Project Report

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 activities. CO2 Emission refers to the Carbon Dioxide emitted throughout the world. For this analysis we will be focusing on CO2 Emissions and its effect on the world we live in as well 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. This will help researchers and environment experts to predict global warming. So countries should set a goal to decrease this amount yearly. Analysing Global Co2 Emission across countries from 1975 to 2020. This dataset contains a record of Co2 Emission by each Country and Region of Earth, here we are going to analyse and visualise Country wise, region wise and overall Co2 emission on Earth.

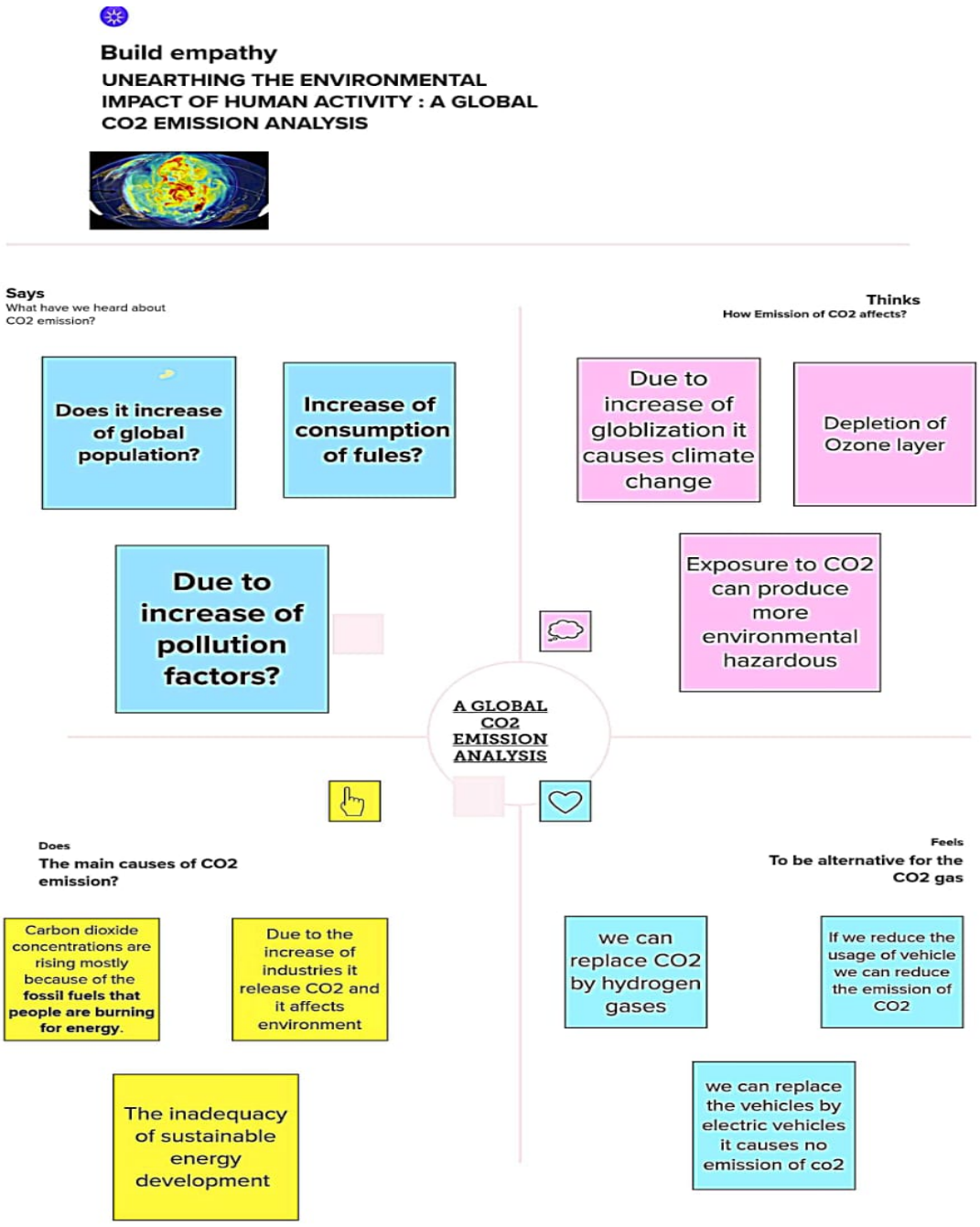
1.2 Purpose

Global warming is the largest problem nowadays faced by this generation this is due to emission of CO2. This causes climatic changes, Ozone depletion, and etc. The use of this project to here we are going to analyse and visualise Country wise, Region wise and Overall CO2 Emission on Earth and we are providing the solutions to reduce this emission. By reducing the emission of CO2 we can live a pollution free life and green environment, pay a way of green environment to future generation.

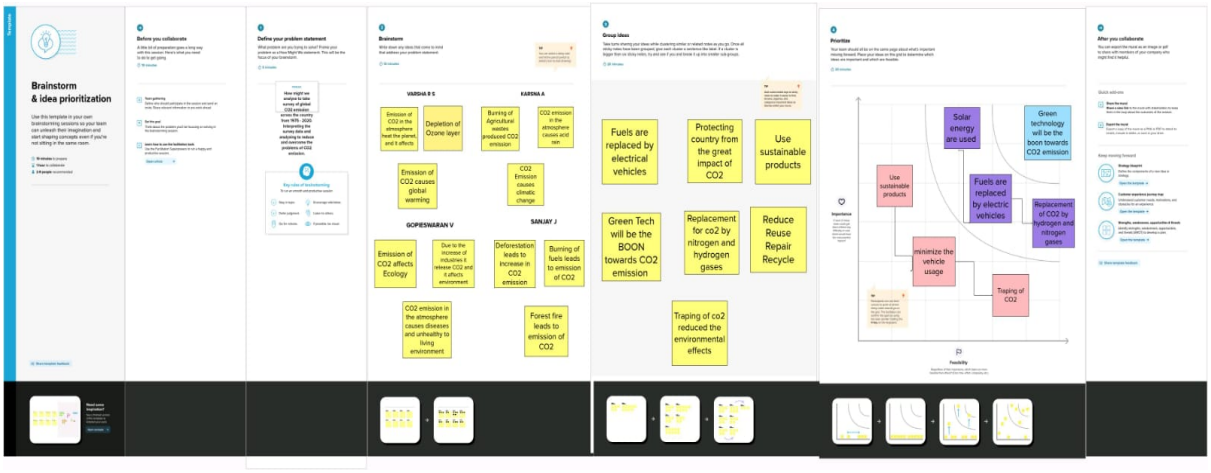
2. PROBLEM DEFINITION AND DESIGN THINKING

2.1 Empathy map

The Empathy Image for the project is given below:

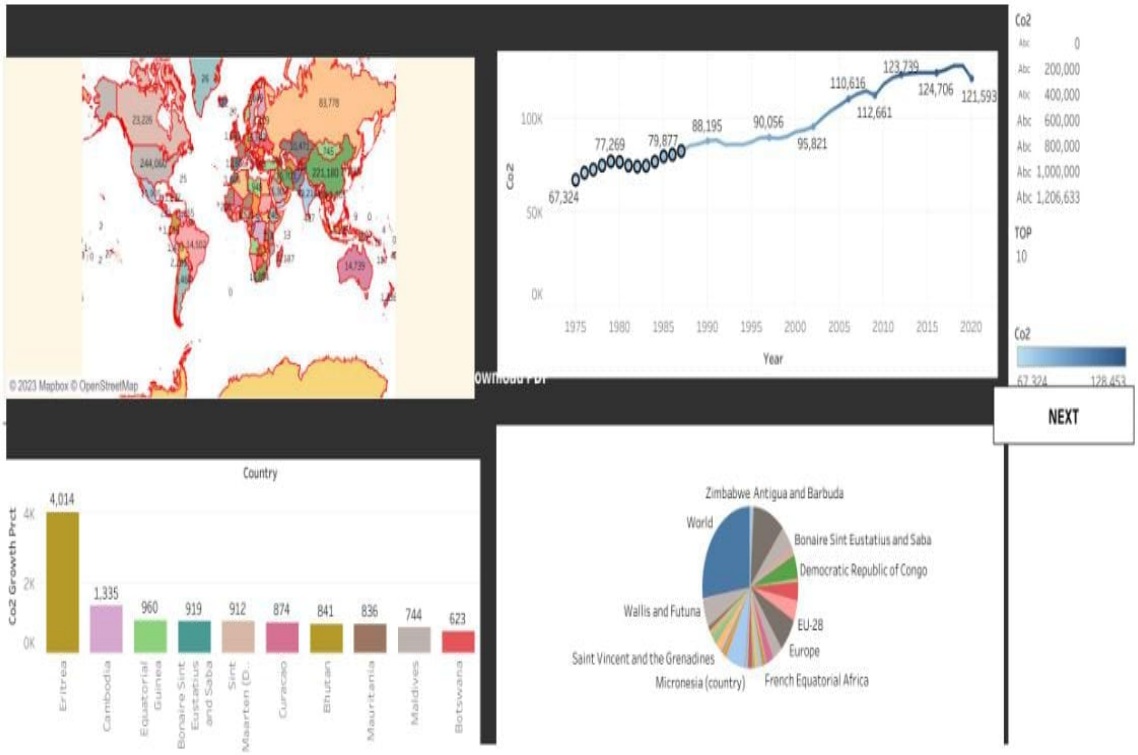


2.2 Ideation and Brainstorming Map

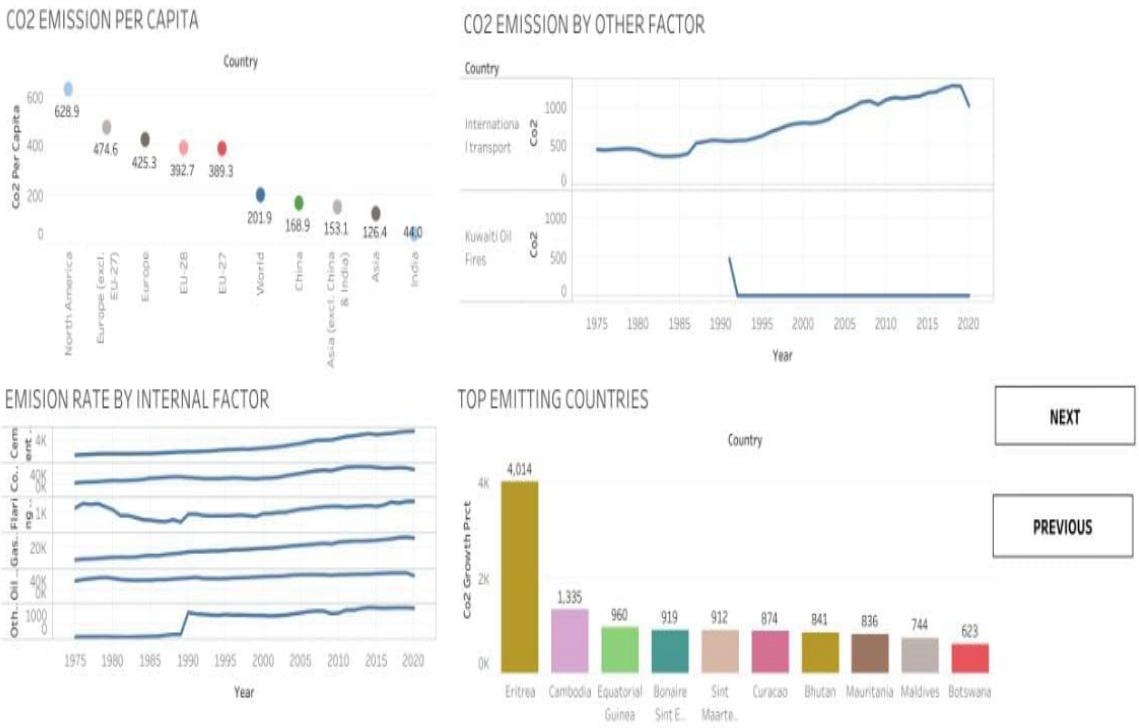


3. RESULTS

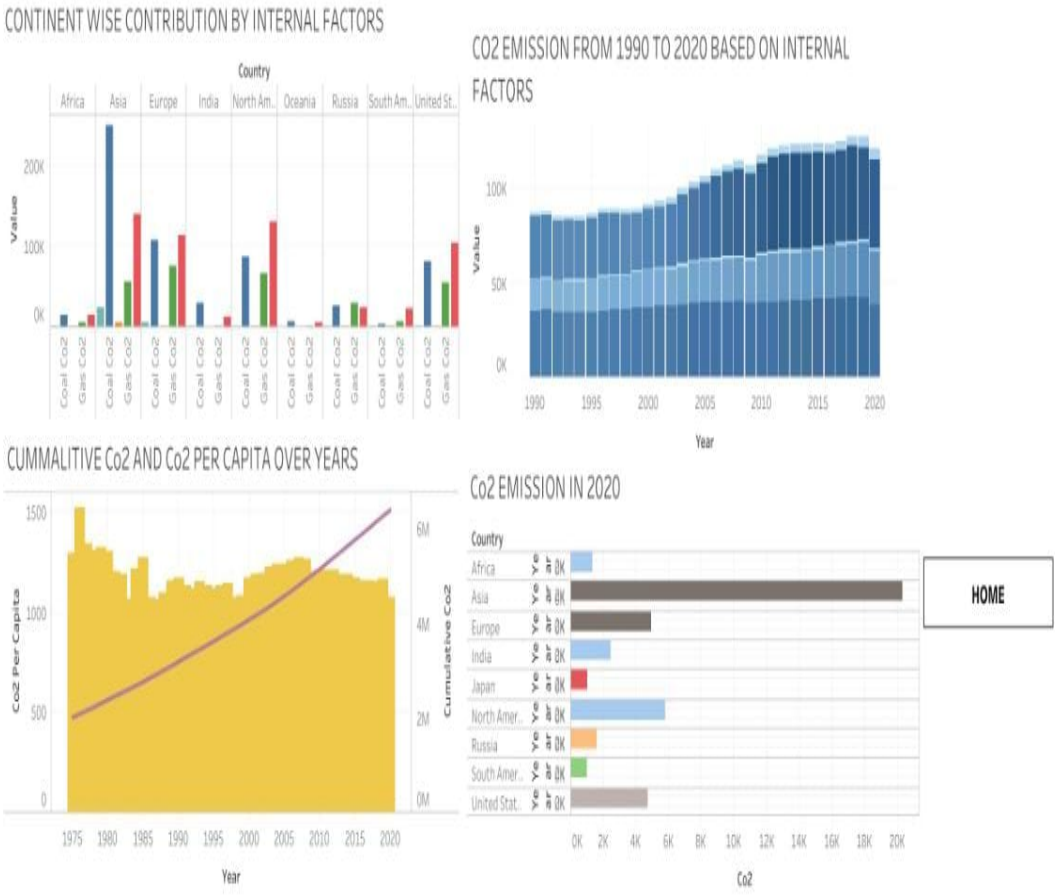
Dashboard 1



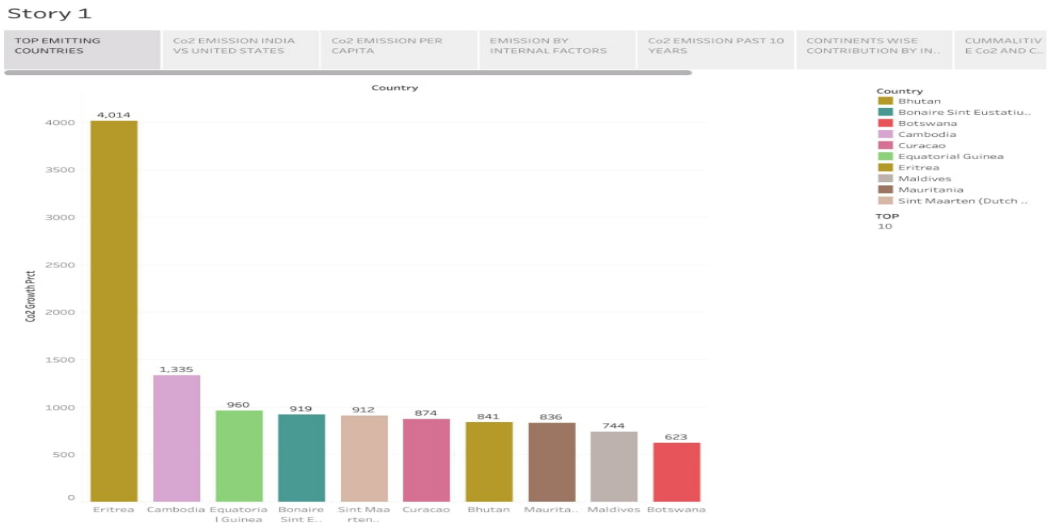
Dashboard 2


CO2 EMISSION PER CAPITA
Country
Co2 Per Capita
628.9
474.6
425.3
392.7
389.3
201.9
168.9
153.1
126.4
44.0
North America
Europe (excl. EU-27)
Europe
EU-28
EU-27
World
China
Asia (excl. China & India)
Asia
India
CO2 EMISSION BY OTHER FACTOR
Country
International transport
Kuwaiti Oil Fires
Co2
1975 1980 1985 1990 1995 2000 2005 2010 2015 2020
Year
EMISION RATE BY INTERNAL FACTOR
Cement ..
Flari Co.. ng ..
Gas..
Oil ..
Oth..
Year
TOP EMITTING COUNTRIES
Country
Co2 Growth Prct
4,014
1,335
960
919
912
874
841
836
744
623
Eritrea
Cambodia
Equatorial Guinea
Bonaire Sint E..
Sint Maarte..
Curacao
Bhutan
Mauritania
Maldives
Botswana
NEXT
PREVIOUS

Dashboard 3

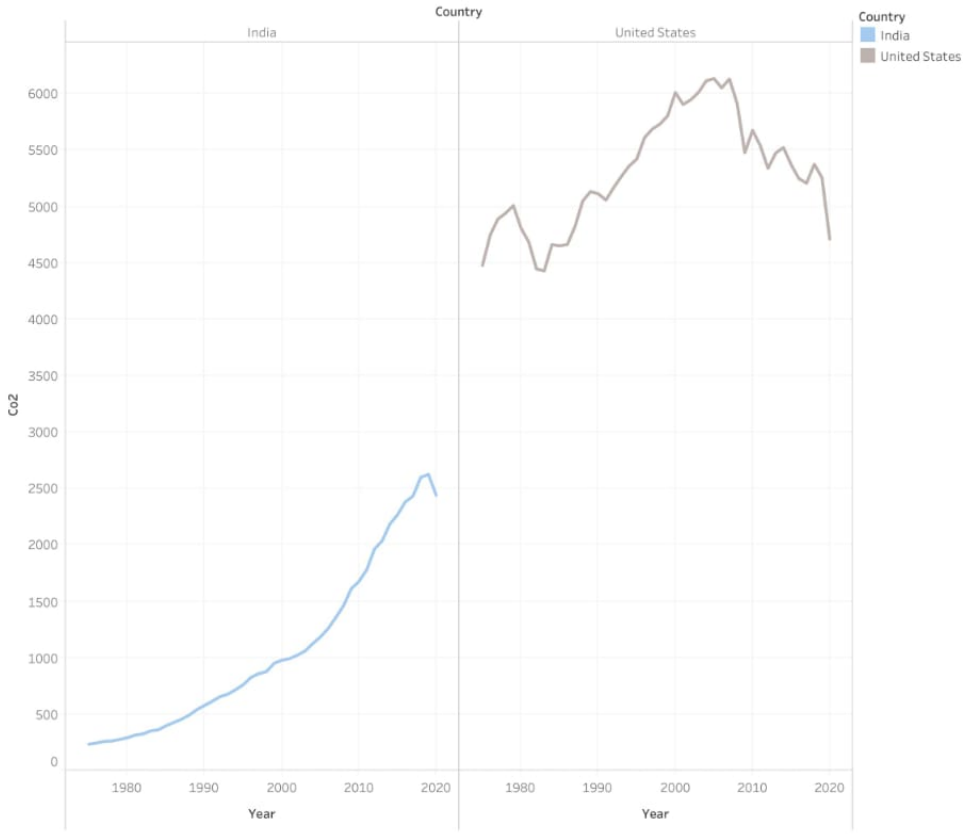

CONTINENT WISE CONTRIBUTION BY INTERNAL FACTORS
Country
Africa
Asia
Europe
India
North Am..
Oceania
Russia
South Am..
United St..
Value
200K
100K
0K
Coal Co2
Gas Co2
CO2 EMISSION FROM 1990 TO 2020 BASED ON INTERNAL FACTORS
Value
100K
50K
0K
1990
1995
2000
2005
2010
2015
2020
Year
CUMMALITIVE Co2 AND Co2 PER CAPITA OVER YEARS
Co2 Per Capita
1500
1000
500
0
Cumulative Co2
6M
4M
2M
0M
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Year
Co2 EMISSION IN 2020
Country
Africa
Asia
Europe
India
Japan
North Amer..
Russia
South Amer..
United Stat..
Year
0K
2K
4K
6K
8K
10K
12K
14K
16K
18K
20K
Co2
HOME

Story


Story 1
TOP EMITTING COUNTRIES
Co2 EMISSION INDIA VS UNITED STATES
Co2 EMISSION PER CAPITA
EMISSION BY INTERNAL FACTORS
Co2 EMISSION PAST 10 YEARS
CONTINENTS WISE CONTRIBUTION BY IN..
CUMMALITIV E Co2 AND C..
Country
Co2 Growth Prct
4,014
1,335
960
919
912
874
841
836
744
623
Eritrea
Cambodia
Equatorial Guinea
Bonaire Sint E..
Sint Maarten..
Curacao
Bhutan
Maurita..
Maldives
Botswana
Country
Bhutan
Bonaire Sint Eustatiu..
Botswana
Cambodia
Curacao
Equatorial Guinea
Eritrea
Maldives
Mauritania
Sint Maarten (Dutch ..
TOP
10

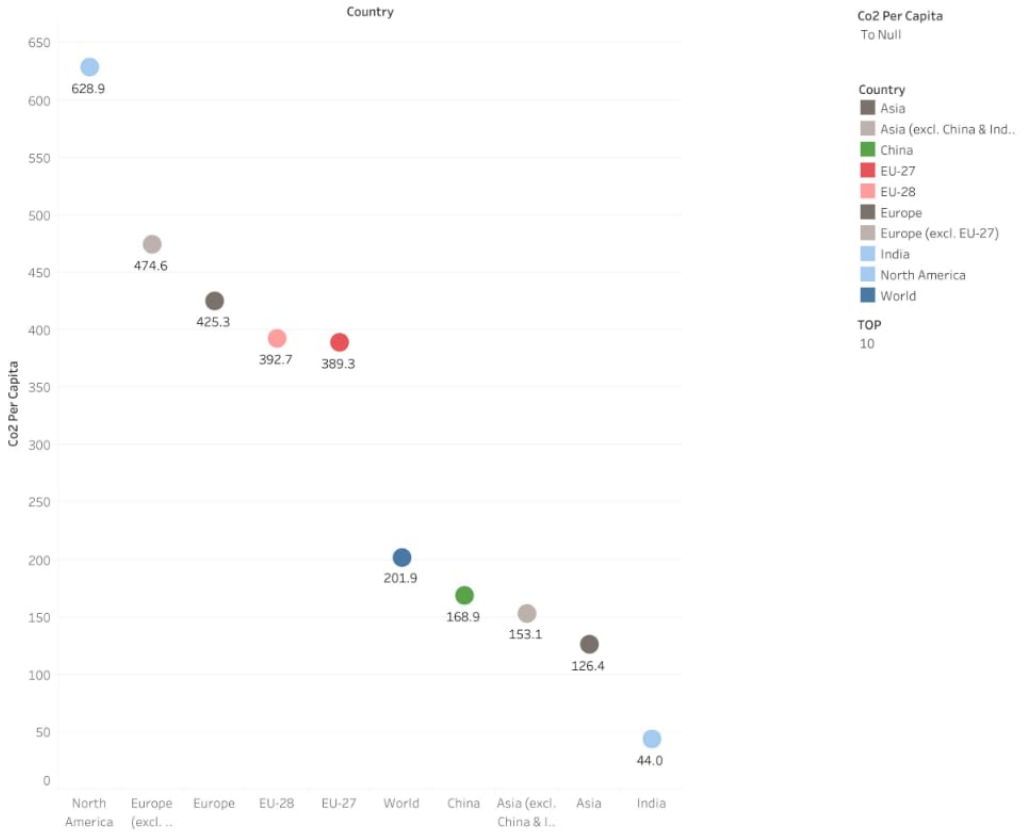
Story 1

TOP EMITTING COUNTRIES | Co2 EMISSION INDIA VS UNITED STATES | Co2 EMISSION PER CAPITA | EMISSION BY INTERNAL FACTORS | Co2 EMISSION PAST 10 YEARS | CONTINENTS WISE CONTRIBUTION BY IN.. | CUMMALITIVE Co2 AND C..



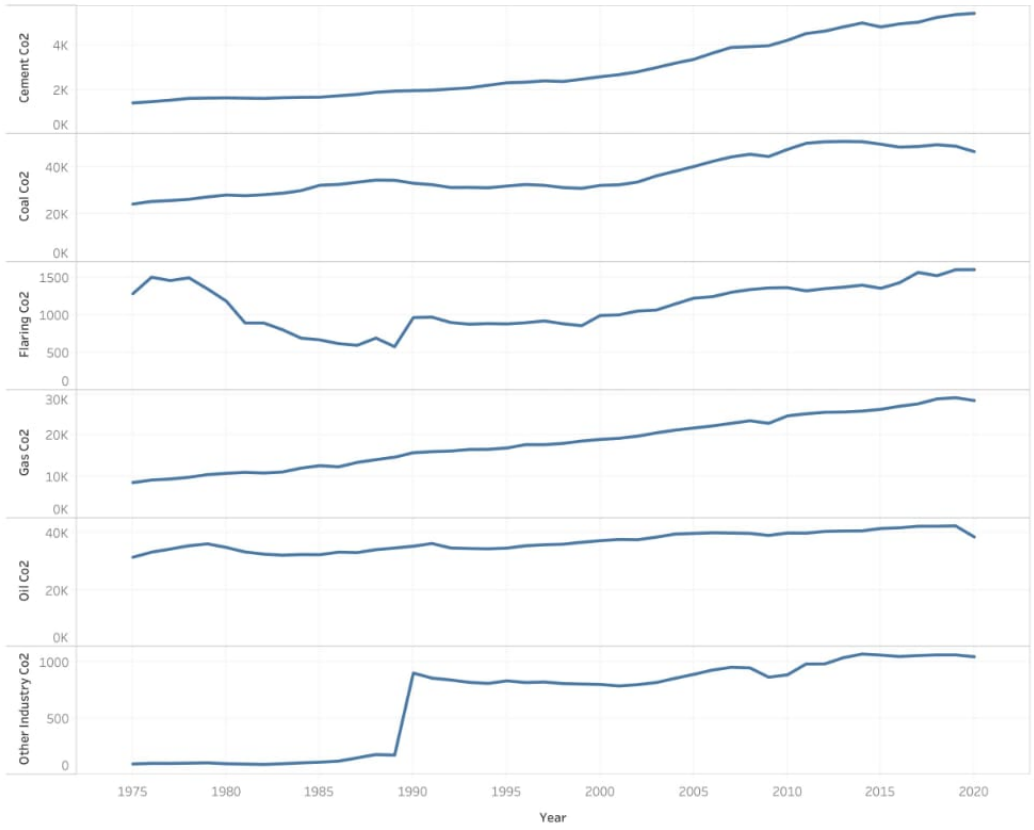
Story 1

TOP EMITTING COUNTRIES | Co2 EMISSION INDIA VS UNITED STATES | **Co2 EMISSION PER CAPITA** | EMISSION BY INTERNAL FACTORS | Co2 EMISSION PAST 10 YEARS | CONTINENTS WISE CONTRIBUTION BY IN.. | CUMMALITIVE Co2 AND C..



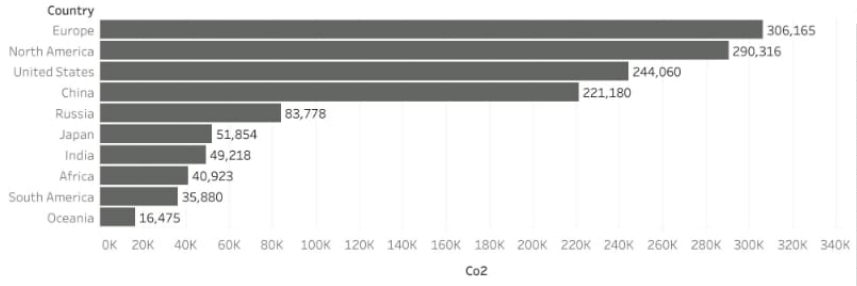
Story 1

TOP EMITTING COUNTRIES | Co2 EMISSION INDIA VS UNITED STATES | Co2 EMISSION PER CAPITA | EMISSION BY INTERNAL FACTORS | Co2 EMISSION PAST 10 YEARS | CONTINENTS WISE CONTRIBUTION BY IN.. | CUMMALITIVE Co2 AND Co2 PER CAPIT..



Story 1

Co2 EMISSION INDIA VS UNITE.. | Co2 EMISSION PER CAPITA | EMISSION BY INTERNAL FACTORS | **Co2 EMISSION PAST 10 YEARS** | CONTINENTS WISE CONTRIBUTION BY IN.. | CUMMALITIVE Co2 AND Co2 PER CAPITA .. | CHINA VS INDIA INTERNAL FACTORS



Country

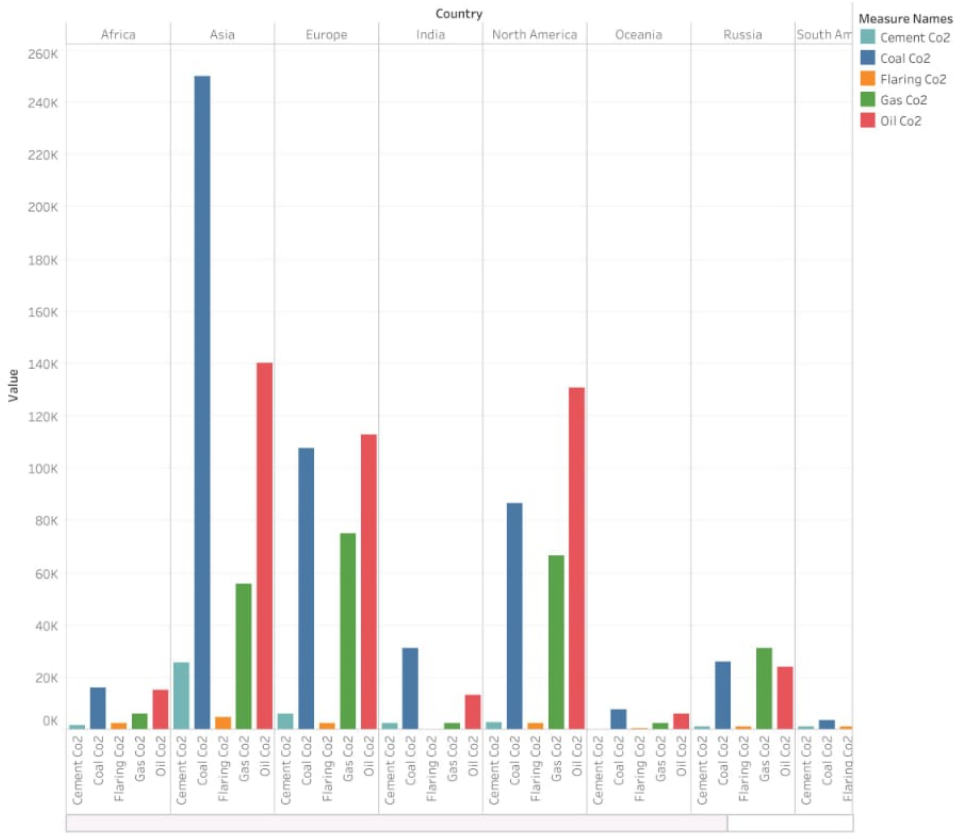
- ~~Afghanistan~~
- Africa
- ~~Albania~~
- ~~Algeria~~
- ~~Andorra~~
- ~~Angola~~
- ~~Anguilla~~
- ~~Antarctica~~
- ~~Antigua and Barbuda~~
- ~~Argentina~~
- ~~Armenia~~
- ~~Aruba~~
- ~~Asia~~
- ~~Asia (excl. China & Ind..~~
- ~~Australia~~
- ~~Austria~~
- ~~Azerbaijan~~
- ~~Bahamas~~
- ~~Bahrain~~
- ~~Bangladesh~~
- ~~Barbados~~
- ~~Belarus~~
- ~~Belgium~~
- ~~Belize~~
- ~~Benin~~
- ~~Bermuda~~
- ~~Bhutan~~
- ~~Bolivia~~
- ~~Bonaire Sint Eustatiu..~~
- ~~Bosnia and Herzegovi..~~
- ~~Botswana~~
- ~~Brazil~~
- ~~British Virgin Islands~~
- ~~Brunei~~
- ~~Bulgaria~~
- ~~Burkina Faso~~
- ~~Burundi~~
- ~~Cambodia~~

TOP

10

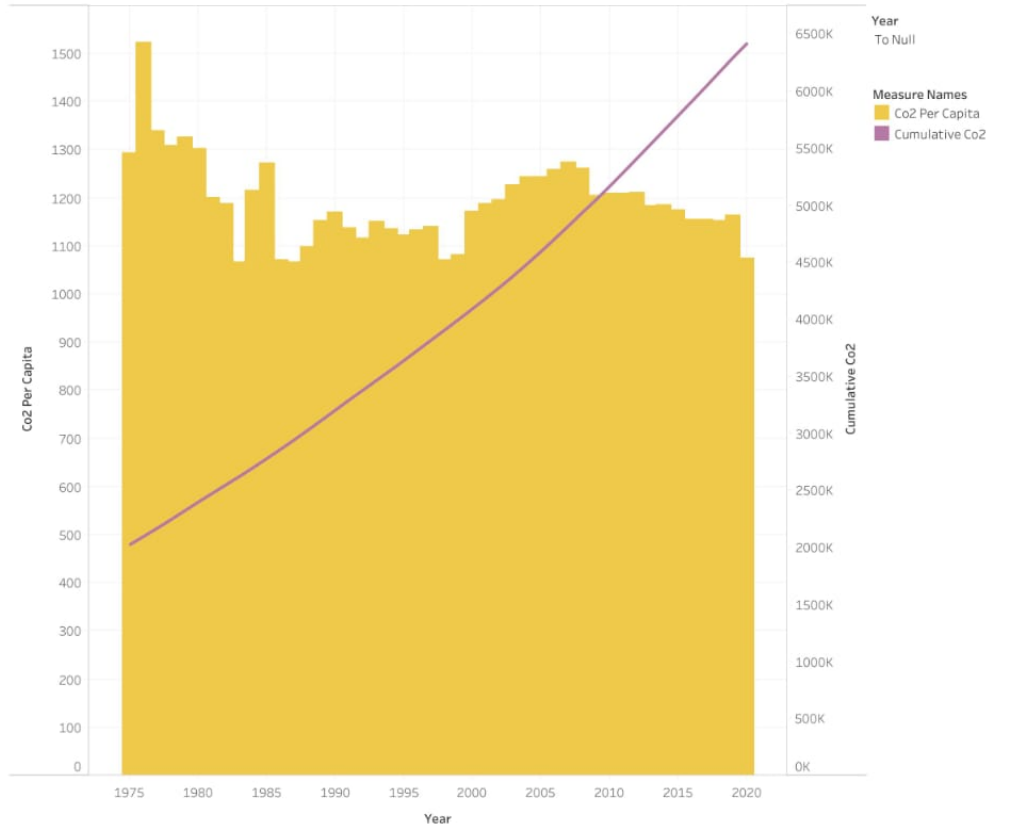
Story 1

Co2 EMISSION PER CAPITA | EMISSION BY INTERNAL FACTORS | Co2 EMISSION PAST 10 YEARS | CONTINENTS WISE CONTRIBUTION BY IN.. | CUMMALITIVE Co2 AND Co2 PER CAPITA .. | CHINA VS INDIA INTERNAL FACTORS | Co2 EMISSION BY 2020



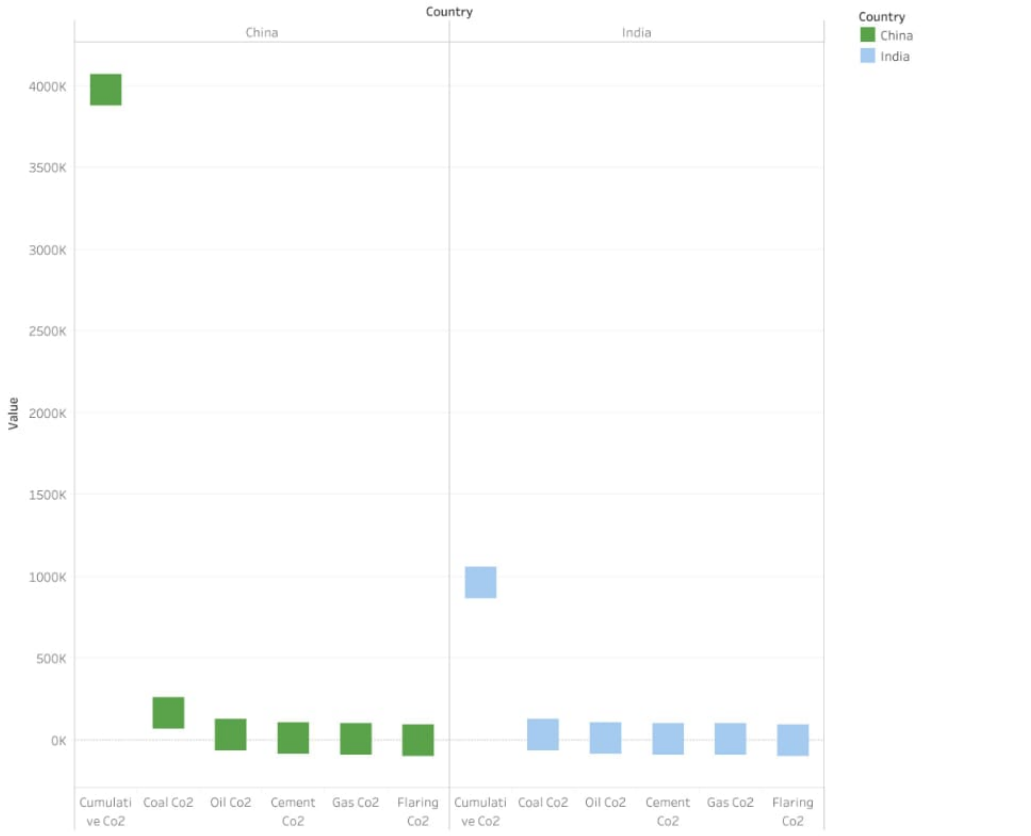
Story 1

EMISSION BY INTERNAL FACT.. | Co2 EMISSION PAST 10 YEARS | CONTINENTS WISE CONTRIBUTION BY IN.. | CUMMALITIVE Co2 AND Co2 PER CAPITA .. | CHINA VS INDIA INTERNAL FACTORS | Co2 EMISSION BY 2020 | OVERALL CONTRIBUTION BY ..



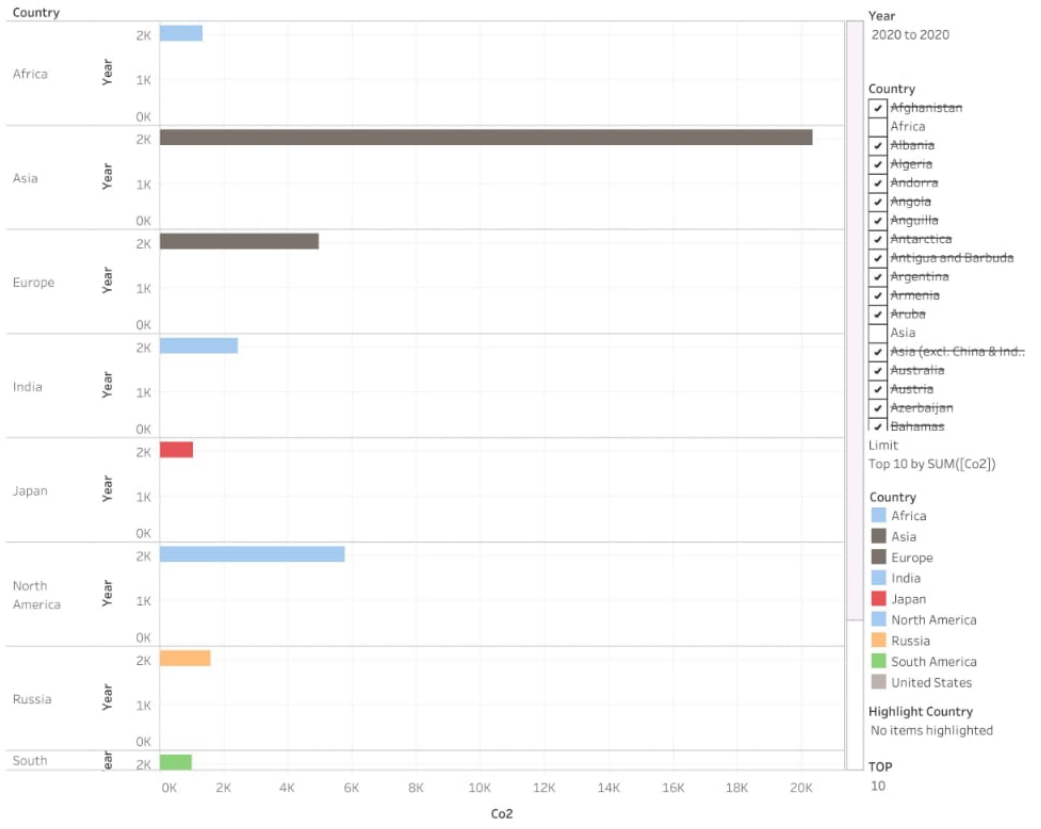
Story 1

EMISSION BY INTERNAL F.. | Co2 EMISSION PAST 10 YEARS | CONTINENTS WISE CONTRIBUTION BY IN.. | CUMMALITIVE Co2 AND Co2 PER CAPITA .. | CHINA VS INDIA INTERNAL FACTORS | Co2 EMISSION BY 2020 | OVERALL CONTRIBUTION BY C..



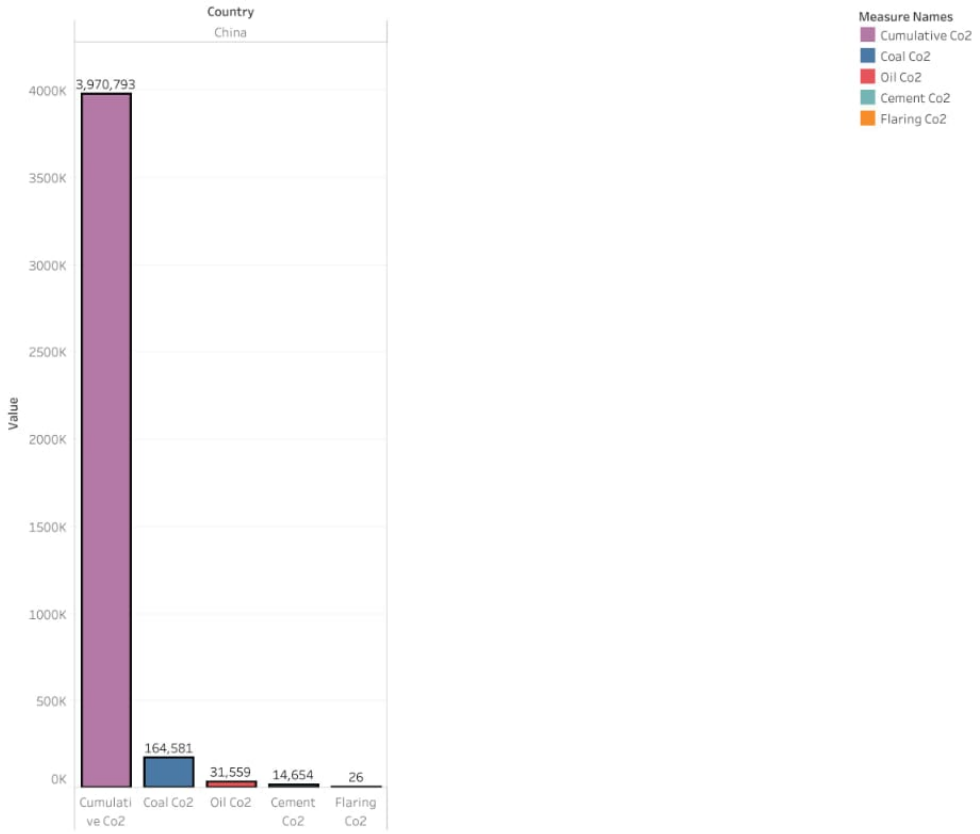
Story 1

EMISSION BY INTERNAL F.. | Co2 EMISSION PAST 10 YEARS | CONTINENTS WISE CONTRIBUTION BY IN.. | CUMMALITIVE Co2 AND Co2 PER CAPITA .. | CHINA VS INDIA INTERNAL FACTORS | **Co2 EMISSION BY 2020** | OVERALL CONTRIBUTION BY C..



Story 1

EMISSION BY INTERNAL F.. | Co2 EMISSION PAST 10 YEARS | CONTINENTS WISE CONTRIBUTION BY IN.. | CUMMALITIVE Co2 AND Co2 PER CAPITA .. | CHINA VS INDIA INTERNAL FACTORS | Co2 EMISSION BY 2020 | OVERALL CONTRIBUTION BY C..



4. Advantages and Disadvantages

Advantages:

- Plant growth can be increased in Arctic, Antarctic, Siberia, and other frozen regions. .
- The next ice age may be prevented from occurring.
- Less energy required to warm cold places.
- Longer growing seasons could mean increased agricultural production in Canada, Russia and Greenland
- Mountains become more visible

Disadvantages:

- Ocean circulation is disrupted and this can affect the climate, Long dry spells lead to desertification
- Changes to climate can lead to reduction in agricultural production causing food shortage and possible result can be starvation, malnutrition and increased death
- Higher sea level may cause deaths and disease from floods and property loss by evacuation
- Extinction of other species cause an imbalance in the ecosystem
- Water shortages in drought prone areas

5. APPLICATIONS

- Reduction of CO2 emission helps to pollution free world.
- It does not affect the ozone layer and not causes any health issues.
- If global warming is reduced the climate changes does not occur.
- Scope of more plant growth and milder climates in some frozen regions of the earth such as Siberia, Antarctic, and the Arctic.
- Fewer injuries or decreased death rate as a result of arctic conditions. The next ice age can be possibly prevented.

6. CONCLUSION

Global warming is the largest problem nowadays faced by this generation this is due to emission of CO2. This causes climatic changes, Ozone depletion, and etc.. here we are going to analyse and visualise Country wise, region wise and Overall CO2 Emission on Earth and we are providing the solutions to reduce this emission. So we first collect the dataset of the CO2 emission across the world. Started to analysing this dataset with the help of tableau public software with this we started to visualize the data and made a graph to understand the dataset . we made this dataset as dashboard and story graphs and converts this to web applications like HTML. So after analysing we came to know the emission of CO2 across the world and we came up with the solution to reduce the emission of CO2 the CO2 gases can be replaced by hydrogen gases, by using electric vehicles instead of fossil flues etc...By reducing emission of CO2 the global warming which do not the affects the ozone layer, it leads to green environment for future generation.

7. FUTURE SCOPE

If we started to use less pollution consumption it leads a green environment to future world. We live a peace full live with green environment and fresh air, healthy life, chemical free vegetables. We live without any diseases and long life.