UNEARTHING THE ENVIRONMENTAL IMPACT OF HUMAN ACTIVITY: A GLOBAL CO2 EMISSION ANALYSIS

PROJECT REPORT TEMPLATE

INTRODUCTION

Human activities are the main driver of increasing the emission of CO2 in the atmosphere which is very dangerous as it makes global warming more powerful day by day. Let us discuss about that,

1.1 Overview

Carbon dioxide is an important gas for life on the planet. (Remember our deep breath in and out?) It is crucial to maintaining the protective blanket that is Earth's atmosphere. Carbon dioxide is often called "C-O-2" (pronounced see-oh-two) and written as "CO2" because "C" stands for carbon and "O" stands for oxygen. Carbon dioxide is one of the primary greenhouse gases on Earth.

The global CO2 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 publicly available energy, economic and weather data. Combined with the methane emissions estimates published by the IEA and estimates of nitrous oxide and flaring related CO2 emissions, this new analysis shows that overall greenhouse gas emissions from energy rose to their highest ever level in 2021.

1.2 Purpose

USES

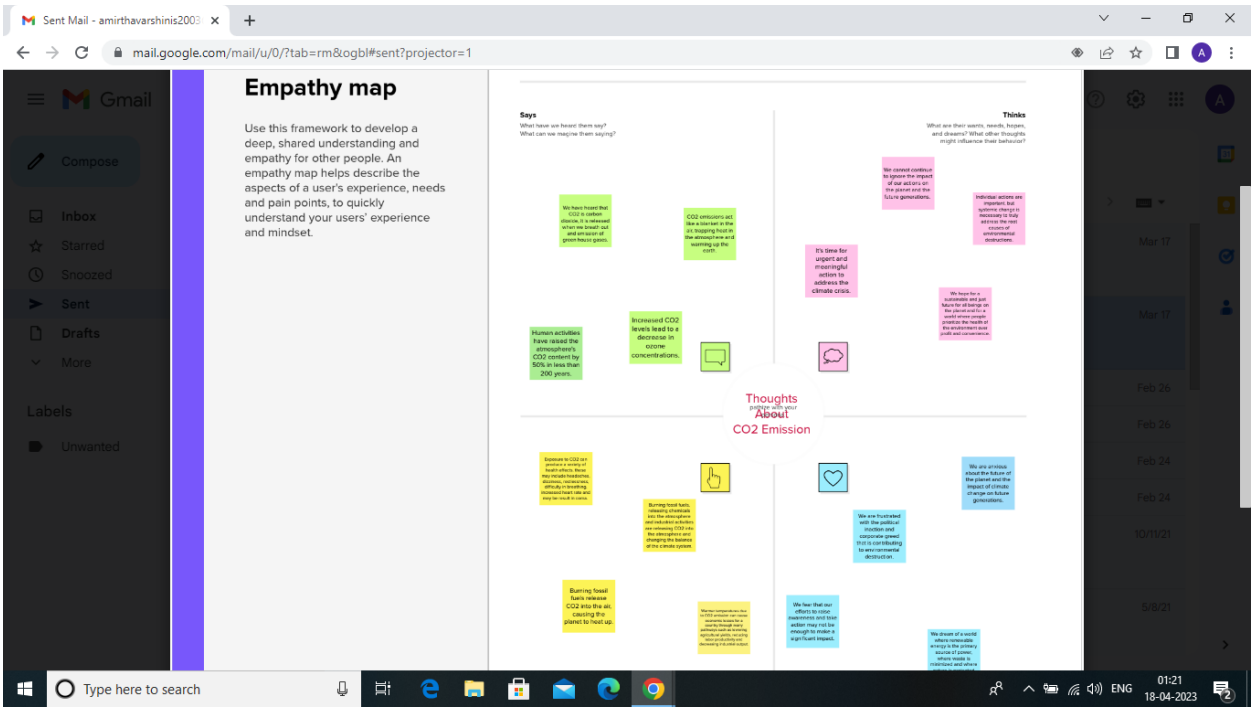
Carbon is in carbon dioxide, which is a greenhouse gas that traps heat close to Earth.

It helps Earth hold some of the heat it receives from the Sun so it doesn't all escape back into space.

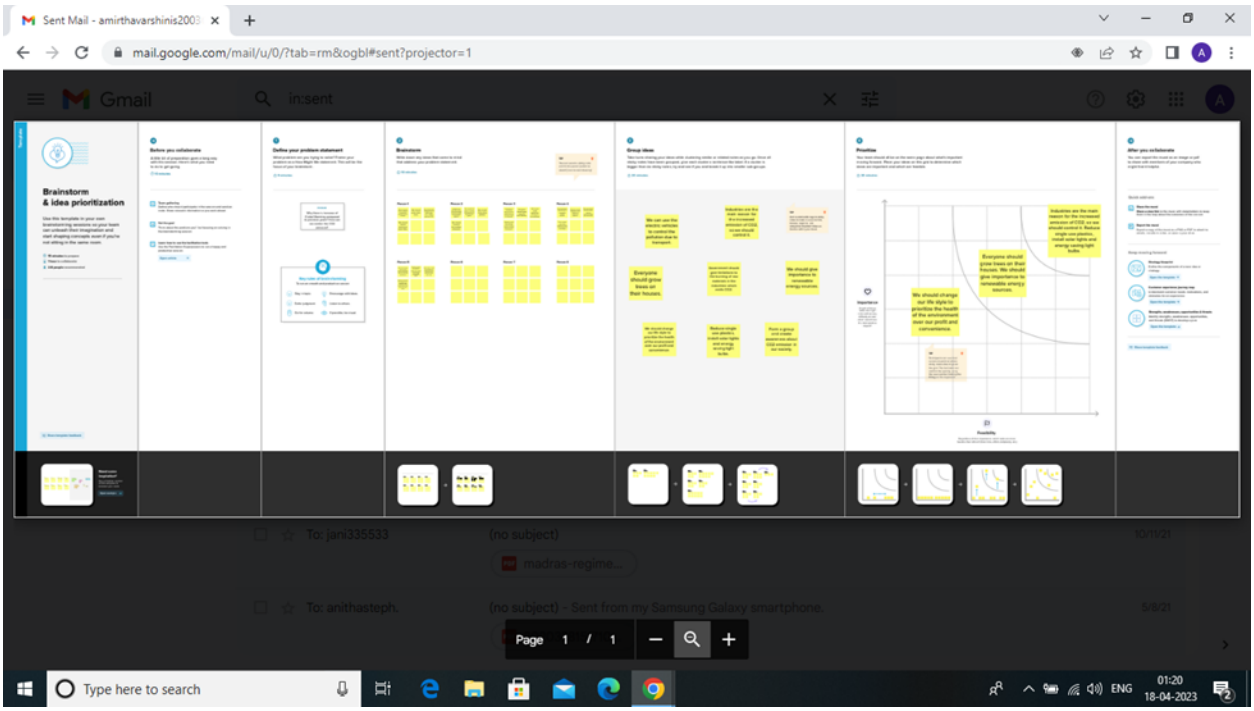
But CO2 is only good up to a point – beyond that point, Earth's temperature warms up too much.

Problem Definition & Design Thinking

2.1 EMPATHY MAP



2.2 IDEATION & BRAINSTORMING MAP



RESULT

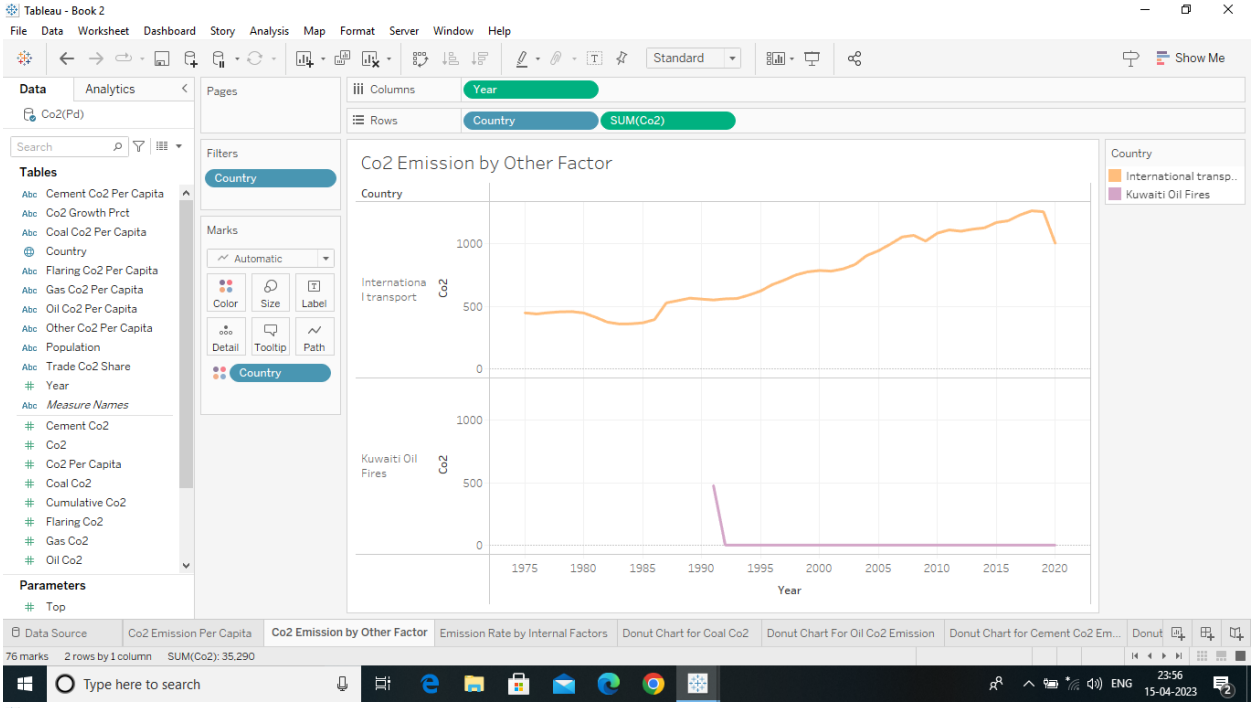


Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Columns Year
Rows Country SUM(Co2)
Co2 Emission by Other Factor
Country
International transp..
Kuwaiti Oil Fires
Year
Data Source
Co2 Emission Per Capita
Co2 Emission by Other Factor
Emission Rate by Internal Factors
Donut Chart for Coal Co2
Donut Chart For Oil Co2 Emission
Donut Chart for Cement Co2 Em...
76 marks
2 rows by 1 column
SUM(Co2): 35,290

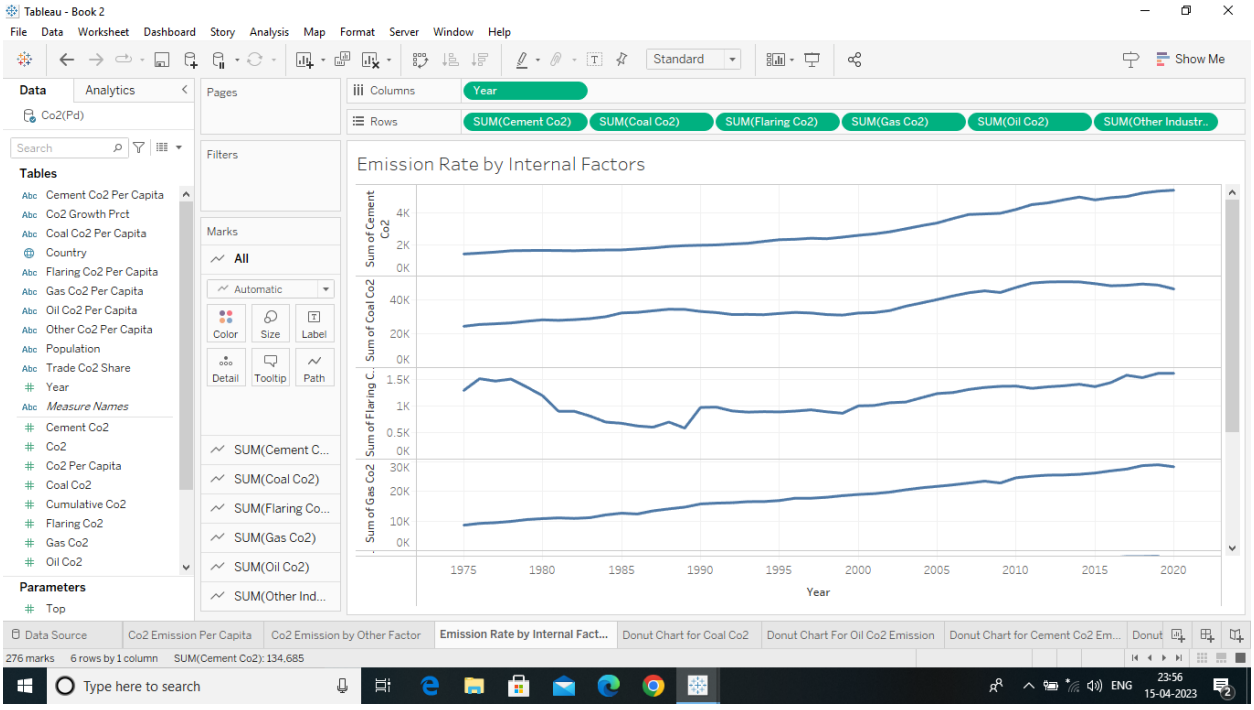


Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Columns Year
Rows SUM(Cement Co2) SUM(Coal Co2) SUM(Flaring Co2) SUM(Gas Co2) SUM(Oil Co2) SUM(Other Industr..
Emission Rate by Internal Factors
Sum of Cement Co2
Sum of Coal Co2
Sum of Flaring C..
Sum of Gas Co2
Year
Data Source
Co2 Emission Per Capita
Co2 Emission by Other Factor
Emission Rate by Internal Fact...
Donut Chart for Coal Co2
Donut Chart For Oil Co2 Emission
Donut Chart for Cement Co2 Em...
276 marks
6 rows by 1 column
SUM(Cement Co2): 134,685

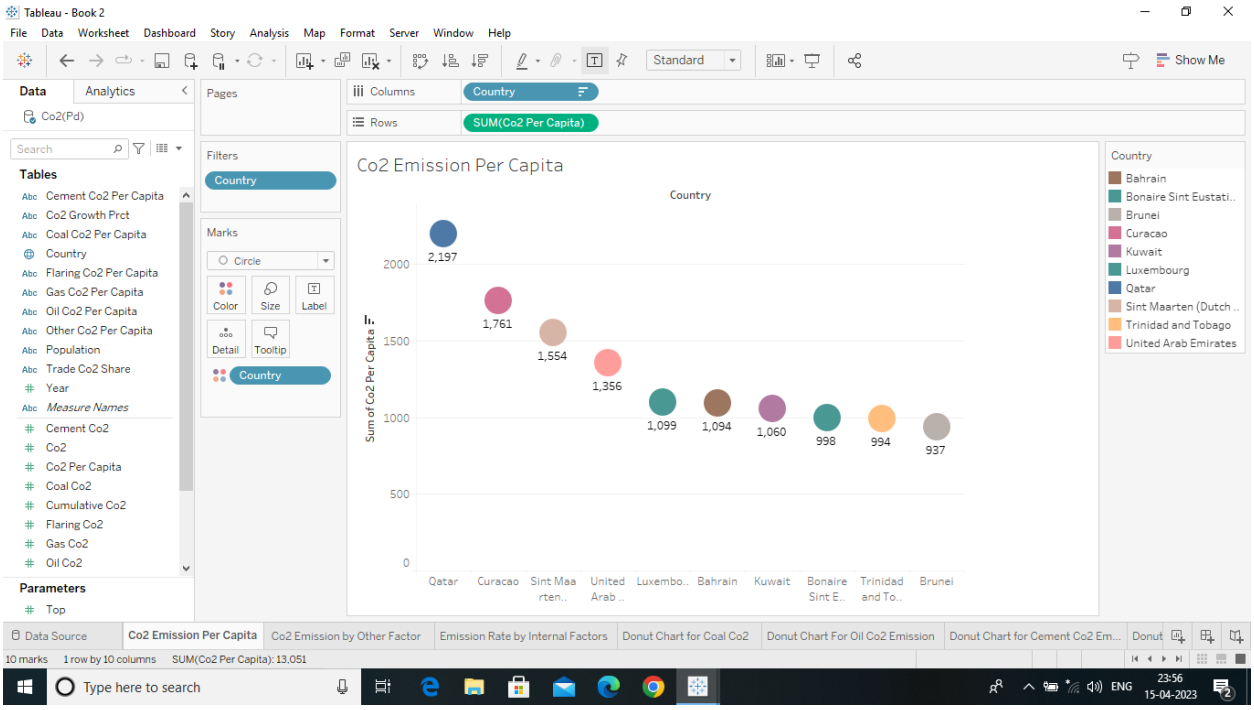


Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Data Analytics
Co2(Pd)
Tables
Cement Co2 Per Capita
Co2 Growth Prct
Coal Co2 Per Capita
Country
Flaring Co2 Per Capita
Gas Co2 Per Capita
Oil Co2 Per Capita
Other Co2 Per Capita
Population
Trade Co2 Share
Year
Measure Names
Cement Co2
Co2
Co2 Per Capita
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Filters
Country
Marks
Circle
Color
Size
Label
Detail
Tooltip
Columns
Country
Rows
SUM(Co2 Per Capita)
Co2 Emission Per Capita
Country
Sum of Co2 Per Capita
2,197
1,761
1,554
1,356
1,099
1,094
1,060
998
994
937
Qatar
Curacao
Sint Maarten..
United Arab ..
Luxembo..
Bahrain
Kuwait
Bonaire Sint E..
Trinidad and To..
Brunei
Bahrain
Bonaire Sint Eustati..
Brunei
Curacao
Kuwait
Luxembourg
Qatar
Sint Maarten (Dutch ..
Trinidad and Tobago
United Arab Emirates
Data Source
Co2 Emission Per Capita
Co2 Emission by Other Factor
Emission Rate by Internal Factors
Donut Chart for Coal Co2
Donut Chart For Oil Co2 Emission
Donut Chart for Cement Co2 Em...
10 marks
1 row by 10 columns
SUM(Co2 Per Capita): 13,051
Type here to search
ENG
23:56
15-04-2023

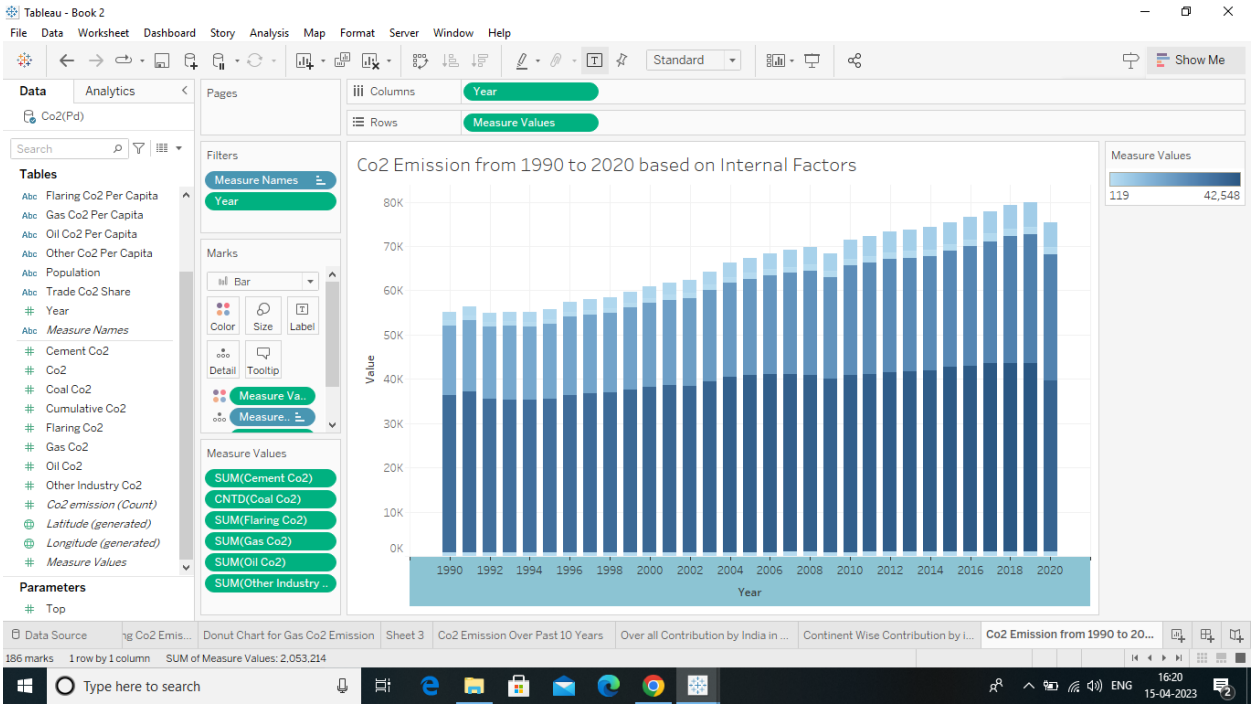


Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Data Analytics
Co2(Pd)
Tables
Flaring Co2 Per Capita
Gas Co2 Per Capita
Oil Co2 Per Capita
Other Co2 Per Capita
Population
Trade Co2 Share
Year
Measure Names
Cement Co2
Co2
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Other Industry Co2
Co2 emission (Count)
Latitude (generated)
Longitude (generated)
Measure Values
Parameters
Top
Pages
Filters
Measure Names
Year
Marks
Bar
Color
Size
Label
Detail
Tooltip
Measure Va..
Measure..
Measure Values
SUM(Cement Co2)
CNTD(Coal Co2)
SUM(Flaring Co2)
SUM(Gas Co2)
SUM(Oil Co2)
SUM(Other Industry ..
Columns
Year
Rows
Measure Values
Co2 Emission from 1990 to 2020 based on Internal Factors
Value
Year
Measure Values
119
42,548
Data Source
Donut Chart for Gas Co2 Emission
Sheet 3
Co2 Emission Over Past 10 Years
Over all Contribution by India in ...
Continent Wise Contribution by i...
Co2 Emission from 1990 to 20...
186 marks
1 row by 1 column
SUM of Measure Values: 2,053,214
Type here to search
ENG
16:20
15-04-2023

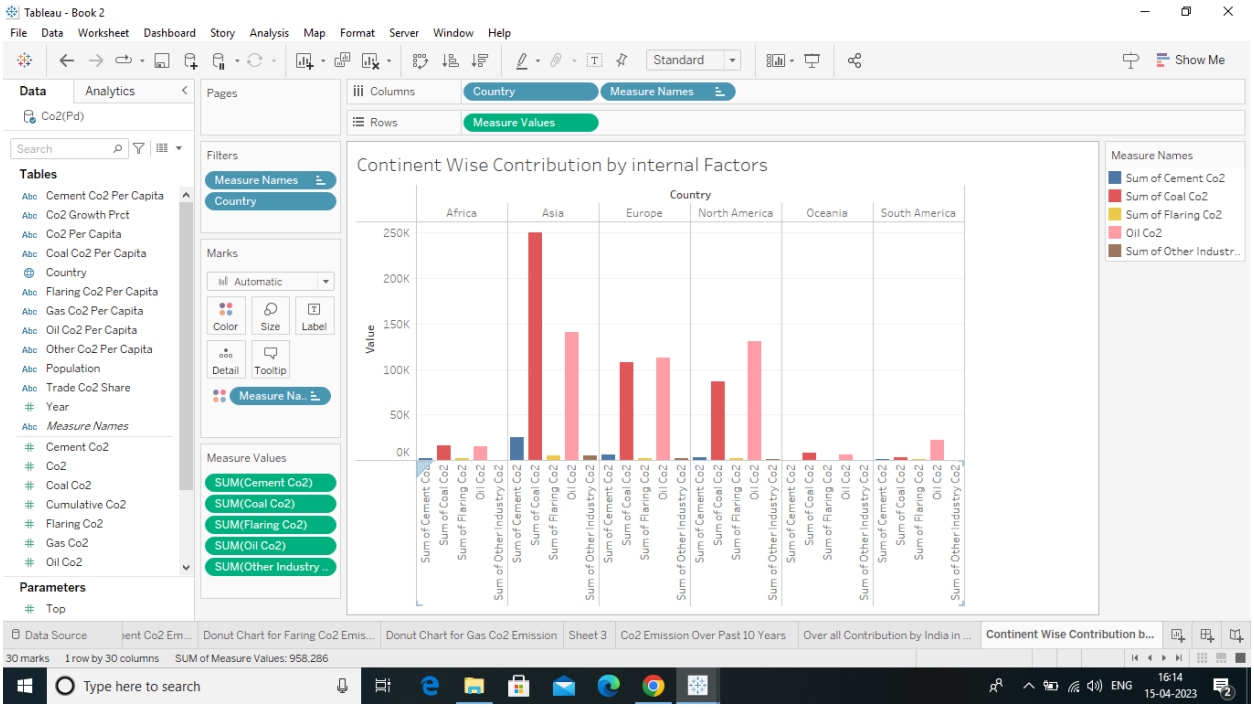


Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Data Analytics
Co2(Pd)
Tables
Cement Co2 Per Capita
Co2 Growth Prct
Co2 Per Capita
Coal Co2 Per Capita
Country
Flaring Co2 Per Capita
Gas Co2 Per Capita
Oil Co2 Per Capita
Other Co2 Per Capita
Population
Trade Co2 Share
Year
Measure Names
Cement Co2
Co2
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Filters
Measure Names
Country
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Measure Values
SUM(Cement Co2)
SUM(Coal Co2)
SUM(Flaring Co2)
SUM(Oil Co2)
SUM(Other Industry ..
Columns
Country
Measure Names
Rows
Measure Values
Continent Wise Contribution by internal Factors
Country
Africa
Asia
Europe
North America
Oceania
South America
Value
250K
200K
150K
100K
50K
0K
Measure Names
Sum of Cement Co2
Sum of Coal Co2
Sum of Flaring Co2
Oil Co2
Sum of Other Industr..
Data Source
Donut Chart for Faring Co2 Emis...
Donut Chart for Gas Co2 Emission
Sheet 3
Co2 Emission Over Past 10 Years
Over all Contribution by India in ...
Continent Wise Contribution b...
30 marks
1 row by 30 columns
SUM of Measure Values: 958,286
Type here to search
ENG
16:14
15-04-2023

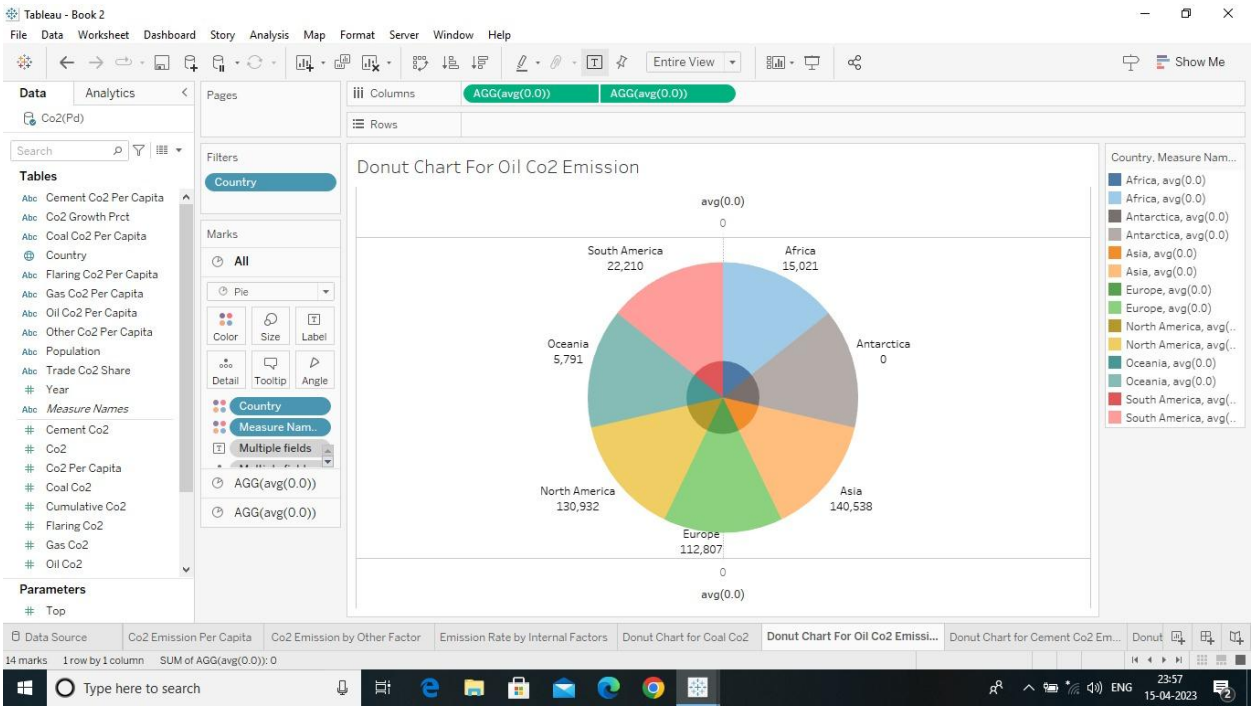


Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Show Me
Data Analytics
Co2(Pd)
Tables
Cement Co2 Per Capita
Co2 Growth Prct
Coal Co2 Per Capita
Country
Flaring Co2 Per Capita
Gas Co2 Per Capita
Oil Co2 Per Capita
Other Co2 Per Capita
Population
Trade Co2 Share
Year
Measure Names
Cement Co2
Co2
Co2 Per Capita
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Filters
Country
Marks
All
Pie
Color
Size
Label
Detail
Tooltip
Angle
Country
Measure Nam..
Multiple fields
AGG(avg(0.0))
AGG(avg(0.0))
Columns
AGG(avg(0.0))
AGG(avg(0.0))
Rows
Donut Chart For Oil Co2 Emission
avg(0.0)
0
South America
22,210
Africa
15,021
Antarctica
0
Oceania
5,791
North America
130,932
Asia
140,538
Europe
112,807
0
avg(0.0)
Country, Measure Nam...
Africa, avg(0.0)
Africa, avg(0.0)
Antarctica, avg(0.0)
Antarctica, avg(0.0)
Asia, avg(0.0)
Asia, avg(0.0)
Europe, avg(0.0)
Europe, avg(0.0)
North America, avg(..
North America, avg(..
Oceania, avg(0.0)
Oceania, avg(0.0)
South America, avg(..
South America, avg(..
Data Source
Co2 Emission Per Capita
Co2 Emission by Other Factor
Emission Rate by Internal Factors
Donut Chart for Coal Co2
Donut Chart For Oil Co2 Emissi...
Donut Chart for Cement Co2 Em...
Donut
14 marks
1 row by 1 column
SUM of AGG(avg(0.0)): 0
Type here to search
ENG
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15-04-2023

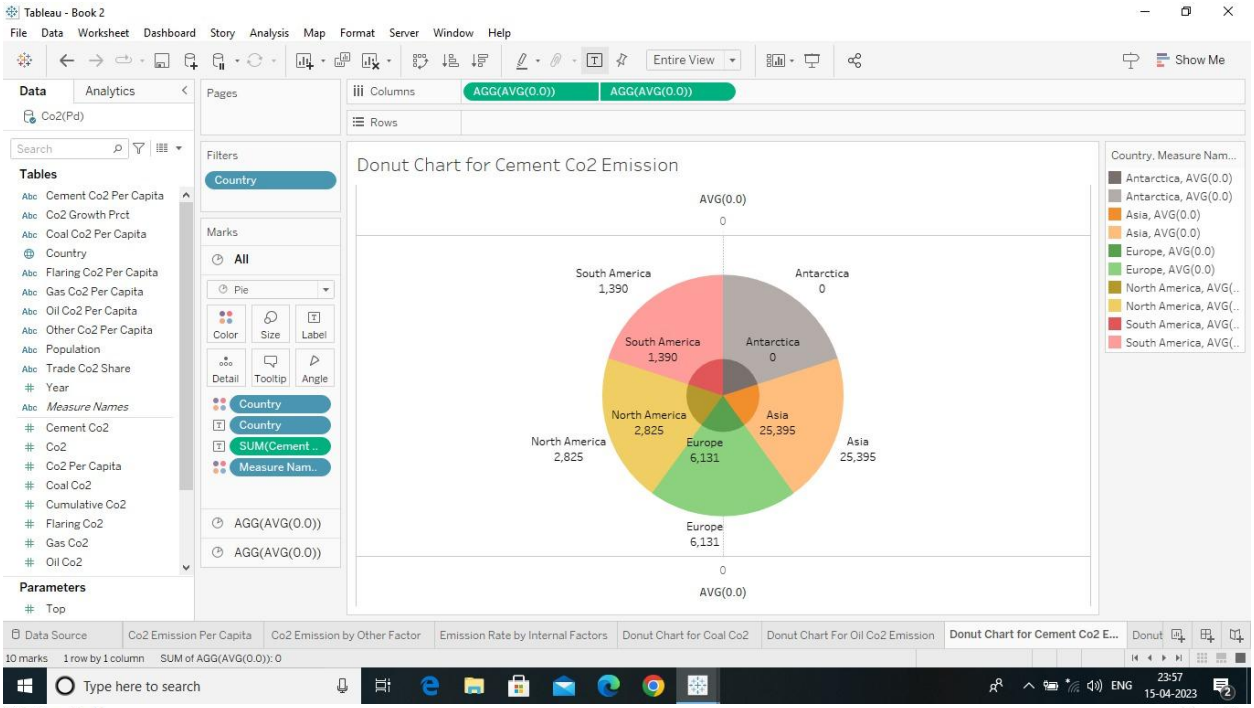
Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Show Me
Data
Analytics
Co2(Pd)
Tables
Cement Co2 Per Capita
Co2 Growth Prct
Coal Co2 Per Capita
Country
Flaring Co2 Per Capita
Gas Co2 Per Capita
Oil Co2 Per Capita
Other Co2 Per Capita
Population
Trade Co2 Share
Year
Measure Names
Cement Co2
Co2
Co2 Per Capita
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Filters
Country
Marks
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Pie
Color
Size
Label
Detail
Tooltip
Angle
Country
Country
SUM(Cement ..
Measure Nam..
AGG(AVG(0.0))
AGG(AVG(0.0))
Columns
AGG(AVG(0.0))
AGG(AVG(0.0))
Rows
Donut Chart for Cement Co2 Emission
AVG(0.0)
0
South America
1,390
Antarctica
0
North America
2,825
Asia
25,395
Europe
6,131
0
AVG(0.0)
Country, Measure Nam...
Antarctica, AVG(0.0)
Antarctica, AVG(0.0)
Asia, AVG(0.0)
Asia, AVG(0.0)
Europe, AVG(0.0)
Europe, AVG(0.0)
North America, AVG(..
North America, AVG(..
South America, AVG(..
South America, AVG(..
Data Source
Co2 Emission Per Capita
Co2 Emission by Other Factor
Emission Rate by Internal Factors
Donut Chart for Coal Co2
Donut Chart For Oil Co2 Emission
Donut Chart for Cement Co2 E...
Donut
10 marks
1 row by 1 column
SUM of AGG(AVG(0.0)): 0
Type here to search
ENG
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15-04-2023

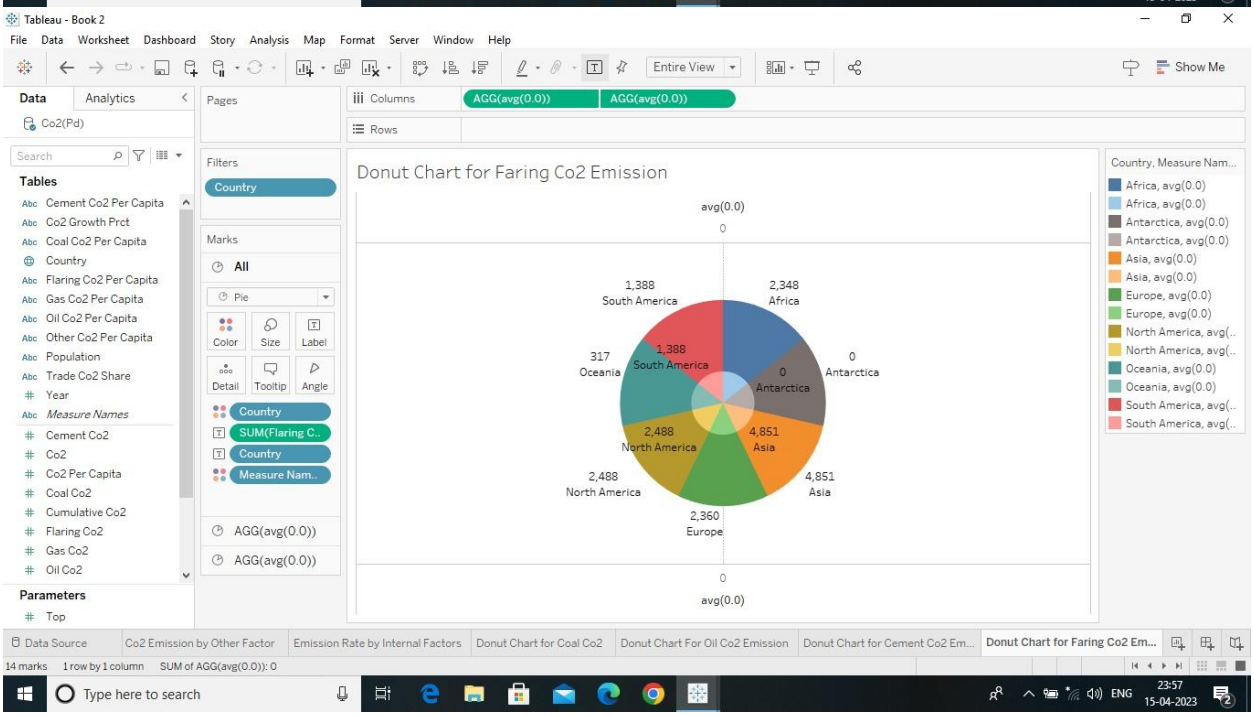
Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Show Me
Data
Analytics
Co2(Pd)
Tables
Cement Co2 Per Capita
Co2 Growth Prct
Coal Co2 Per Capita
Country
Flaring Co2 Per Capita
Gas Co2 Per Capita
Oil Co2 Per Capita
Other Co2 Per Capita
Population
Trade Co2 Share
Year
Measure Names
Cement Co2
Co2
Co2 Per Capita
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Filters
Country
Marks
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Pie
Color
Size
Label
Detail
Tooltip
Angle
Country
SUM(Flaring C..
Country
Measure Nam..
AGG(avg(0.0))
AGG(avg(0.0))
Columns
AGG(avg(0.0))
AGG(avg(0.0))
Rows
Donut Chart for Faring Co2 Emission
avg(0.0)
0
1,388
South America
2,348
Africa
317
Oceania
1,388
South America
0
Antarctica
0
Antarctica
2,488
North America
4,851
Asia
2,488
North America
4,851
Asia
2,360
Europe
0
avg(0.0)
Country, Measure Nam...
Africa, avg(0.0)
Africa, avg(0.0)
Antarctica, avg(0.0)
Antarctica, avg(0.0)
Asia, avg(0.0)
Asia, avg(0.0)
Europe, avg(0.0)
Europe, avg(0.0)
North America, avg(..
North America, avg(..
Oceania, avg(0.0)
Oceania, avg(0.0)
South America, avg(..
South America, avg(..
Data Source
Co2 Emission by Other Factor
Emission Rate by Internal Factors
Donut Chart for Coal Co2
Donut Chart For Oil Co2 Emission
Donut Chart for Cement Co2 Em...
Donut Chart for Faring Co2 Em...
14 marks
1 row by 1 column
SUM of AGG(avg(0.0)): 0
Type here to search
ENG
23:57
15-04-2023

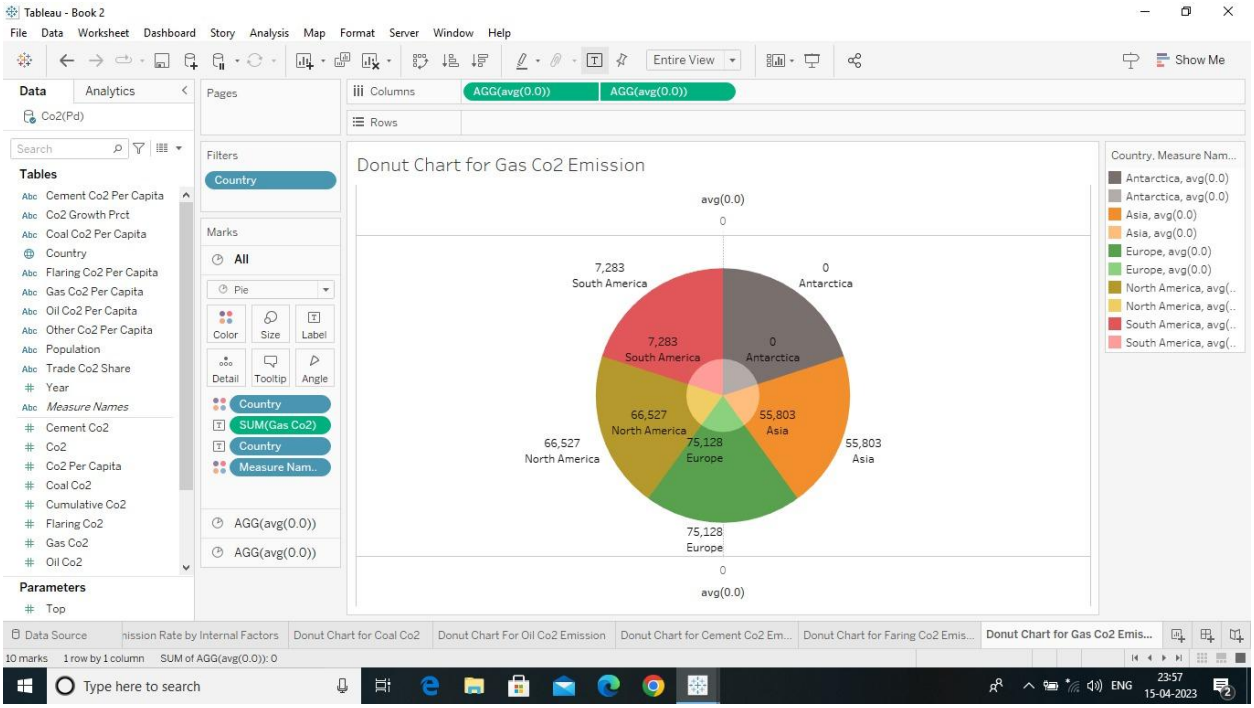
Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Show Me
Data
Analytics
Co2(Pd)
Search
Tables
Cement Co2 Per Capita
Co2 Growth Prct
Coal Co2 Per Capita
Country
Flaring Co2 Per Capita
Gas Co2 Per Capita
Oil Co2 Per Capita
Other Co2 Per Capita
Population
Trade Co2 Share
Year
Measure Names
Cement Co2
Co2
Co2 Per Capita
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Columns
AGG(avg(0.0))
AGG(avg(0.0))
Rows
Filters
Country
Marks
All
Pie
Color
Size
Label
Detail
Tooltip
Angle
Country
SUM(Gas Co2)
Country
Measure Nam..
AGG(avg(0.0))
AGG(avg(0.0))
Donut Chart for Gas Co2 Emission
avg(0.0)
0
7,283
South America
0
Antarctica
7,283
South America
0
Antarctica
66,527
North America
55,803
Asia
66,527
North America
75,128
Europe
55,803
Asia
75,128
Europe
0
avg(0.0)
Country, Measure Nam...
Antarctica, avg(0.0)
Antarctica, avg(0.0)
Asia, avg(0.0)
Asia, avg(0.0)
Europe, avg(0.0)
Europe, avg(0.0)
North America, avg(..
North America, avg(..
South America, avg(..
South America, avg(..
Data Source
Donut Chart for Coal Co2
Donut Chart For Oil Co2 Emission
Donut Chart for Cement Co2 Em...
Donut Chart for Faring Co2 Emis...
Donut Chart for Gas Co2 Emis...
10 marks
1 row by 1 column
SUM of AGG(avg(0.0)): 0
Type here to search
ENG
23:57
15-04-2023

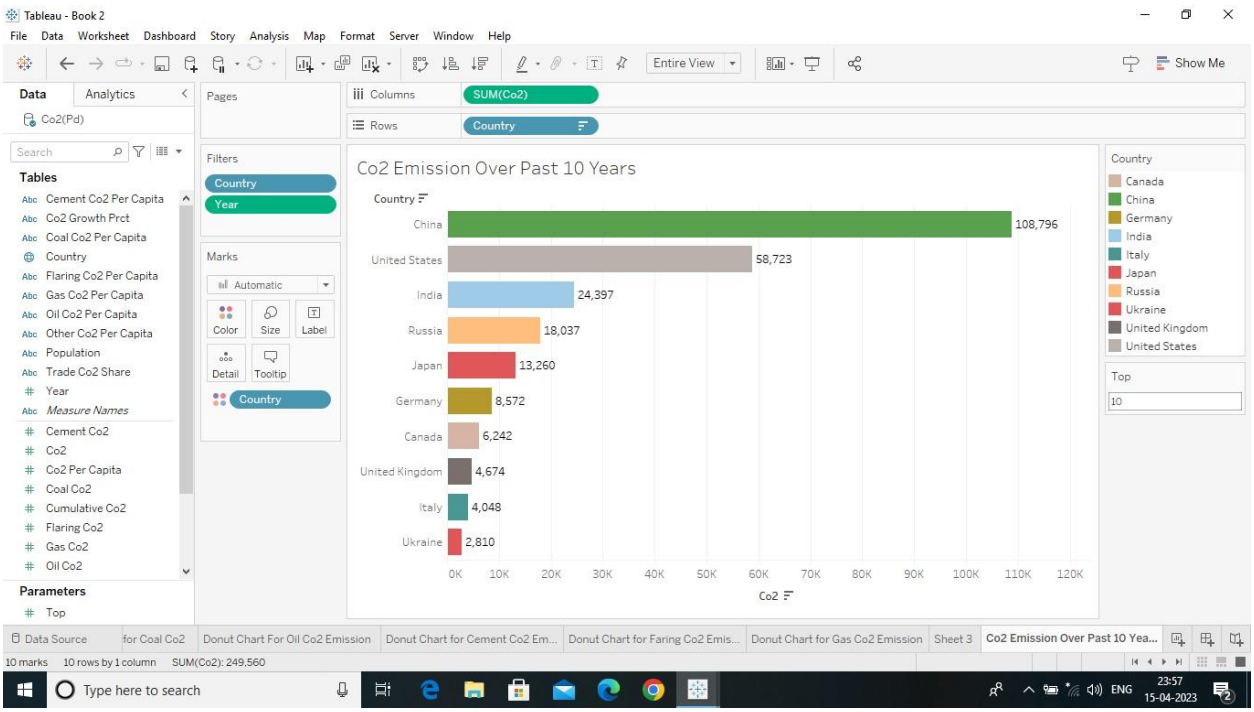
Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Show Me
Data
Analytics
Co2(Pd)
Search
Tables
Cement Co2 Per Capita
Co2 Growth Prct
Coal Co2 Per Capita
Country
Flaring Co2 Per Capita
Gas Co2 Per Capita
Oil Co2 Per Capita
Other Co2 Per Capita
Population
Trade Co2 Share
Year
Measure Names
Cement Co2
Co2
Co2 Per Capita
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Columns
SUM(Co2)
Rows
Country
Filters
Country
Year
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Country
Co2 Emission Over Past 10 Years
Country
China
United States
India
Russia
Japan
Germany
Canada
United Kingdom
Italy
Ukraine
108,796
58,723
24,397
18,037
13,260
8,572
6,242
4,674
4,048
2,810
0K
10K
20K
30K
40K
50K
60K
70K
80K
90K
100K
110K
120K
Co2
Country
Canada
China
Germany
India
Italy
Japan
Russia
Ukraine
United Kingdom
United States
Top
10
Data Source
for Coal Co2
Donut Chart For Oil Co2 Emission
Donut Chart for Cement Co2 Em...
Donut Chart for Faring Co2 Emis...
Donut Chart for Gas Co2 Emission
Sheet 3
Co2 Emission Over Past 10 Yea...
10 marks
10 rows by 1 column
SUM(Co2): 249,560
Type here to search
ENG
23:57
15-04-2023

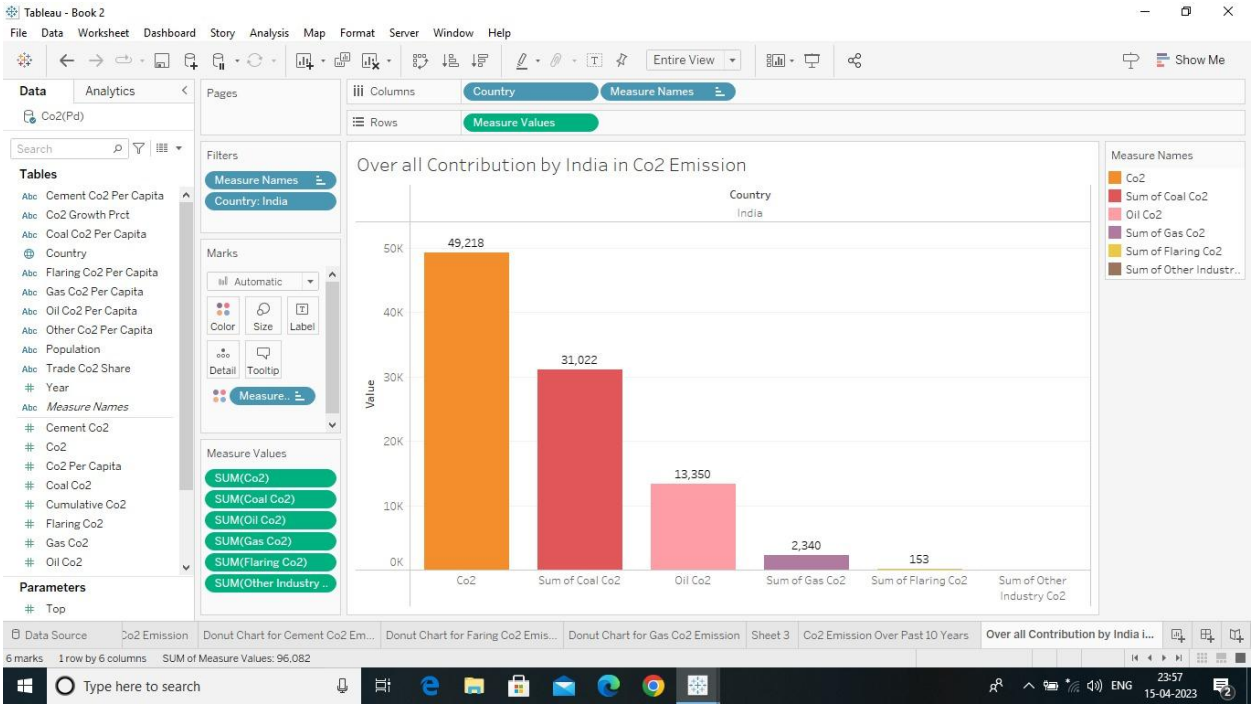
Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Show Me
Data Analytics
Co2(Pd)
Search
Tables
Abc Cement Co2 Per Capita
Abc Co2 Growth Prct
Abc Coal Co2 Per Capita
Country
Abc Flaring Co2 Per Capita
Abc Gas Co2 Per Capita
Abc Oil Co2 Per Capita
Abc Other Co2 Per Capita
Abc Population
Abc Trade Co2 Share
Year
Abc Measure Names
Cement Co2
Co2
Co2 Per Capita
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Columns
Country
Measure Names
Rows
Measure Values
Filters
Measure Names
Country: India
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Measure..
Measure Values
SUM(Co2)
SUM(Coal Co2)
SUM(Oil Co2)
SUM(Gas Co2)
SUM(Flaring Co2)
SUM(Other Industry ..
Over all Contribution by India in Co2 Emission
Country
India
Value
50K
40K
30K
20K
10K
0K
49,218
31,022
13,350
2,340
153
Co2
Sum of Coal Co2
Oil Co2
Sum of Gas Co2
Sum of Flaring Co2
Sum of Other Industry Co2
Measure Names
Co2
Sum of Coal Co2
Oil Co2
Sum of Gas Co2
Sum of Flaring Co2
Sum of Other Industr..
Data Source
Co2 Emission
Donut Chart for Cement Co2 Em...
Donut Chart for Faring Co2 Emis...
Donut Chart for Gas Co2 Emission
Sheet 3
Co2 Emission Over Past 10 Years
Over all Contribution by India i...
6 marks
1 row by 6 columns
SUM of Measure Values: 96,082
Type here to search
ENG
23:57
15-04-2023

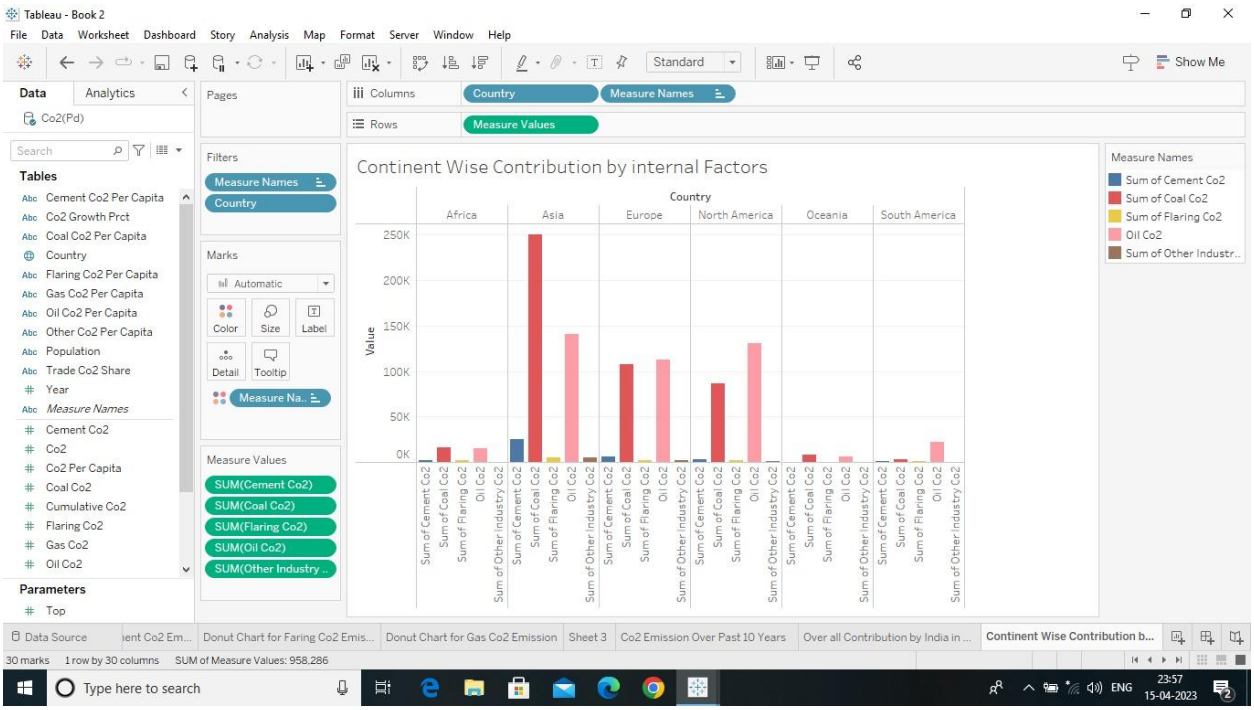
Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data Analytics
Co2(Pd)
Search
Tables
Abc Cement Co2 Per Capita
Abc Co2 Growth Prct
Abc Coal Co2 Per Capita
Country
Abc Flaring Co2 Per Capita
Abc Gas Co2 Per Capita
Abc Oil Co2 Per Capita
Abc Other Co2 Per Capita
Abc Population
Abc Trade Co2 Share
Year
Abc Measure Names
Cement Co2
Co2
Co2 Per Capita
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Columns
Country
Measure Names
Rows
Measure Values
Filters
Measure Names
Country
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Measure Na..
Measure Values
SUM(Cement Co2)
SUM(Coal Co2)
SUM(Flaring Co2)
SUM(Oil Co2)
SUM(Other Industry ..
Continent Wise Contribution by internal Factors
Country
Africa
Asia
Europe
North America
Oceania
South America
Value
250K
200K
150K
100K
50K
0K
Sum of Cement Co2
Sum of Coal Co2
Sum of Flaring Co2
Oil Co2
Sum of Other Industry Co2
Measure Names
Sum of Cement Co2
Sum of Coal Co2
Sum of Flaring Co2
Oil Co2
Sum of Other Industr..
Data Source
ent Co2 Em...
Donut Chart for Faring Co2 Emis...
Donut Chart for Gas Co2 Emission
Sheet 3
Co2 Emission Over Past 10 Years
Over all Contribution by India in ...
Continent Wise Contribution b...
30 marks
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ENG
23:57
15-04-2023

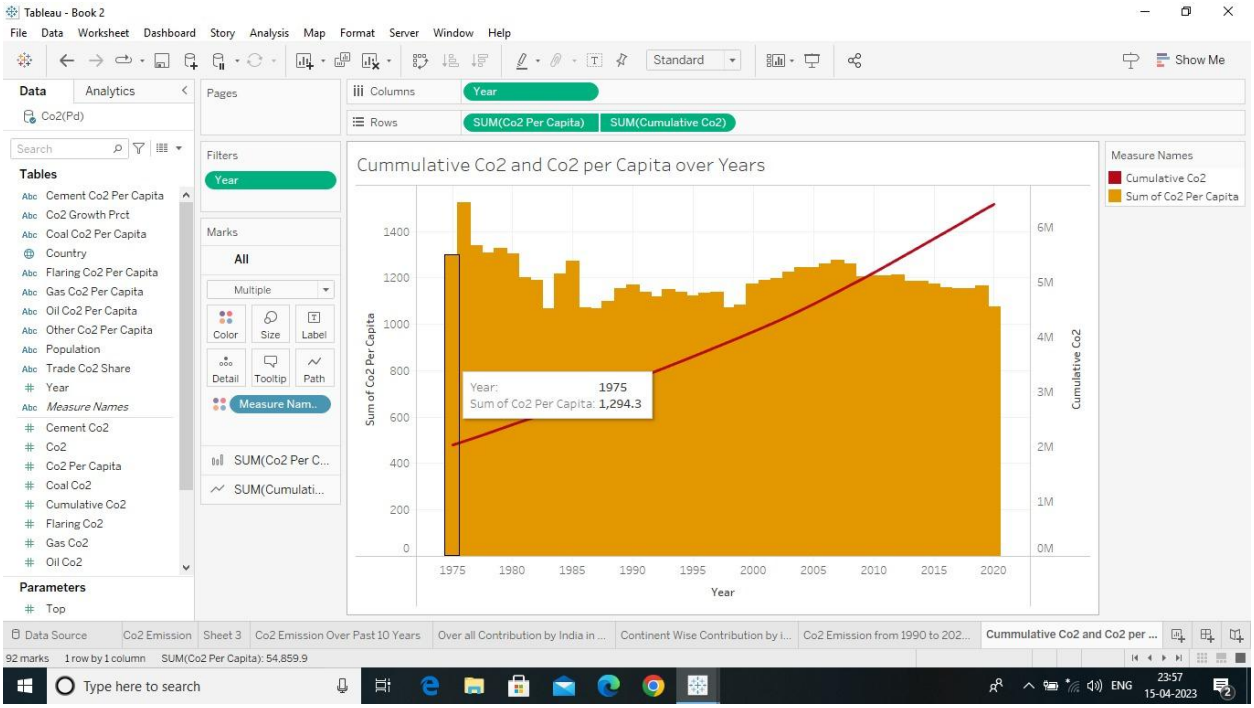
Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Data Analytics
Co2(Pd)
Tables
Cement Co2 Per Capita
Co2 Growth Prct
Coal Co2 Per Capita
Country
Flaring Co2 Per Capita
Gas Co2 Per Capita
Oil Co2 Per Capita
Other Co2 Per Capita
Population
Trade Co2 Share
Year
Measure Names
Cement Co2
Co2
Co2 Per Capita
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Columns
Year
Rows
SUM(Co2 Per Capita)
SUM(Cumulative Co2)
Filters
Year
Marks
All
Multiple
Color
Size
Label
Detail
Tooltip
Path
Measure Nam..
SUM(Co2 Per C...
SUM(Cumulati...
Cummulative Co2 and Co2 per Capita over Years
Year: 1975
Sum of Co2 Per Capita: 1,294.3
Sum of Co2 Per Capita
Cumulative Co2
Year
Measure Names
Cumulative Co2
Sum of Co2 Per Capita
Data Source
Co2 Emission
Sheet 3
Co2 Emission Over Past 10 Years
Over all Contribution by India in ...
Continent Wise Contribution by i...
Co2 Emission from 1990 to 202...
Cummulative Co2 and Co2 per ...
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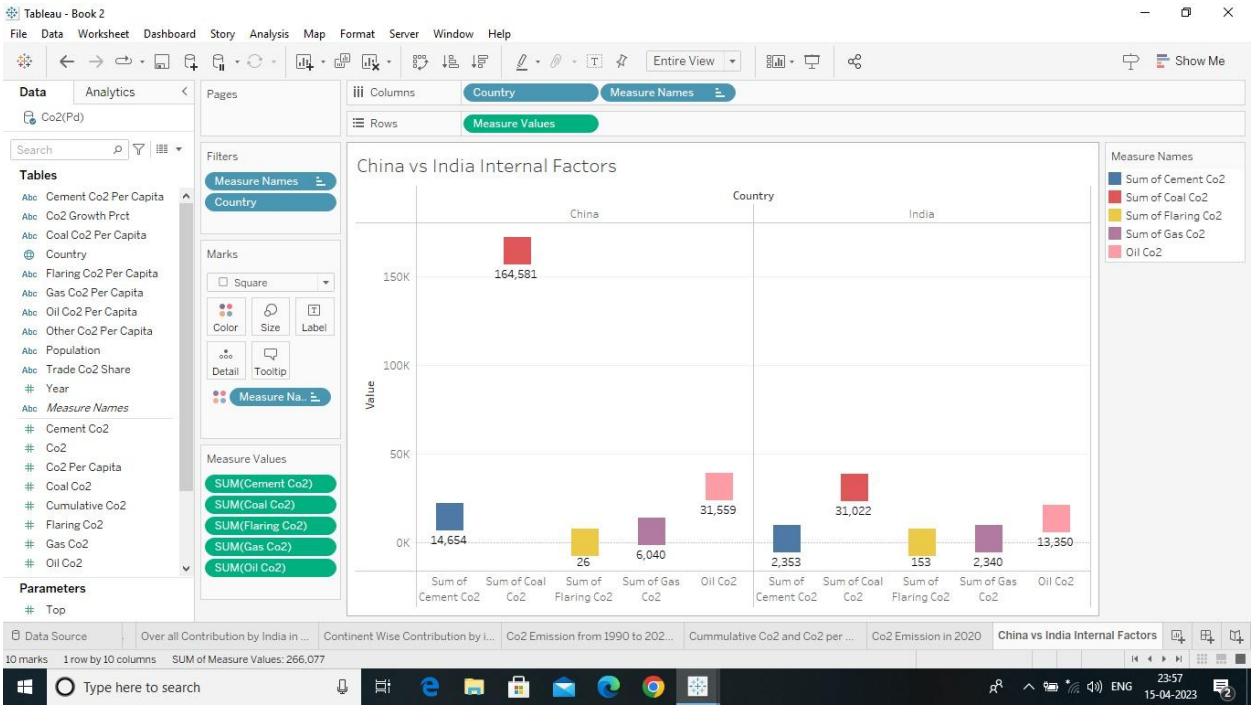
Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
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Co2(Pd)
Tables
Cement Co2 Per Capita
Co2 Growth Prct
Coal Co2 Per Capita
Country
Flaring Co2 Per Capita
Gas Co2 Per Capita
Oil Co2 Per Capita
Other Co2 Per Capita
Population
Trade Co2 Share
Year
Measure Names
Cement Co2
Co2
Co2 Per Capita
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Columns
Country
Measure Names
Rows
Measure Values
Filters
Measure Names
Country
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Square
Color
Size
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Detail
Tooltip
Measure Na..
Measure Values
SUM(Cement Co2)
SUM(Coal Co2)
SUM(Flaring Co2)
SUM(Gas Co2)
SUM(Oil Co2)
China vs India Internal Factors
Country
China
India
Value
164,581
14,654
26
6,040
31,559
2,353
31,022
153
2,340
13,350
Sum of Cement Co2
Sum of Coal Co2
Sum of Flaring Co2
Sum of Gas Co2
Oil Co2
Measure Names
Sum of Cement Co2
Sum of Coal Co2
Sum of Flaring Co2
Sum of Gas Co2
Oil Co2
Data Source
Over all Contribution by India in ...
Continent Wise Contribution by i...
Co2 Emission from 1990 to 202...
Cumulative Co2 and Co2 per ...
Co2 Emission in 2020
China vs India Internal Factors
10 marks
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15-04-2023

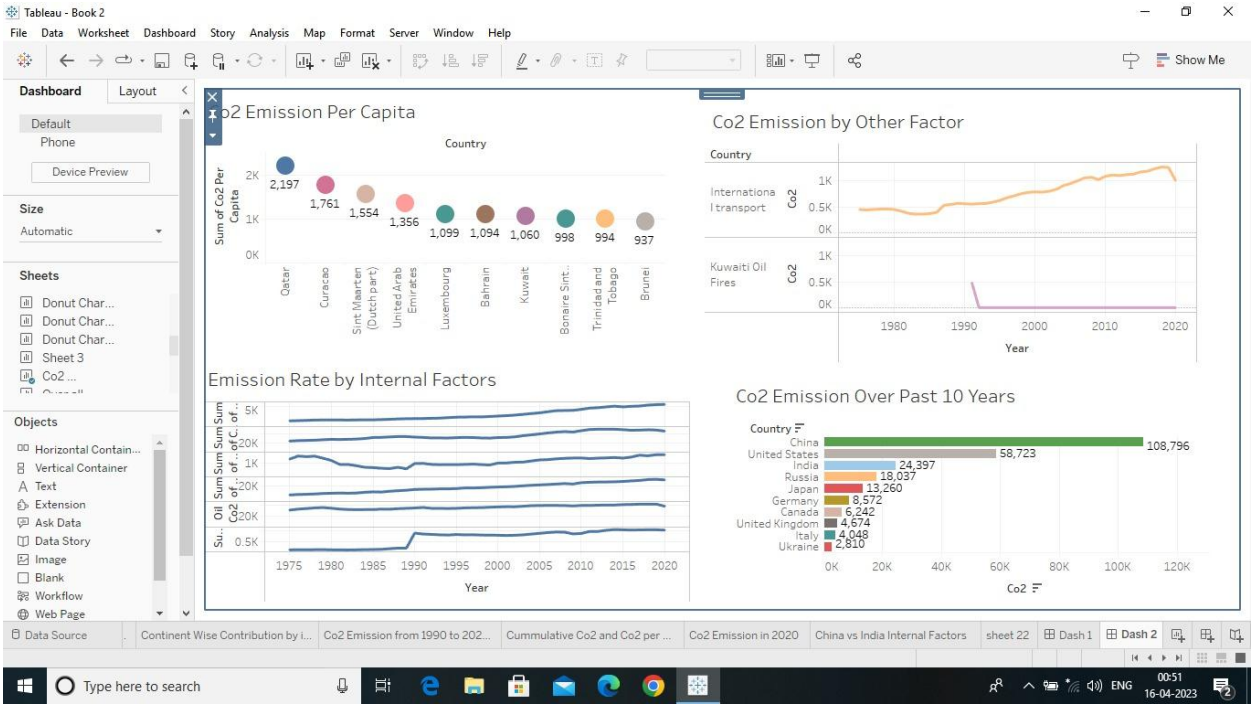
Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Show Me
Dashboard
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Device Preview
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Donut Char...
Donut Char...
Donut Char...
Sheet 3
Co2 ...
Objects
Horizontal Contain...
Vertical Container
Text
Extension
Ask Data
Data Story
Image
Blank
Workflow
Web Page
Co2 Emission Per Capita
Country
Sum of Co2 Per Capita
2,197
1,761
1,554
1,356
1,099
1,094
1,060
998
994
937
Qatar
Curacao
Sint Maarten (Dutch part)
United Arab Emirates
Luxembourg
Bahrain
Kuwait
Bonaire Sint...
Trinidad and Tobago
Brunei
Co2 Emission by Other Factor
Country
International transport
Kuwaiti Oil Fires
Co2
Year
Emission Rate by Internal Factors
Co2 Emission Over Past 10 Years
China 108,796
United States 58,723
India 24,397
Russia 18,037
Japan 13,260
Germany 8,572
Canada 6,242
United Kingdom 4,674
Italy 4,048
Ukraine 2,810
Data Source
Continent Wise Contribution by i...
Co2 Emission from 1990 to 202...
Cummulative Co2 and Co2 per ...
Co2 Emission in 2020
China vs India Internal Factors
sheet 22
Dash 1
Dash 2
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16-04-2023

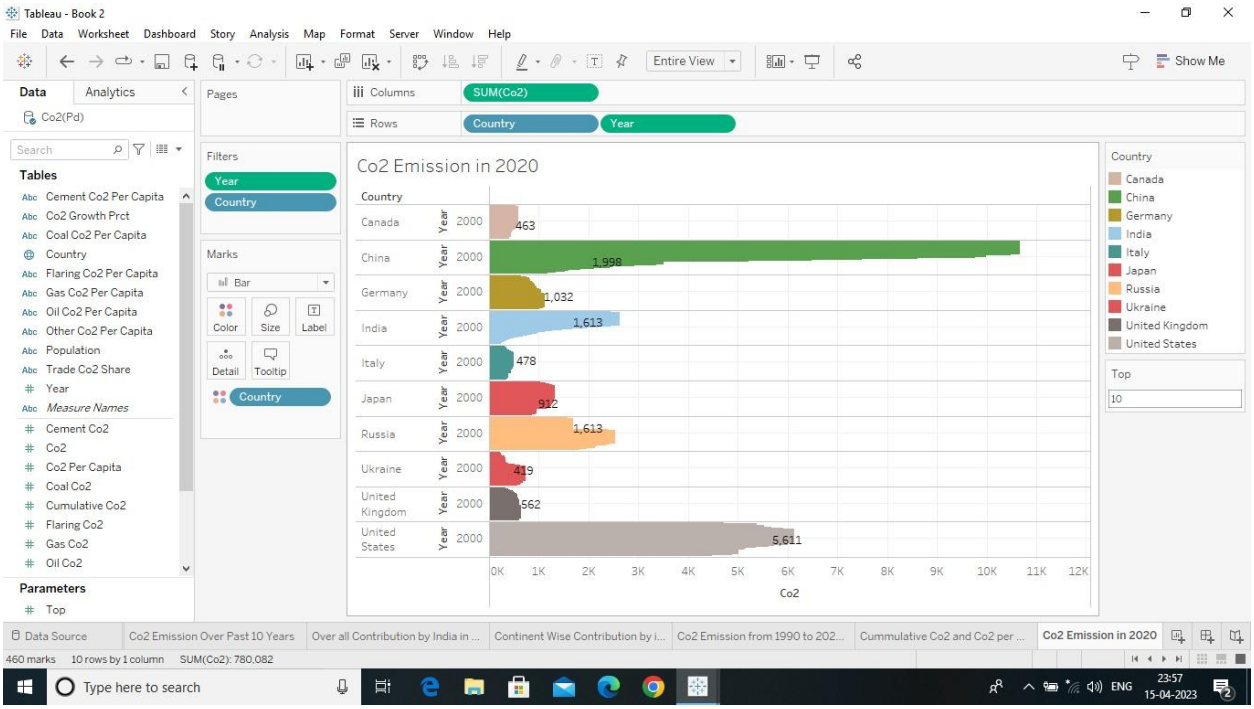
Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
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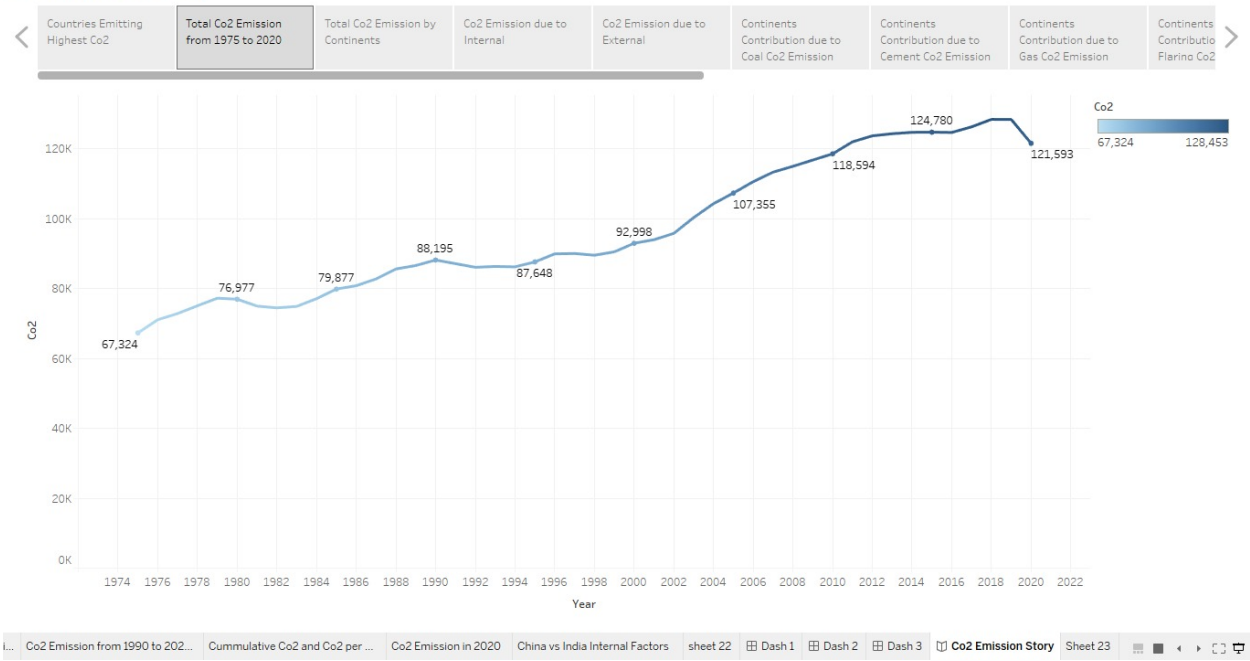
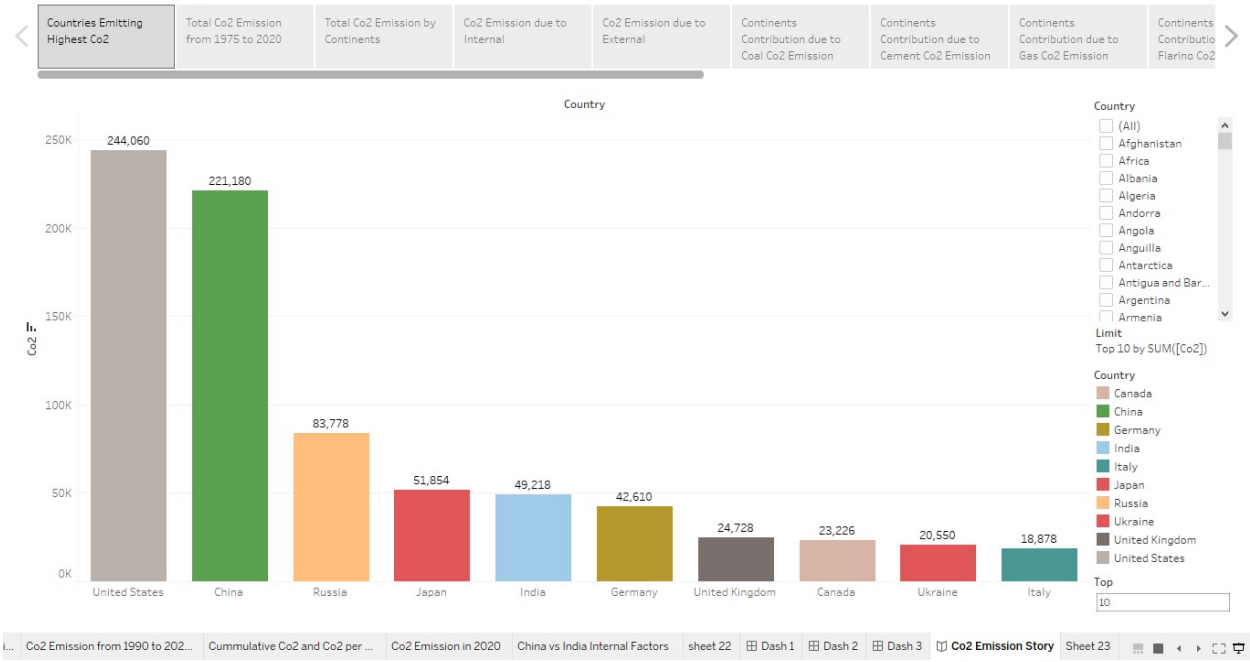
Data
Analytics
Co2(Pd)
Search
Tables
Cement Co2 Per Capita
Co2 Growth Prct
Coal Co2 Per Capita
Country
Flaring Co2 Per Capita
Gas Co2 Per Capita
Oil Co2 Per Capita
Other Co2 Per Capita
Population
Trade Co2 Share
Year
Measure Names
Cement Co2
Co2
Co2 Per Capita
Coal Co2
Cumulative Co2
Flaring Co2
Gas Co2
Oil Co2
Parameters
Top
Pages
Filters
Year
Country
Marks
Bar
Color
Size
Label
Detail
Tooltip
Country
Columns
SUM(Co2)
Rows
Country
Year
Co2 Emission in 2020
Country
Canada 2000 463
China 2000 1,998
Germany 2000 1,032
India 2000 1,613
Italy 2000 478
Japan 2000 912
Russia 2000 1,613
Ukraine 2000 419
United Kingdom 2000 562
United States 2000 5,611
Co2
Country
Canada
China
Germany
India
Italy
Japan
Russia
Ukraine
United Kingdom
United States
Top
10
Data Source
Co2 Emission Over Past 10 Years
Over all Contribution by India in ...
Continent Wise Contribution by i...
Co2 Emission from 1990 to 202...
Cummulative Co2 and Co2 per ...
Co2 Emission in 2020
460 marks
10 rows by 1 column
SUM(Co2): 780,082
Type here to search
ENG
23:57
15-04-2023

Co2 Emission Story

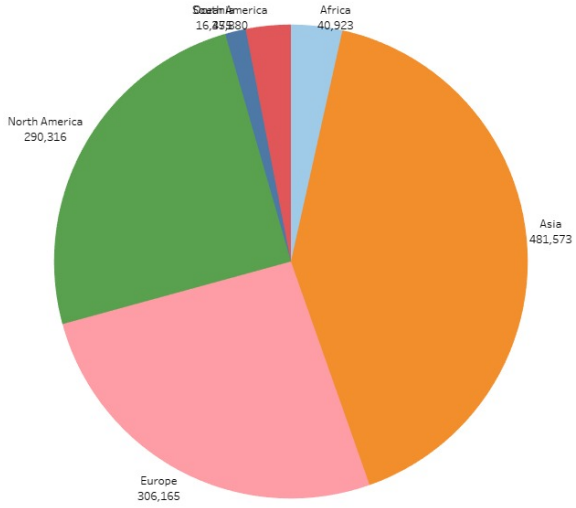


Co2 Emission Story



Co2 Emission Story

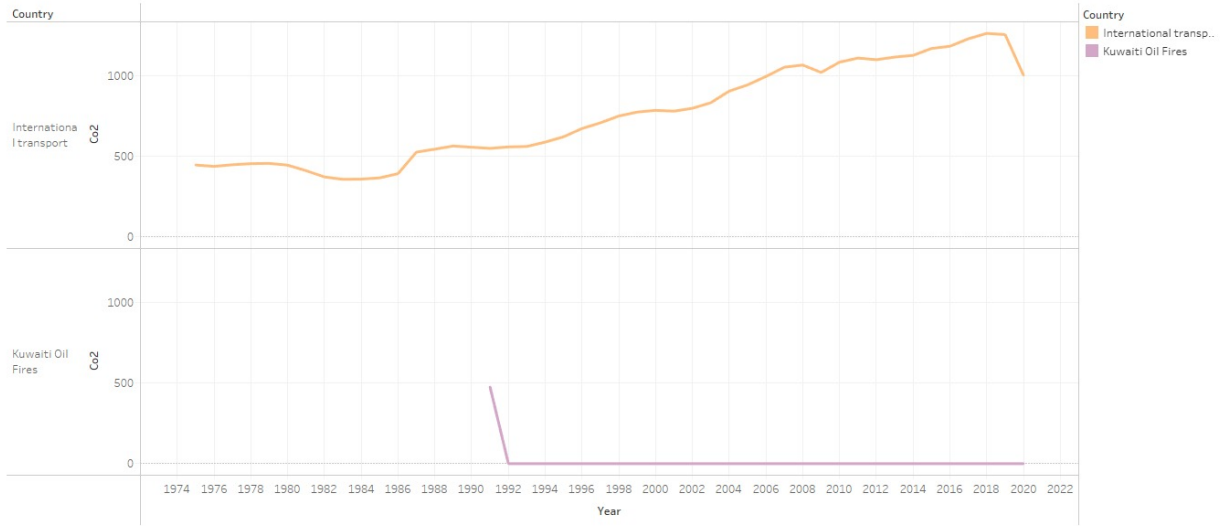
Countries Emitting Highest Co2 | Total Co2 Emission from 1975 to 2020 | **Total Co2 Emission by Continents** | Co2 Emission due to Internal | Co2 Emission due to External | Continents Contribution due to Coal Co2 Emission | Continents Contribution due to Cement Co2 Emission | Continents Contribution due to Gas Co2 Emission | Continents Contributio Flarino Co2



Co2 Emission from 1990 to 202... | Cummulative Co2 and Co2 per ... | Co2 Emission in 2020 | China vs India Internal Factors | sheet 22 | Dash 1 | Dash 2 | Dash 3 | **Co2 Emission Story** | Sheet 23

Co2 Emission Story

Countries Emitting Highest Co2 | Total Co2 Emission from 1975 to 2020 | Total Co2 Emission by Continents | Co2 Emission due to Internal | **Co2 Emission due to External** | Continents Contribution due to Coal Co2 Emission | Continents Contribution due to Cement Co2 Emission | Continents Contribution due to Gas Co2 Emission | Continents Contributio Flarino Co2



Co2 Emission from 1990 to 202... | Cummulative Co2 and Co2 per ... | Co2 Emission in 2020 | China vs India Internal Factors | sheet 22 | Dash 1 | Dash 2 | Dash 3 | **Co2 Emission Story** | Sheet 23

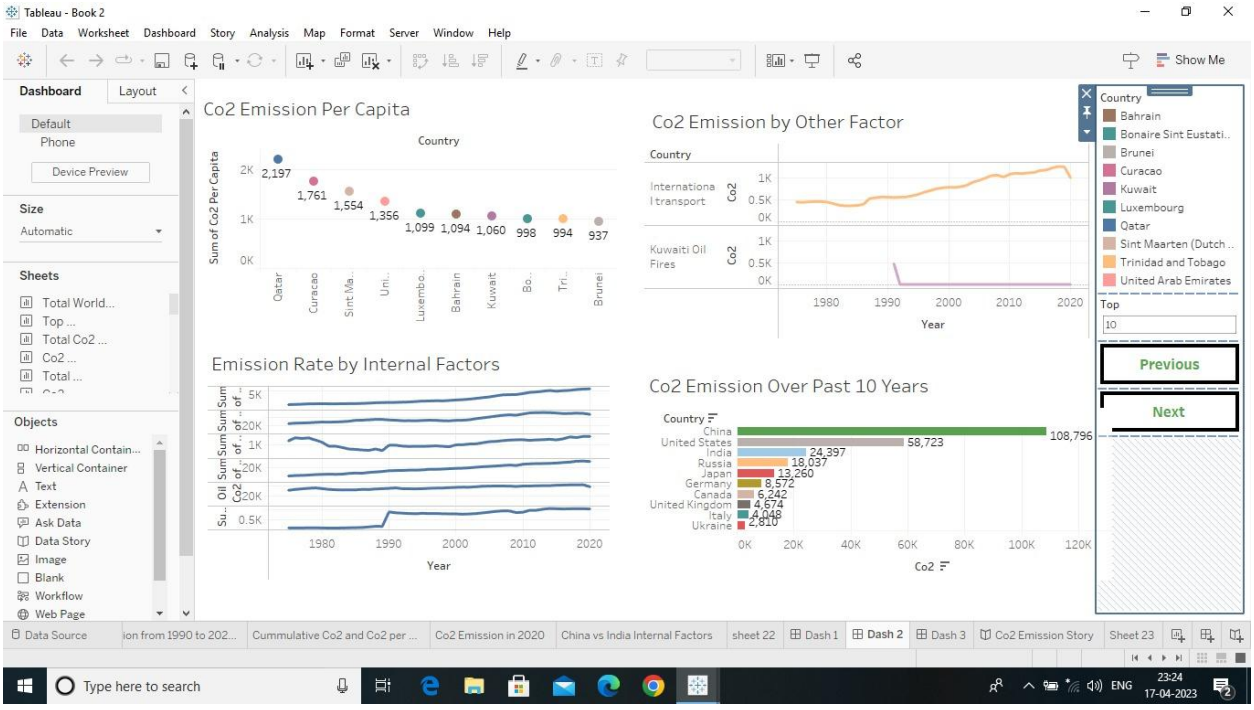


Tableau - Book 2
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Show Me
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Sheets
Total World...
Top ...
Total Co2 ...
Co2 ...
Total ...
Objects
Horizontal Contain...
Vertical Container
Text
Extension
Ask Data
Data Story
Image
Blank
Workflow
Web Page
Co2 Emission Per Capita
Country
Sum of Co2 Per Capita
2,197
1,761
1,554
1,356
1,099
1,094
1,060
998
994
937
Qatar
Curacao
Sint Ma...
Uni...
Luxembo...
Bahrain
Kuwait
Bo...
Tri...
Brunei
Co2 Emission by Other Factor
Country
Internationa l transport
Kuwaiti Oil Fires
Co2
1980
1990
2000
2010
2020
Year
Country
Bahrain
Bonaire Sint Eustati..
Brunei
Curacao
Kuwait
Luxembourg
Qatar
Sint Maarten (Dutch ..
Trinidad and Tobago
United Arab Emirates
Top
10
Previous
Next
Emission Rate by Internal Factors
Co2 Emission Over Past 10 Years
Country
China
United States
India
Russia
Japan
Germany
Canada
United Kingdom
Italy
Ukraine
108,796
58,723
24,397
18,037
13,260
8,572
6,242
4,674
4,048
2,910
Co2
Data Source
Cummulative Co2 and Co2 per ...
Co2 Emission in 2020
China vs India Internal Factors
sheet 22
Dash 1
Dash 2
Dash 3
Co2 Emission Story
Sheet 23
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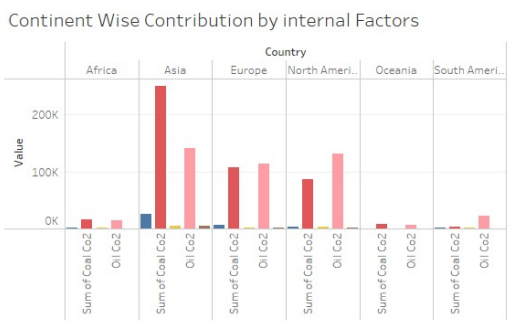
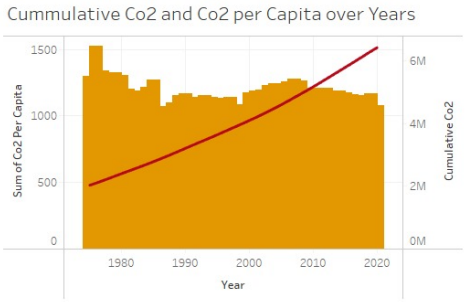
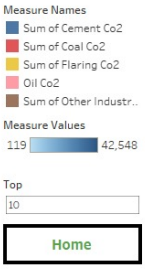
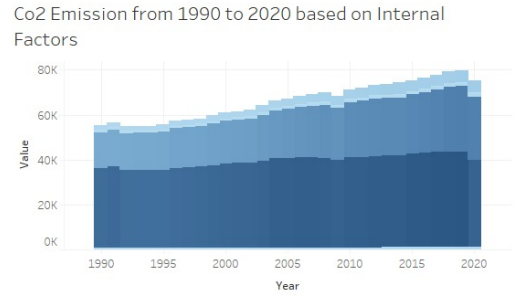
23:24
17-04-2023

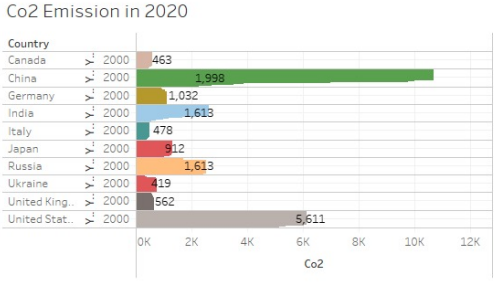

Co2 Emission Story
Countries Emitting Highest Co2
Total Co2 Emission from 1975 to 2020
Total Co2 Emission by Continents
Co2 Emission due to Internal
Co2 Emission due to External
Continents Contribution due to Coal Co2 Emission
Continents Contribution due to Cement Co2 Emission
Continents Contribution due to Gas Co2 Emission
Continents Contributio Flaring Co2
Sum of Cement Co2
Sum of Coal Co2
Sum of Flaring C...
Sum of Gas Co2
Oil Co2
1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018 2020 2022
Year
Co2 Emission from 1990 to 202...
Cummulative Co2 and Co2 per ...
Co2 Emission in 2020
China vs India Internal Factors
sheet 22
Dash 1
Dash 2
Dash 3
Co2 Emission Story
Sheet 23

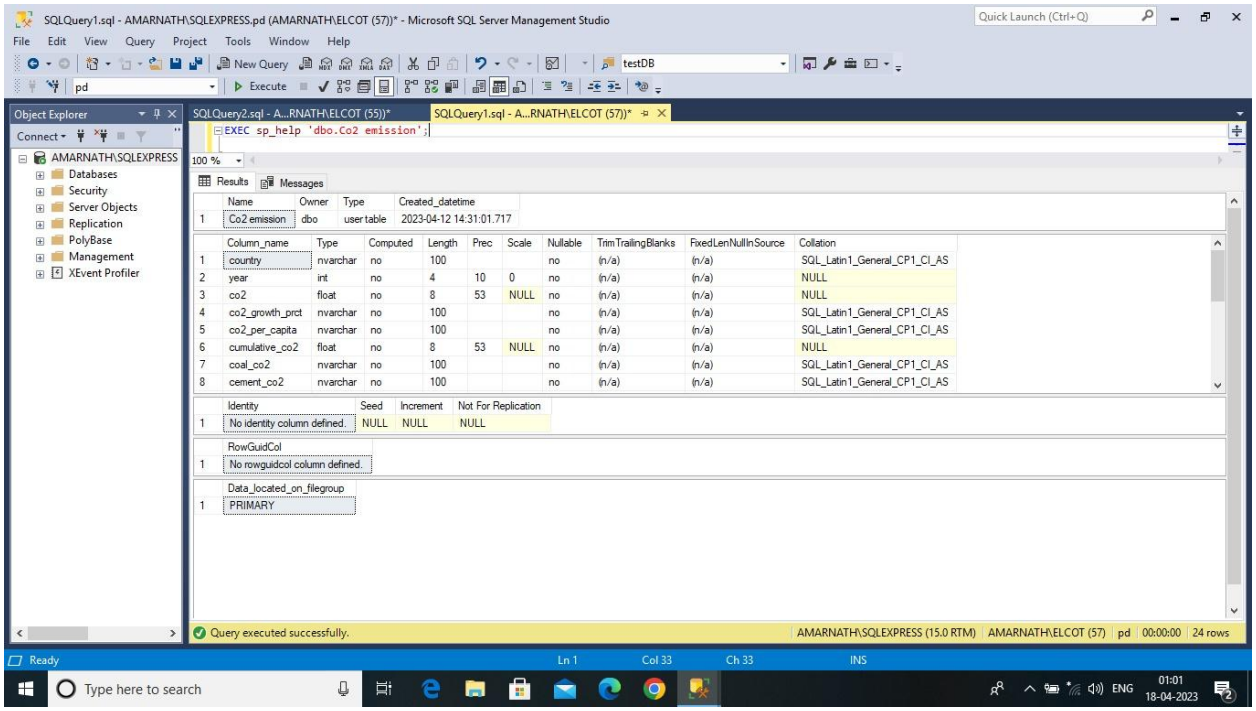

Continent Wise Contribution by internal Factors
Country
Africa
Asia
Europe
North Ameri..
Oceania
South Ameri..
Value
200K
100K
0K
Sum of Coal Co2
Oil Co2


Cummulative Co2 and Co2 per Capita over Years
Sum of Co2 Per Capita
Cumulative Co2
1500
1000
500
0
6M
4M
2M
0M
1980
1990
2000
2010
2020
Year


Measure Names
Sum of Cement Co2
Sum of Coal Co2
Sum of Flaring Co2
Oil Co2
Sum of Other Industr..
Measure Values
119
42,548
Top
10
Home


Co2 Emission from 1990 to 2020 based on Internal Factors
Value
80K
60K
40K
20K
0K
1990
1995
2000
2005
2010
2015
2020
Year


Co2 Emission in 2020
Country
Canada 2000 463
China 2000 1,998
Germany 2000 1,032
India 2000 1,613
Italy 2000 478
Japan 2000 912
Russia 2000 1,613
Ukraine 2000 419
United King.. 2000 562
United Stat.. 2000 5,611
0K
2K
4K
6K
8K
10K
12K
Co2


SQLQuery1.sql - AMARNATH\SQLEXPRESS.pd (AMARNATH\ELCOT (57))* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
testDB
Execute
Object Explorer
Connect
AMARNATH\SQLEXPRESS
Databases
Security
Server Objects
Replication
PolyBase
Management
XEvent Profiler
SQLQuery2.sql - A...RNATH\ELCOT (55))*
SQLQuery1.sql - A...RNATH\ELCOT (57))*
EXEC sp_help 'dbo.Co2 emission';
Results
Messages
Name Owner Type Created_datetime
1 Co2 emission dbo user table 2023-04-12 14:31:01.717
Column_name Type Computed Length Prec Scale Nullable TrimTrailingBlanks FixedLenNullInSource Collation
1 country nvarchar no 100 no (n/a) (n/a) SQL_Latin1_General_CP1_CI_AS
2 year int no 4 10 0 no (n/a) (n/a) NULL
3 co2 float no 8 53 NULL no (n/a) (n/a) NULL
4 co2_growth_prct nvarchar no 100 no (n/a) (n/a) SQL_Latin1_General_CP1_CI_AS
5 co2_per_capita nvarchar no 100 no (n/a) (n/a) SQL_Latin1_General_CP1_CI_AS
6 cumulative_co2 float no 8 53 NULL no (n/a) (n/a) NULL
7 coal_co2 nvarchar no 100 no (n/a) (n/a) SQL_Latin1_General_CP1_CI_AS
8 cement_co2 nvarchar no 100 no (n/a) (n/a) SQL_Latin1_General_CP1_CI_AS
Identity Seed Increment Not For Replication
1 No identity column defined. NULL NULL NULL
RowGuidCol
1 No rowguidcol column defined.
Data_located_on_filegroup
1 PRIMARY
Query executed successfully.
AMARNATH\SQLEXPRESS (15.0 RTM) AMARNATH\ELCOT (57) pd 00:00:00 24 rows
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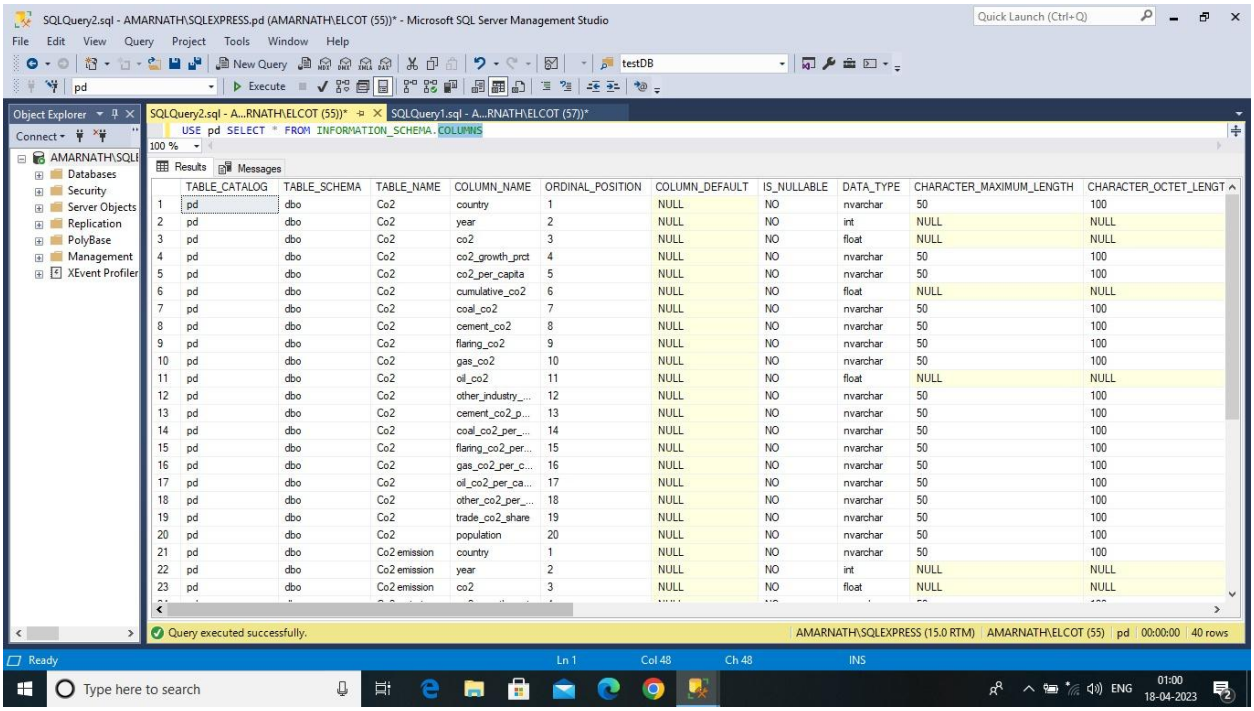
01:01
18-04-2023



ADVANTAGES

Green plants grow faster with more CO2.

Many also become more drought- resistant because higher CO2 levels allow plants to use water more efficiently.

More abundant vegetation from increased CO2 is already apparent.

Carbon dioxide is essential for internal respiration in a human body.

Internal respiration is a process, by which oxygen is transported to body tissues and carbon dioxide is carried away from them.

Carbon dioxide is a guardian of the pH of the blood, which is essential for survival.

Disadvantages

Carbon emissions are one type of greenhouse gas emission that happens when carbon dioxide enters the air after a human activity or process.

According to National Geographic, carbon dioxide is considered a pollutant, though we may more readily associate “pollution” with things like smoke or plastic floating in a lake.

But pollutants are anything that falls under the umbrella of a mix of particles and gases that have the capacity to reach harmful concentrations, according to National Geographic.

Things like soot, smoke, mold, and pollen are considered pollutants, but greenhouse gases like methane and carbon dioxide are, too.

Causes of CO2 emissions

Scientists agree that human activities have been the primary source for the observed rise in atmospheric carbon dioxide since the beginning of the fossil fuel era in the 1860s. Eighty-five percent of all human-produced carbon dioxide emissions come from the burning of fossil fuels like coal, natural gas and oil, including gasoline. The remainder results from the clearing of forests and other land use, as well as some industrial processes such as cement manufacturing. The use of fossil fuels has grown rapidly, especially since the end of World War II and continues to increase exponentially. In fact, more than half of all fossil fuels ever used by humans have been consumed in just the last 20 years.

Human activities add a worldwide average of almost 1.4 metric tons of carbon per person per year to the atmosphere. Before industrialization, the concentration of carbon dioxide in the atmosphere was about 280 parts per million. By 1958, the concentration of carbon dioxide had increased to around 315 parts per million, and by 2007, it had risen to about 383 parts per million. These increases were due almost entirely to human activity.

While we are able to accurately measure the amount of carbon dioxide in the atmosphere, much about the processes that govern its atmospheric concentration remains a mystery. Scientists still do not know precisely where all the carbon dioxide in our atmosphere comes from and where it goes. They want to learn more about the magnitudes and distributions of carbon dioxide's sources and the places it is absorbed (sinks). This knowledge will help improve critical forecasts of atmospheric carbon dioxide increases as fossil fuel use and other human activities continue. Such information is crucial to understanding the impact of human activities on climate and for evaluating options for mitigating or adapting to climate change.

Plant life and geochemical processes on land and in the ocean 'inhale' large amounts of carbon dioxide through photosynthesis and then 'exhale' most of it back into the atmosphere," Marland continued. "Humans, however, have altered the carbon cycle over the last couple of centuries, through the burning of fossil fuels that enable us to live more productively. Now that

humans are acknowledging the environmental effects of our dependence on fossil fuels and other carbon dioxide-emitting activities, our goal is to analyze the sources and sinks of this carbon dioxide and to find better ways to manage it."

There are both natural and human sources of carbon dioxide emissions. Natural sources include decomposition, ocean release and respiration. Human sources come from activities like cement production, deforestation as well as the burning of fossil fuels like coal, oil and natural gas.

Conclusion

To achieve the two-degree target with a probability of around 70%, it is estimated that global greenhouse gas emissions need to decrease by 50-60% from 2000 to 2050, and by almost 100% by 2100. To achieve a 1.5-degree target with a probability of around 70%, zero emissions are needed globally as early as 2050.

Carbon capture and sequestration is an attractive option for reducing greenhouse gas emissions and could even help remove carbon dioxide from the atmosphere.

We can use Super critical Carbon di oxide to reduce pollution as they are eco friendly.

FUTURE SCOPE

Since the Industrial Revolution, humans have emitted more than 2,000 gigatons of carbon dioxide into the atmosphere. (A gigaton is one billion metric tons.)

This concentration of CO2 and other greenhouse gases in the air causes the climate change impacts we're experiencing today, from forest fires to stifling heat waves and damaging sea level rise — and the global community is still emitting more each year. Unless we make serious changes, climate impacts will only continue to intensify.

The latest climate model scenarios show that all pathways that keep temperature rise to 1.5 degrees C (with little or no overshoot) require carbon removal.

Here are six options for removing carbon from the atmosphere:

1) Trees and Forests

Plants remove carbon dioxide from the air naturally, and trees are especially good at storing CO2 removed from the atmosphere by photosynthesis.

2) Farms and Soils

Soils naturally sequester carbon, but agricultural soils are running a big deficit due to frequent plowing and erosion from farming and grazing, all of which release stored carbon.

Because agricultural land is so expansive — encompassing more than 900 million acres in the United States alone, or approximately 40% of the country's land area — even small increases in soil carbon per acre could be impactful.

3) Biomass Carbon Removal and Storage

Biomass carbon removal and storage (BiCRS) includes a range of processes that use biomass from plants or algae to remove carbon dioxide from the air and then store it for long periods of time.

4) Direct Air Capture

Direct air capture is the process of chemically scrubbing carbon dioxide from the ambient air and then sequestering it either underground or in long-lived products like concrete.

5) Carbon Mineralization

Some minerals naturally react with CO2, turning carbon dioxide from a gas into a solid and keeping it out of the atmosphere permanently. This process is commonly referred to as "carbon mineralization" or "enhanced weathering," and it naturally happens very slowly, over hundreds or thousands of years.

6) Ocean-based Approaches

A number of ocean-based carbon removal approaches have been proposed to leverage the ocean's capacity to sequester carbon and expand the portfolio of options beyond land-based applications.