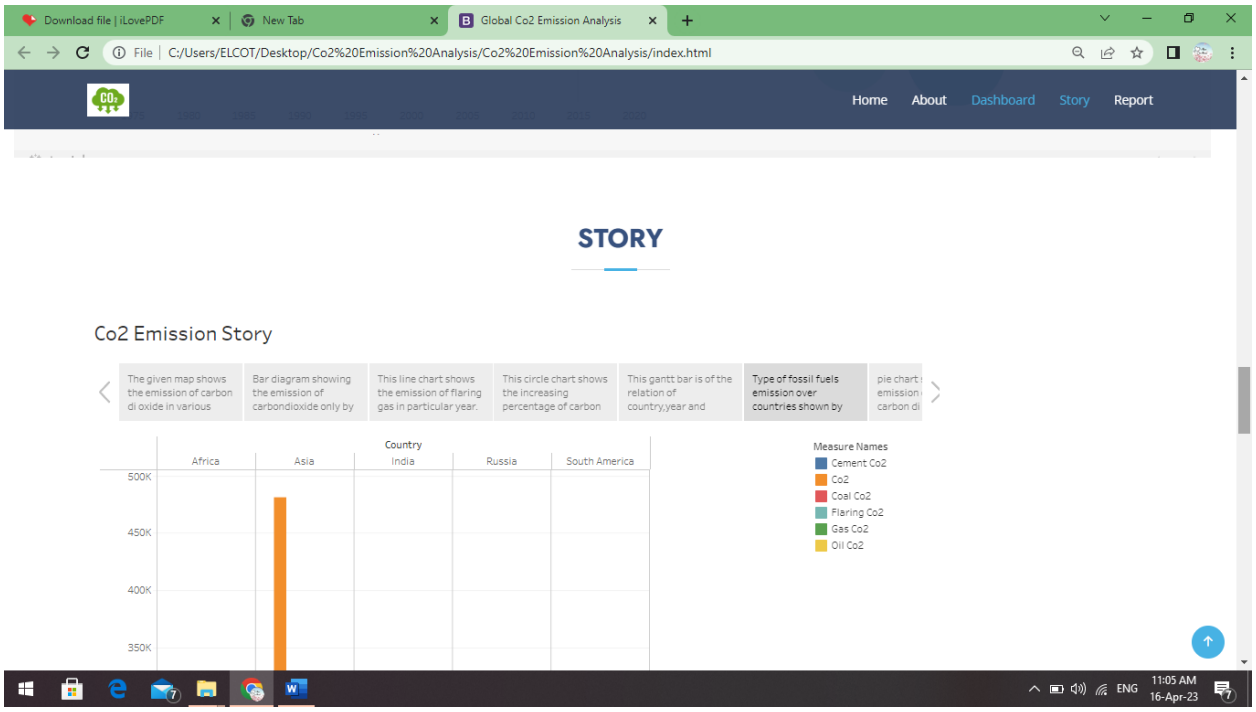




Web Integration







4. ADVANTAGES AND DISADVATAGES

Advantages

- Carbon dioxide is an important greenhouse gas that helps to trap heat in our atmosphere. Without it, out planet would be inhospitably cold.
- Reducing the usage of carbon dioxide emissions it improves air quality and benefits human health.

Disadvantages

- Co2 emission has a negative impact on the environment in multiple wats, the major cause of human-induced climate change, it contributes to urban air pollution, it leads to toxic acid rain.
- Exposure to Co2 can produce a health affects. They may include headaches, dizziness, difficulty breathing, coma, asphyxia.

5. APPLICATIONS

This project survey would also explore that any existing research on Co2 emission specifically and would aim to identify any challenges or opportunities that the countries can opt to reduce emission.

6. CONCLUSION

Asia has the highest range to emit the Co2 over past year. By using the charts represent Co2 emission are done and which country makes lot of emission. China has consume the most Co2 emission per capita.

7. FUTURE SCOPE

The future scope of this project is to reduce the usage of Co2 emission and alternative source for using fossil fuels by bioalcohol ,biodiseal,non fossil methane , propane.

8.APPENDIX

Source code:
sfile:///C:/Users/ELCOT/Desktop/Co2%20Emission%20Analysis/Co2%20Emission%20Analysis/index.html