Unearthing the Environmental Impact of Human Activity:

A Global CO2 Emission Analysis

Project Report

Symbolic Image

1. Introduction

1.1 Overview

Global CO2 emissions from energy combustion and industrial processes1 rebounded in 2021 to reach their highest ever annual level. A 6% increase from 2020 pushed emissions to 36.3 gigatons (Gt), an estimate 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. 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. 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.

Tableau allows users to create interactive dashboards and visualizations, which can be used to explore different aspects of Global Emission, identify trends, and compare the performance of CO2 Analysis. The visualizations can be customized with various chart types, colors, and filters, making it easy to present complex data in an intuitive and easy-to-understand format.

The analysis may also involve using advanced features of Tableau, such as forecasting, clustering, and machine learning, to identify patterns and trends in the Global Emission and predict future needs of human. The interactive and customizable nature of Tableau also allows for a more engaging and informative presentation of the data.

1.2 Purpose

The outcomes (visualization) can be applied in various sectors

* **INCREASE AWARENESS**: This analysis provides a comprehensive overview of the impact of CO2 emission this rises an awareness among the individuals on the need to control it.

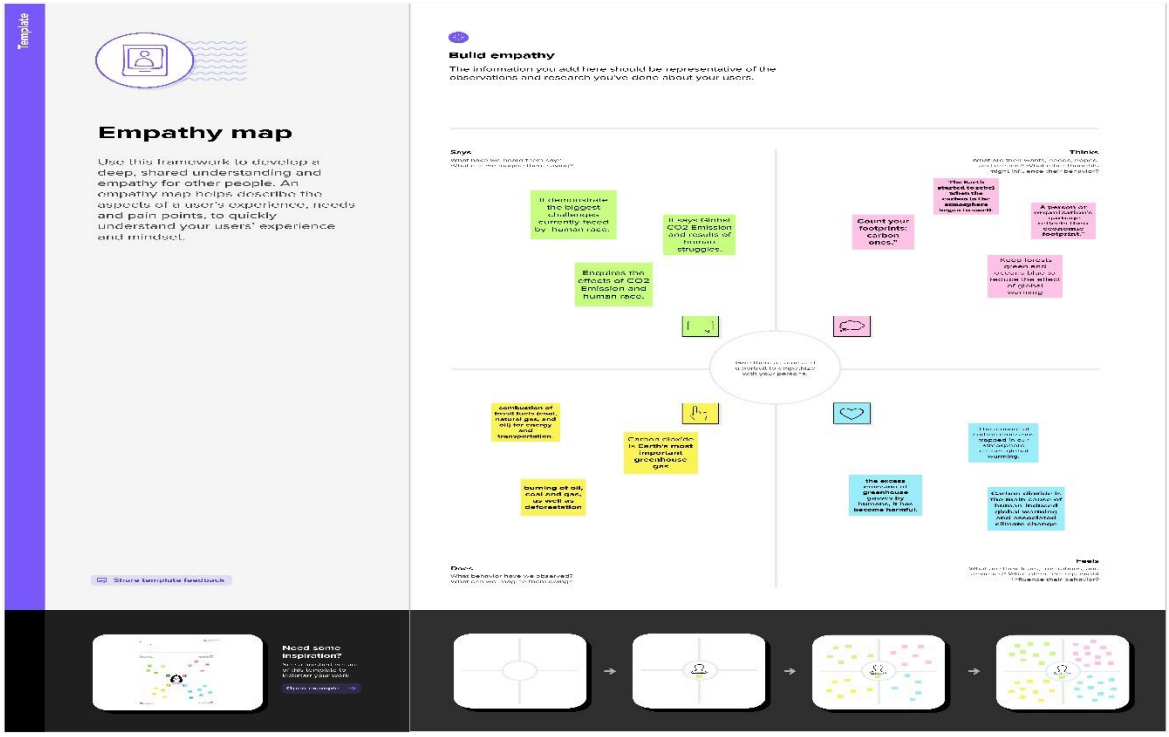
* **ACCOUNTABILITY:** This project can hold countries and companies accountable for their carbon emission. The data can be used to track progress and identity areas where improvements are needed.

* **INNOVATION**: This analysis can stimulate innovation and the development of new technologies that are more environmentally friendly companies can invest in clean energy and sustainable practices which can create new jobs and boost economics growth.

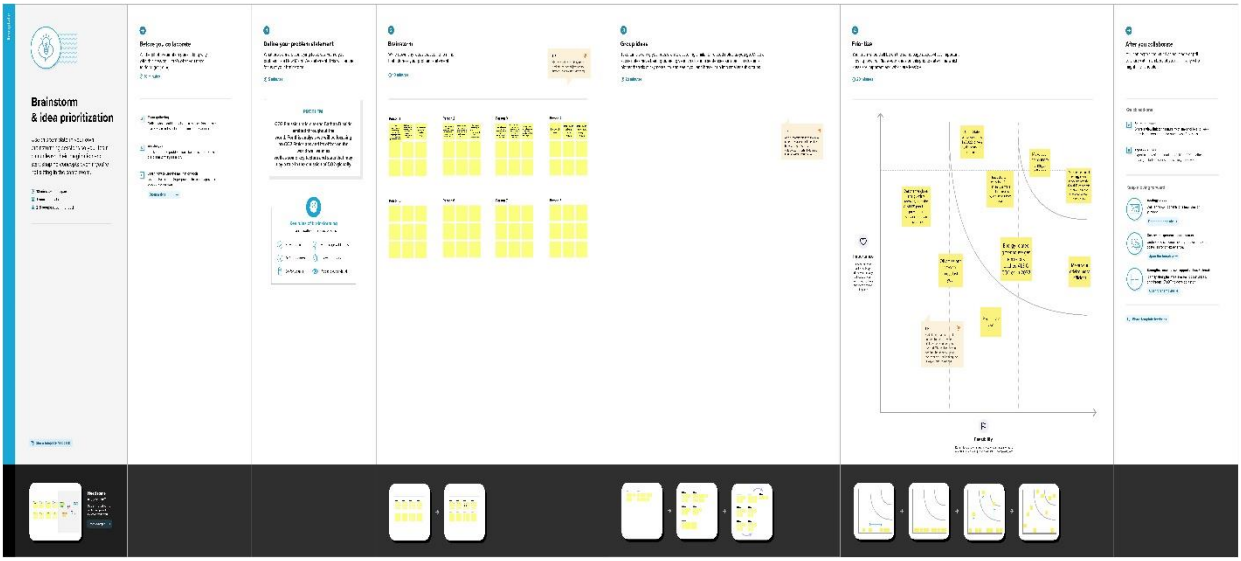
There are some of the purpose and importance of this analysis, overall, the project provides a comprehensive overview of global CO2 emission and promotes awareness and action towards the measures to control these emissions.

2. Problem Definition & Design Thinking

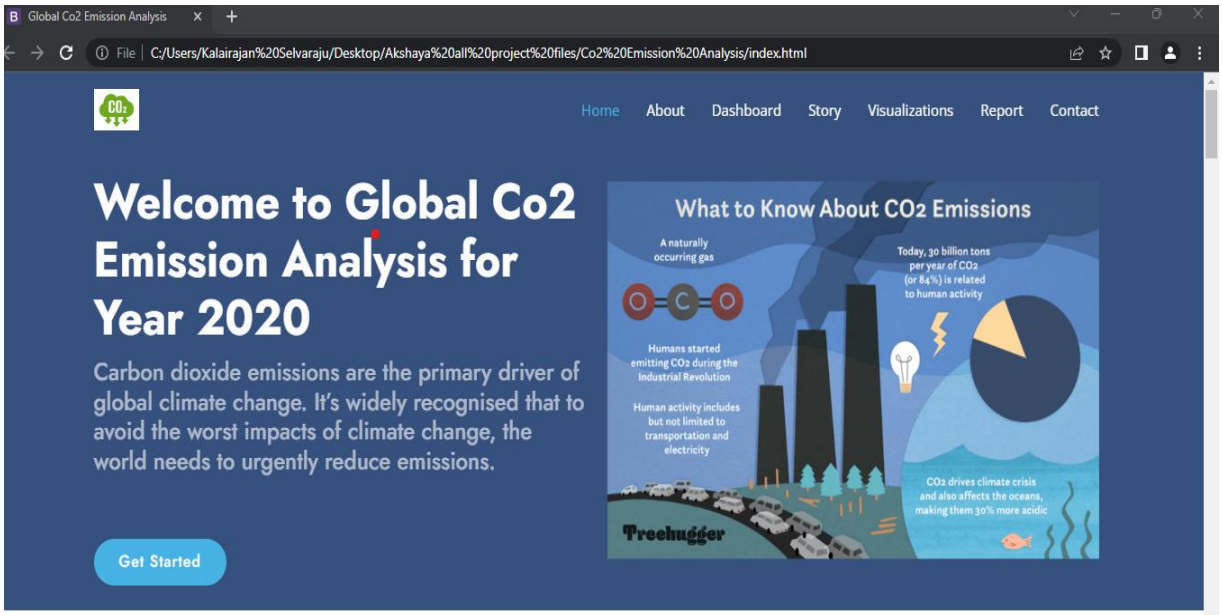
2.1 Empathy Map



2.2 Ideation & Brainstorming Map

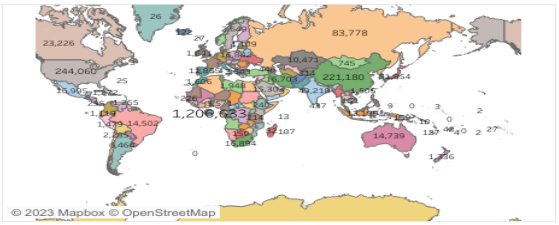


3. Results

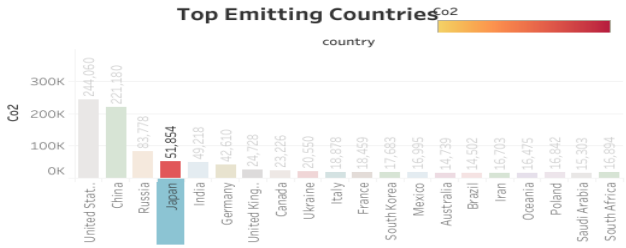

Global Co2 Emission Analysis
File | C:/Users/Kalairajan%20Selvaraju/Desktop/Akshaya%20all%20project%20files/Co2%20Emission%20Analysis/index.html
Home
About
Dashboard
Story
Visualizations
Report
Contact
Welcome to Global Co2 Emission Analysis for Year 2020
Carbon dioxide emissions are the primary driver of global climate change. It's widely recognised that to avoid the worst impacts of climate change, the world needs to urgently reduce emissions.
Get Started
What to Know About CO2 Emissions
A naturally occurring gas
Today, 30 billion tons per year of CO2 (or 84%) is related to human activity
Humans started emitting CO2 during the Industrial Revolution
Human activity includes but not limited to transportation and electricity
CO2 drives climate crisis and also affects the oceans, making them 30% more acidic
Treehugger

ABOUT US
Carbon dioxide emissions are those stemming from the burning of fossil fuels and the manufacture of cement. They include carbon dioxide produced during consumption of solid, liquid, and gas fuels and gas flaring.
Global carbon dioxide (CO2) emissions from fossil fuels and industry have increased considerably since 2000, and in 2019 reached a record high of 36.7 billion metric tons of CO2. In 2020, the COVID-19 pandemic caused global CO2 emissions to plummet five percent to 34.81 billion metric tons.
Historically, major global events cause emission reductions. The 2009 global recession caused worldwide CO2 emissions to fall by approximately 460 million metric tons. But this pales in comparison to the emission reductions in 2020. Countries around the world were put under strict lockdowns, meaning transportation and industrial activities were significantly reduced. CO2 emission levels in India droppedfor the first time in four decades in the year ending March 2020. Global CO2 emissions per capita also experienced a substantial decline in 2020, falling to an average of 4.47 metric tons per person.

Top World Emission

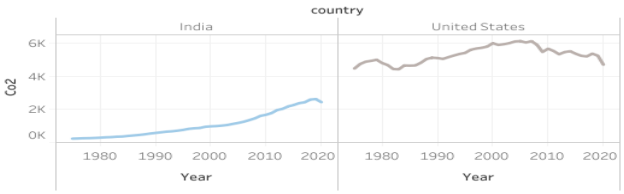


Top Emitting Countries

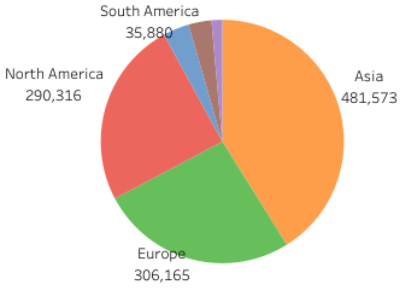


Co2 Emission Over Time

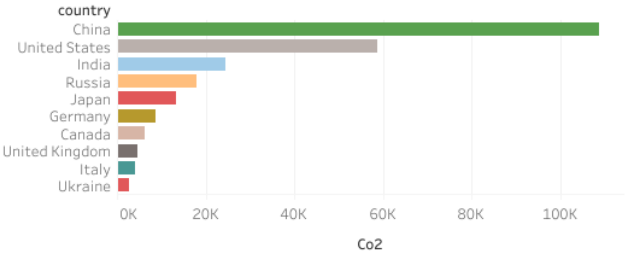
CO2 Emission India vs USA



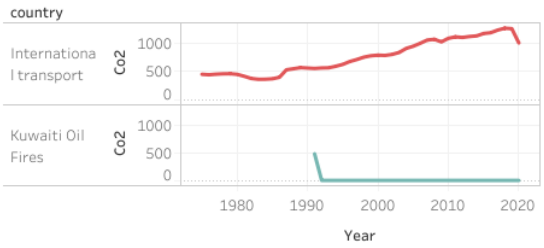
Total Emission by Continents



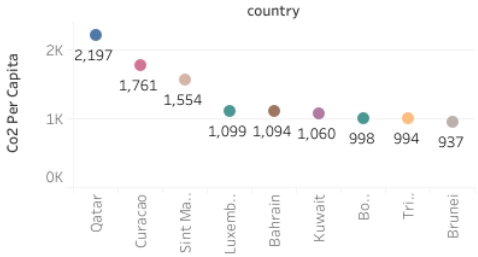
CO2 Emission Over Past 10 Years



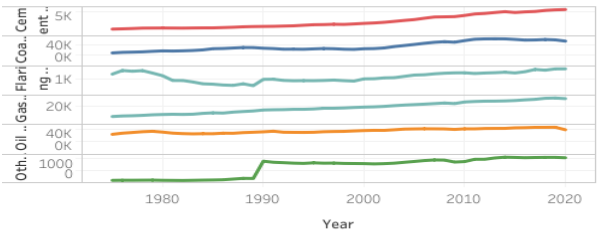
Co2 Emission by International Factors



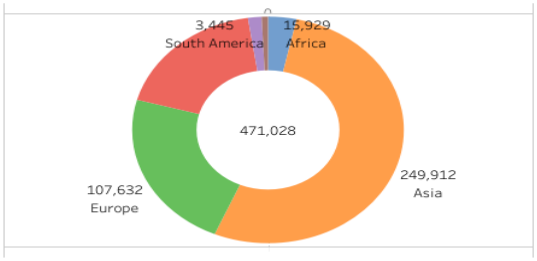
CO2 Emissions per Capita



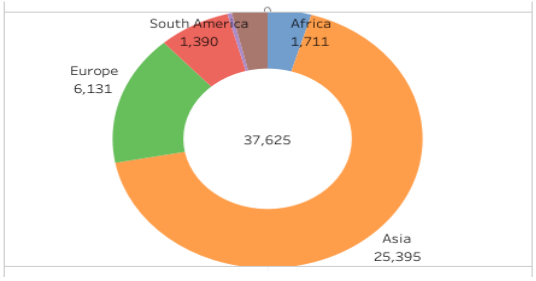
Emission Rate Over Years



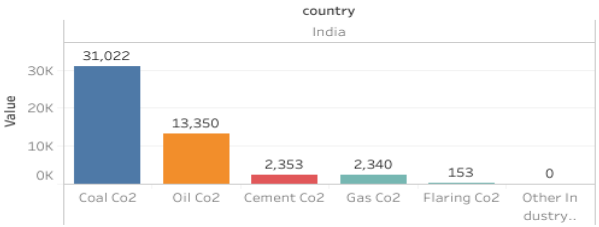
Donut Chart for Coal CO2



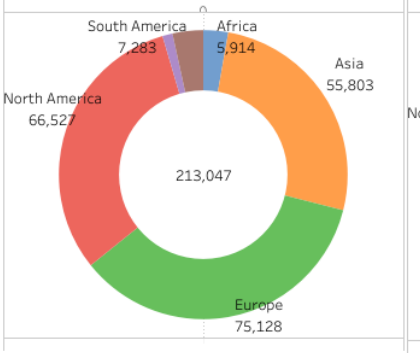
Donut Chart for Cement CO2 Emission



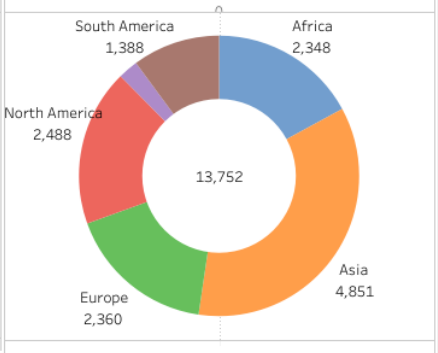
Overall Consumption By India in CO2 Emission



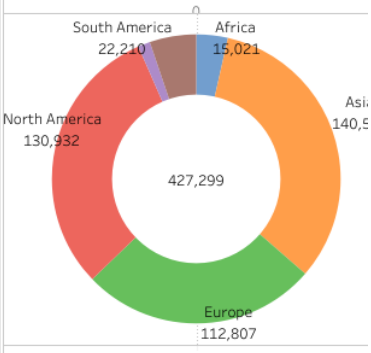
Donut Chart for Gas CO2 Emission



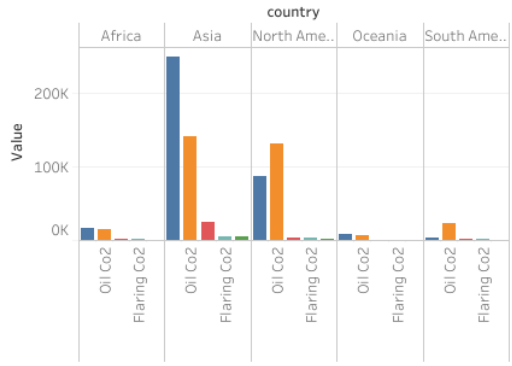
Donut Chart for Fairing CO2 Emission



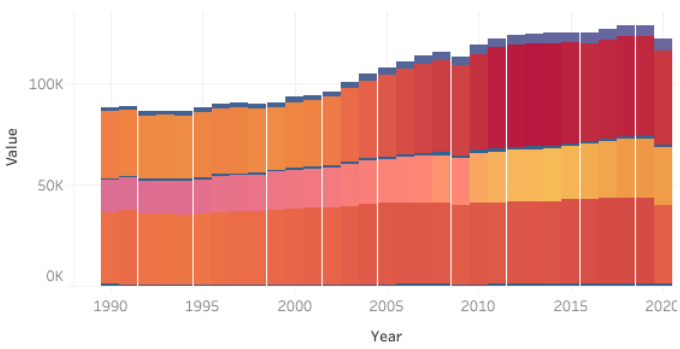
Donut Chart for Oil CO2 Emissio

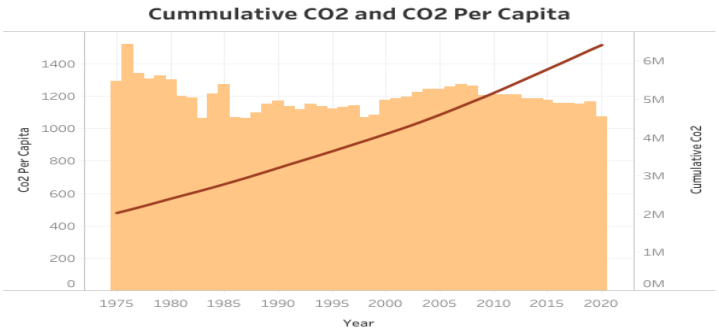


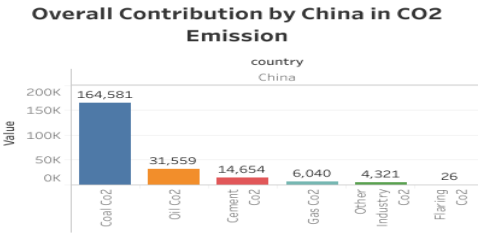
Continent Contribution in CO2 Emission

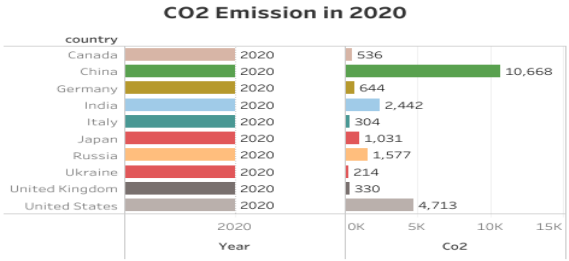


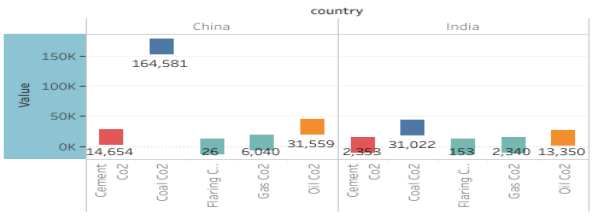
CO2 Emission from 1990 to 2020 based on Internal Factors





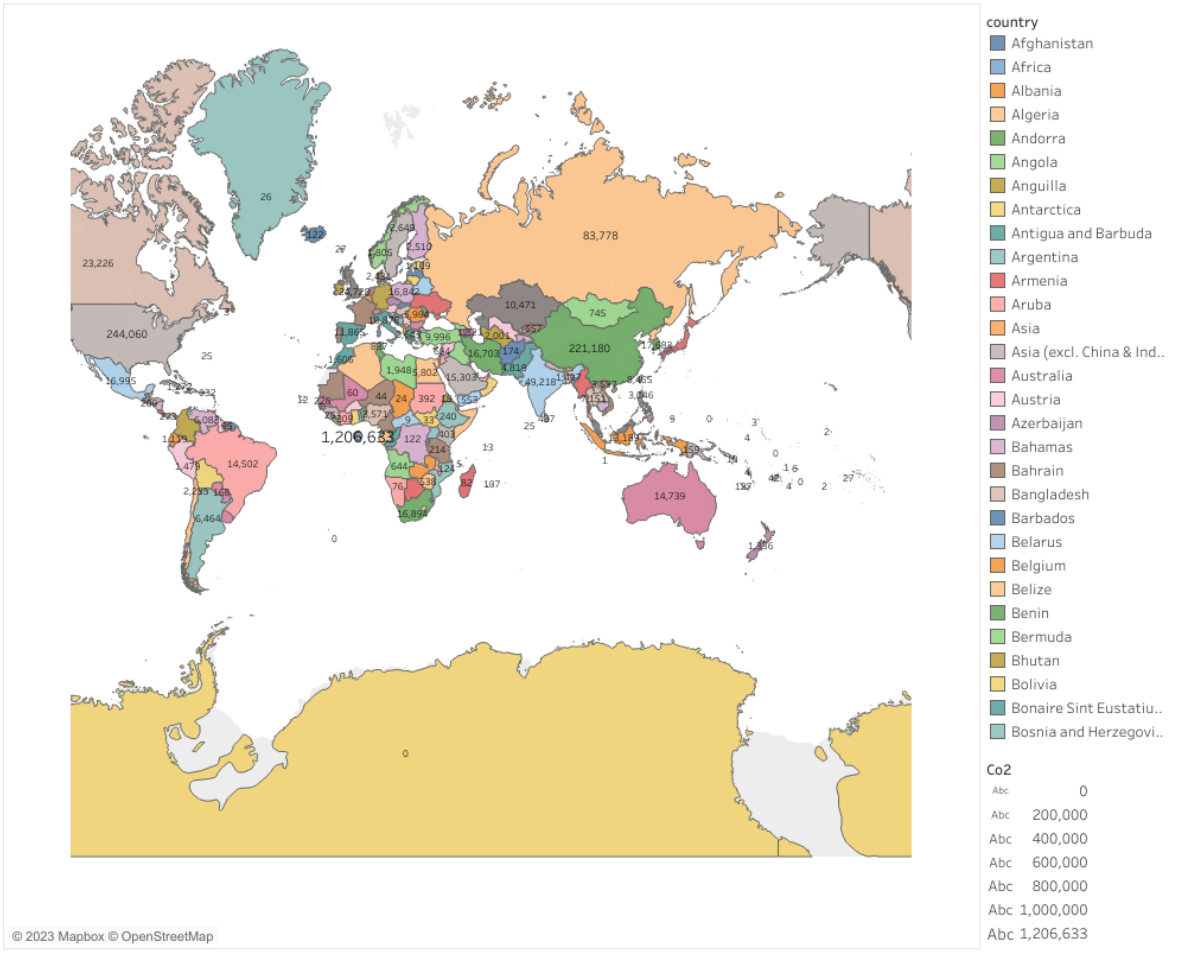




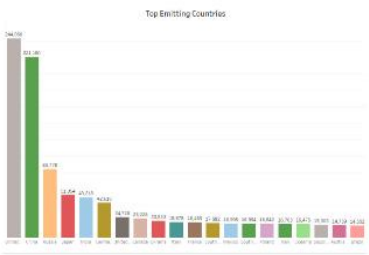


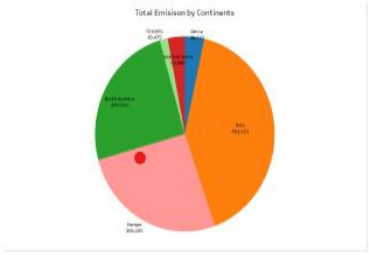
Story on Global CO2 Emission Analysis

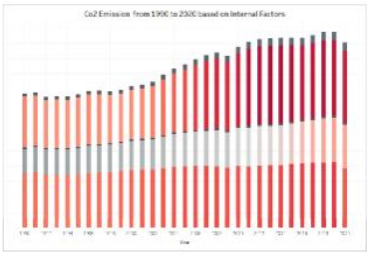
Top World Emission | Top Emitting Countries | CO2 Emission Over Time | CO2 Emission India vs USA | Total Emission by Continents | CO2 Emission per Capita | CO2 Emission by Internati..

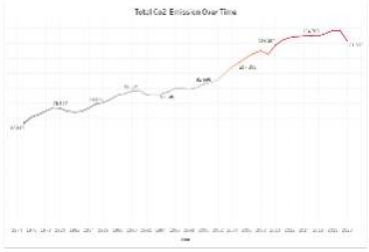


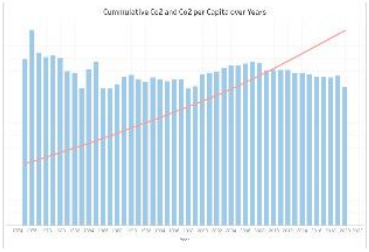
VISUALIZATIONS











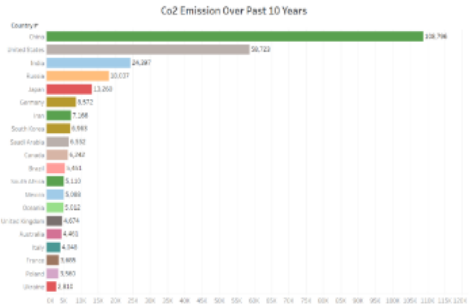
REPORT

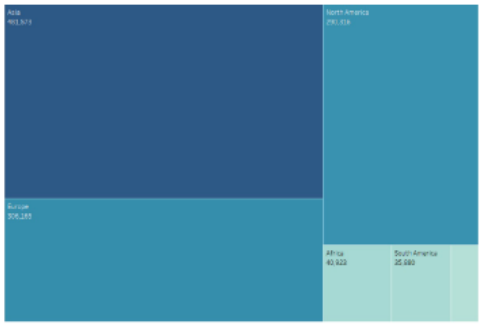
Top Co2 Emitting countries for Past 10 Years

China is the highest Co2 Emitting country among the other countries.

United States is the second highest Co2 Emitting country.

India is the Third highest Co2 Emitting country.



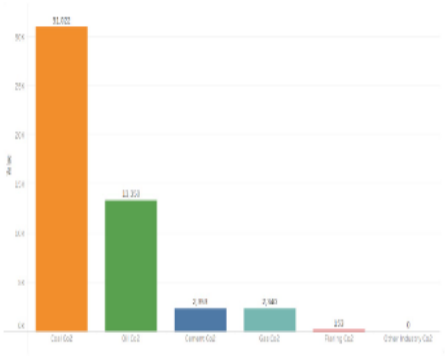


Continents Contribution towards Co2 Emission

Asian is the highest Co2 Emitting country among the other continents.

Europe is the second highest Co2 Emitting continent.

Antartica is the lowest Co2 Emitting countries becouse of low human activity/existence in the continent.



Overall India Contribution towards Co2 Emission

Coal is the highest factor of Co2 Emission.

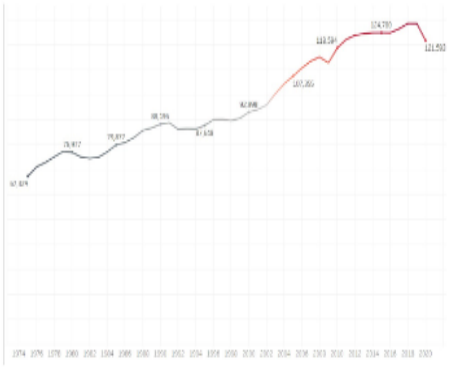
Oil is the second highest Co2 Emitting factor.

Overall Co2 Emission over time

Co2 Emission in 1975 was 67324 (in metric tons).

Co2 Emission in 2019 was 128423 (in metric tons) which was highest in the past years.

Co2 Emission in 2020 was found to be 121593 (in metric tons).



CONTACT

Location:
SmartBridge, Hyderabad,AndhraPradesh, India

Email:
info@smartbridge.com
contact@smartbridge.com

Call:
+11 1234 1234
+11 4321 4321

Your Name

Your Email

Subject

Message

Send Message

4. Advantages & disadvantages

4.1 Advantages

- Carbon capture and storage is one of the most efficient methods of extracting carbon emissions permanently from the environment.

- The numerous advantages of CCS include economic, social, and environmental, and a massive impact on a global and local scale.

- Carbon capture can increase the power generated with carbon dioxide-based steam cycles. In this process, carbon dioxide is pressured through a supercritical fluid, which could transfer heat more effectively and require less energy to compress steam.

- Geologically stored carbon dioxide might be utilized to retrieve geothermal heat from the area injected which results in the generation of sustainable geothermal energy.

- Carbon dioxide captured with carbon capture can also be utilized in the manufacturing of polymers and chemicals such as polyurethanes.

- The captured carbon dioxide is incorporated into concrete to reinforce it and increase the durability of the infrastructure. The carbon capture operations create employment for skilled engineers and technicians who need to operate them.

4.2 Disadvantages

- Since greenhouse gases helps to maintain the temperature, the primary effect of the increase in greenhouse gases would be on climate. This would mean warmer

summers with natural disasters. Hurricanes have become common in recent years.

- Water level balance of the earth would be destroyed. Polar ice caps would melt leading to an increase in the ocean level. Floods will inundate low lying areas.

- Global warming would also affect the weather pattern. Rainfall would become erratic in many parts of the world. This might eventually lead to desertification.

- The effect on human and economic life would also be tremendous. It is estimated that the rise in temperature would reduce global output by 2 to 3 percent. This cost would run into trillions of dollars. As agricultural production is affected, this might lead to frequent famines and famine related diseases.

- Marine life and ecosystem would be destroyed. Oceans absorb carbon dioxide thereby affecting the level of alkalinity. Many forms of marine life would be adversely affected if alkalinity increases. Polar ecosystems would be destroyed. In the Arctic, melting polar caps are threatening the habitats of polar bears and penguins.

5. Applications

Food and Beverage:

Among the most popular CO2 applications, liquid or solid CO2 (dry ice) is commonly used in these industries as a method of cooling, quick freezing, and refrigeration. It is also used to carbonate beverages such as sodas, beers, and wine. This is a great way to prevent fungal and bacterial growth in these beverages. It can also be used to neutralize drinking water**.**

Extraction CO2 Applications:

In its liquid form, CO2 is an excellent solvent capable of extracting desired and undesired compounds from a food, beverage or other material. A longstanding use of this extraction method is the decaffeination of coffee. It is also used to create essential oils and herbal supplements as well. More recently, supercritical CO2 has become an extraction method of choice in the hemp and botanical extraction industry. Using CO2 as an extraction solvent as opposed to ethanol or hydrocarbons reduces the chance to leave unwanted residuals in a final hemp extract product.

Blasting:

Dry ice pellets are often used as an alternative to sandblasting when removing paint from surfaces. This drastically reduces the need and costs for cleanup and disposal that would result from sandblasting as the dry ice sublimates after use leaving little to no waste product after the blasting is done.

Environmental CO2 Applications:

CO2 can be used as a propellant in replacement of less “green” alternatives found in aerosol cans. Manufacturing operations that use solvents for extraction often convert to CO2 in an effort to be more mindful of their environmental impact.

Laser Cutting:

CO2 powered lasers are commonly used for engraving, cutting and boring by passing an electric current through the gas. These high-powered lasers can cut through steel, fabrics, ceramics, wood, glass and even titanium.

Welding Gas:

CO2 is also used for a variety of welding applications as a welding gas in combination with argon. The benefit of using CO2 as a welding gas is the prevention of airborne contamination from molten metals because of the purity of CO2.Whether you are in pharmaceuticals, food and beverages, extraction or any

other industry that uses CO2 applications, extractable has a solution with the CO2Cage and MP Cart system. Contact us today to find out how the extractable solution will benefit you today.

6. Conclusion

The Global Co2 emission analysis involves a wide analysis of Co2 emission. We have worked on worksheets where we gave charts and graphs regarding CO2 emission and made dashboard and story using the following charts.

- ☆ **Total World Emission**
- ☆ **Top emitting countries**
- ☆ **Total CO2 emission overtime**
- ☆ **Total emission by continents**
- ☆ **CO2 emission by international factors**
- ☆ **CO2 emission over past 10 years**
- ☆ **Continent voice contribution by internal factors**
- ☆ **CO2 emission from 1990 to 2020 based on internal factors**
- ☆ **Cumulative CO2and CO2 per capita**
- ☆ **CO2 emission in 2020**
- ☆ **Overall contribution by China in CO2 emission.**

By using data analytics tools, we have observed the major contributors and factors all over the world.CO2 emission over past 10 years shows that China ranks first in CO2
emission followed by United States and India ranks third in this emission.

The internal factors include coal CO2, gas CO2, cement CO2, flaring CO2 and other industry CO2. By compressing the major factors and contributors of CO2 emission can pay a way to solve the people can make reduce the emission by switching to clean energy, implementation of carbon capture and storage and planting more trees.

7. Future scope

By Analyzing the data set we can make an aware of CO2 emission among people. People think of long-term effect such as health hazards due to the emission. We can stand along with India's cabinet updated climate plan, including a 2070 net zero goal and 45% reduction in emission intensity by 2030. Sustainable heating in greenhouse horticulture. Implantation of activated charcoal fuels. Helping and supporting Indian organizations to be a " Carbon Neutral Company" under the carbon of set standard. Carbon stories in soil and vegetation through pilot programs for climate friendly land use. Public transportation or carpool can be encouraged. Usage of alternative sources of energy instead of fossil fuels. Reduce the emission gives a sustainable society.

8. Appendix

8.1 HTML code for the output web page

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    <meta content="width=device-width, initial-scale=1.0" name="viewport">

    <title>Global Co2 Emission Analysis</title>
```

```
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    <meta content="" name="keywords">

    <!-- Favicons -->
    <link href="assets/img/favicon.png" rel="icon">
    <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">

    <!-- Google Fonts -->
    <link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,
600i,700,700i|Jost:300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300,30
0i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">

    <!-- Vendor CSS Files -->
    <link href="assets/vendor/aos/aos.css" rel="stylesheet">
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    <link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
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rel="stylesheet">
    <link href="assets/vendor/remixicon/remixicon.css" rel="stylesheet">
    <link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">

    <!-- Template Main CSS File -->
    <link href="assets/css/style.css" rel="stylesheet">

    <!-- =======================================================
  * Template Name: Arsha - v4.10.0
  * Template URL: https://bootstrapmade.com/arsha-free-bootstrap-html-
template-corporate/
  * Author: BootstrapMade.com
  * License: https://bootstrapmade.com/license/
  ======================================================== -->
</head>

<body>

    <!-- ======= Header ======= -->
    <header id="header" class="fixed-top ">
        <div class="container d-flex align-items-center justify-content-
between">

            <h1 class="logo"><img
src="https://media.istockphoto.com/id/1323550608/vector/co2-reduction-cloud-
eco-vector-
```

```
icon.jpg?s=612x612&w=0&k=20&c=jO3OZfYAg9gB8TWvzH8BR64Lq3pFrfHcOvxpSgB-cjA=">
</h1>
            <!-- Uncomment below if you prefer to use an image logo -->
            <!-- <a href="index.html" class="logo me-auto"><img
src="assets/img/logo.png" alt="" class="img-fluid"></a>-->

            <nav id="navbar" class="navbar">
                <ul>
                    <li><a class="nav-link scrollto active"
href="#hero">Home</a></li>
                    <li><a class="nav-link scrollto"
href="#about">About</a></li>
                    <li><a class="nav-link scrollto"
href="#dash">Dashboard</a></li>
                    <li><a class="nav-link scrollto"
href="#services">Story</a></li>
                    <li><a class="nav-link scrollto"
href="#portfolio">Visualizations</a></li>
                    <li><a class="nav-link scrollto"
href="#report">Report</a></li>
                    <li><a class="nav-link scrollto"
href="#contact">Contact</a></li>

                </ul>
                <i class="bi bi-list mobile-nav-toggle"></i>
            </nav>
            <!-- .navbar -->

        </div>
    </header>
    <!-- End Header -->

    <!-- ======= Hero Section ======= -->
    <section id="hero" class="d-flex align-items-center">

        <div class="container">
            <div class="row">
                <div class="col-lg-6 d-flex flex-column justify-content-center
pt-4 pt-lg-0 order-2 order-lg-1" data-aos="fade-up" data-aos-delay="200">
                    <h1>Welcome to Global Co2 Emission Analysis for Year
2020</h1>
                    <h2>Carbon dioxide emissions are the primary driver of
global climate change. It’s widely recognised that to avoid the worst impacts
of climate change, the world needs to urgently reduce emissions.</h2>
                    <div class="d-flex justify-content-center justify-content-
lg-start">
                        <a href="#about" class="btn-get-started scrollto">Get
Started</a>
```

```
                        <a href="https://www.youtube.com/watch?v=jDDaplaOz7Q"
class="glightbox btn-watch-video"></a>
                    </div>
                </div>
                <div class="col-lg-6 order-1 order-lg-2 hero-img" data-
aos="zoom-in" data-aos-delay="200">
                    <img
src="https://www.treehugger.com/thmb/LbdMV9gbfA1S7Y3SB0XhlSl4EFw=/1500x0/filte
rs:no_upscale():max_bytes(150000):strip_icc()/co-why-is-carbon-dioxide-bad-
4864246_V2-4ea7c0936b5a4cd3b8d4f2b41ec02f63.png" class="img-fluid animated"
alt="">
                </div>
            </div>
        </div>

    </section>
    <!-- End Hero -->

    <main id="main">

        <!-- ======= Clients Section ======= -->

        <!-- End Cliens Section -->

        <!-- ======= About Us Section ======= -->
        <section id="about" class="about">
            <div class="container">

                <div class="section-title">
                    <h2>About Us</h2>
                </div>

                <div class="row content">
                    <div class="col-lg-12">
                        <p>
                            Carbon dioxide emissions are those stemming from
the burning of fossil fuels and the manufacture of cement. They include carbon
dioxide produced during consumption of solid, liquid, and gas fuels and gas
flaring.
                        </p>
                        <p>
                            Global carbon dioxide (CO2) emissions from fossil
fuels and industry have increased considerably since 2000, and in 2019 reached
a record high of 36.7 billion metric tons of CO2. In 2020, the COVID-19
pandemic caused global CO2 emissions to plummet five
                            percent to 34.81 billion metric tons.</p>
```

```
                        <p> Historically, major global events cause emission
reductions. The 2009 global recession caused worldwide CO2 emissions to fall
by approximately 460 million metric tons. But this pales in comparison to the
emission reductions in
                            2020. Countries around the world were put under
strict lockdowns, meaning transportation and industrial activities were
significantly reduced. CO2 emission levels in India dropped for the first time
in four decades in the year
                            ending March 2020. Global CO2 emissions per capita
also experienced a substantial decline in 2020, falling to an average of 4.47
metric tons per person.</p>

                    </div>
                </div>

            </div>
        </section>
        <!-- End About Us Section -->

        <!-- ======= Why Us Section ======= -->
        <section id="dash" class="">
            <div class="container-fluid" data-aos="fade-up">
                <div class="section-title">
                    <h2>Dashboard</h2>
                </div>
                <div class='tableauPlaceholder' id='viz1672205035633'
style='position: relative'><noscript><a href='#'><img alt='Dashboard 1 '
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Co&#47;Co2da
sh&#47;Dashboard1&#47;1_rss.png' style='border: none' /></a></noscript><object
class='tableauViz' style='display:none;'><param name='host_url'
value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param
name='embed_code_version' value='3' /> <param name='site_root' value=''
/><param name='name' value='Co2dash&#47;Dashboard1' />
                  <param name='tabs' value='no' /><param name='toolbar'
value='yes' />
                  <param name='static_image'
value='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Co&#47;Co2
dash&#47;Dashboard1&#47;1.png' />
                  <param name='animate_transition' value='yes' />
                  <param name='display_static_image' value='yes' />
                  <param name='toolbar' value='no' />
                  <param name='display_spinner' value='yes' />
                  <param name='display_overlay' value='yes' />
                  <param name='display_count' value='yes' />
                  <param name='language' value='en-US' />
                  <param name='showShareOptions' value='false' />
                </object>
                </div>
```

```
                <script type='text/javascript'>
                    var divElement =
document.getElementById('viz1672205035633');
                    var vizElement =
divElement.getElementsByTagName('object')[0];
                    if (divElement.offsetWidth > 800) {
                        vizElement.style.width = '100%';
                        vizElement.style.height = (divElement.offsetWidth *
0.75) + 'px';
                    } else if (divElement.offsetWidth > 500) {
                        vizElement.style.width = '90%';
                        vizElement.style.height = (divElement.offsetWidth *
0.75) + 'px';
                    } else {
                        vizElement.style.width = '100%';
                        vizElement.style.height = '1477px';
                    }
                    var scriptElement = document.createElement('script');
                    scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
                    vizElement.parentNode.insertBefore(scriptElement,
vizElement);
                </script>

            </div>




            <!-- End Why Us Section -->
            <section id="services" class="services">
                <div class="container" data-aos="fade-up">
                    <div class="section-title">
                        <h2>Story</h2>
                    </div>

                    <div class='tableauPlaceholder' id='viz1672206123585'
style='position: relative'>
                        <noscript><a href='#'><img alt='CO2 Emission Story '
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;G4&#47;G4Q8N
94F4&#47;1_rss.png' style='border: none' /></a>
                    </noscript><object class='tableauViz' style='display:none;'>
                        <param name='host_url'
value='https%3A%2F%2Fpublic.tableau.com%2F' />
                         <param name='embed_code_version' value='3' /> <param
name='path' value='shared&#47;G4Q8N94F4' />
                          <param name='toolbar' value='yes' />
```

```
                    <param name='static_image'
value='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;G4&#47;G4Q
8N94F4&#47;1.png' />
                    <param name='animate_transition' value='yes' />
                    <param name='display_static_image' value='yes' />
                    <param name='display_spinner' value='yes' />
                    <param name='display_overlay' value='yes' />
                    <param name='display_count' value='yes' />
                    <param name='language' value='en-US' /></object></div>
                <script type='text/javascript'>
                    var divElement =
document.getElementById('viz1672206123585');
                    var vizElement =
divElement.getElementsByTagName('object')[0];
                    vizElement.style.width = '100%';
                    vizElement.style.height = (divElement.offsetWidth *
0.75) + 'px';
                    var scriptElement = document.createElement('script');
                    scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
                    vizElement.parentNode.insertBefore(scriptElement,
vizElement);
                </script>

            </div>
        </section>

        <!-- ======= Skills Section ======= -->

        <!-- End Skills Section -->


        <!-- End Services Section -->

        <!-- ======= Cta Section ======= -->

        <!-- End Cta Section -->

        <!-- ======= Portfolio Section ======= -->
        <section id="portfolio" class="portfolio">
            <div class="container" data-aos="fade-up">

                <div class="section-title">
                    <h2>Visualizations</h2>

                </div>

                <div class="row portfolio-container">
```

```
                        <div class="col-lg-4 col-md-6 portfolio-item filter-
web">
                            <div class="portfolio-wrap">
                                <img src="assets/img/img2.jpg" class="img-
fluid" alt="">
                                <div class="portfolio-info">
                                    <h4>Image 1 </h4>

                                    <div class="portfolio-links">
                                        <a href="assets/img/portfolio/p1.jpg"
data-gallery="portfolioGallery" class="portfolio-lightbox" title="Web 3"><i
class="bx bx-plus"></i></a>

                                    </div>
                                </div>
                            </div>
                        </div>

                        <div class="col-lg-4 col-md-6 portfolio-item filter-
web">
                            <div class="portfolio-wrap">
                                <img src="assets/img/img3.jpg" class="img-
fluid" alt="">
                                <div class="portfolio-info">
                                    <h4>Image 2 </h4>

                                    <div class="portfolio-links">
                                        <a href="assets/img/portfolio/p1.jpg"
data-gallery="portfolioGallery" class="portfolio-lightbox" title="Web 3"><i
class="bx bx-plus"></i></a>

                                    </div>
                                </div>
                            </div>
                        </div>
                        <div class="col-lg-4 col-md-6 portfolio-item filter-
web">
                            <div class="portfolio-wrap">
                                <img src="assets/img/img4.jpg" class="img-
fluid" alt="">
                                <div class="portfolio-info">
                                    <h4>Image 3 </h4>

                                    <div class="portfolio-links">
                                        <a href="assets/img/portfolio/p1.jpg"
data-gallery="portfolioGallery" class="portfolio-lightbox" title="Web 3"><i
class="bx bx-plus"></i></a>
```

```
                                </div>
                            </div>
                        </div>
                    </div>

                    <div class="col-lg-4 col-md-6 portfolio-item filter-
web">
                        <div class="portfolio-wrap">
                            <img src="assets/img/img5.jpg" class="img-
fluid" alt="">
                            <div class="portfolio-info">
                                <h4>Image 5</h4>
                                <div class="portfolio-links">
                                    <a href="assets/img/portfolio/p5.jpg"
data-gallery="portfolioGallery" class="portfolio-lightbox" title="Web 3"><i
class="bx bx-plus"></i></a>
                                </div>
                            </div>
                        </div>
                    </div>
                    <div class="col-lg-4 col-md-6 portfolio-item filter-
web">
                        <div class="portfolio-wrap">
                            <img src="assets/img/img6.jpg" class="img-
fluid" alt="">
                            <div class="portfolio-info">
                                <h4>Image 6</h4>
                                <div class="portfolio-links">
                                    <a href="assets/img/portfolio/p5.jpg"
data-gallery="portfolioGallery" class="portfolio-lightbox" title="Web 3"><i
class="bx bx-plus"></i></a>
                                </div>
                            </div>
                        </div>
                    </div>
                    <div class="col-lg-4 col-md-6 portfolio-item filter-
web">
                        <div class="portfolio-wrap">
                            <img src="assets/img/img7.jpg" class="img-
fluid" alt="">
                            <div class="portfolio-info">
                                <h4>Image 4</h4>
                                <div class="portfolio-links">
                                    <a href="assets/img/portfolio/p5.jpg"
data-gallery="portfolioGallery" class="portfolio-lightbox" title="Web 3"><i
class="bx bx-plus"></i></a>
                                </div>
                            </div>
```

```
                        </div>
                    </div>


                </div>

            </div>
        </section>
        <section id="report" class="skills">
            <div class="container" data-aos="fade-up">
                <div class="section-title">
                    <h2>Report</h2>

                </div>
                <div class="row content">
                    <div class="col-md-5 order-1 order-md-2" data-
aos="fade-right" data-aos-delay="100">
                        <img src="assets/img/r1.jpg" class="img-fluid"
alt="">
                    </div>
                    <div class="col-lg-6 pt-4 pt-lg-0 content" data-
aos="fade-left" data-aos-delay="100">
                        <h3>Top Co2 Emitting countries for Past 10
Years</h3>
                        <br>
                        <p class="fst-italic">
                            China is the highest Co2 Emitting country
among the other countries.
                        </p>
                        <p class="fst-italic">
                            United States is the second highest Co2
Emitting country.
                        </p>
                        <p class="fst-italic">
                            India is the Third highest Co2 Emitting
country.
                        </p>
                    </div>
                </div>
                <br>
                <br>

                <div class="row content">
                    <div class="col-md-5" data-aos="fade-right">
                        <img src="assets/img/r2.jpg" class="img-fluid"
alt="">
                    </div>
                    <div class="col-md-7 pt-5" data-aos="fade-left">
```

```
                            <h3>Continents Contribution towards Co2
Emission</h3>
                            <br>
                            <p class="fst-italic">
                                Asian is the highest Co2 Emitting country
among the other continents.
                            </p>
                            <p class="fst-italic">
                                Europe is the second highest Co2 Emitting
continent.
                            </p>
                            <p class="fst-italic">
                                Antartica is the lowest Co2 Emitting countries
because of low human activity/existence in the continent.
                            </p>

                        </div>
                        <br>
                        <br>
                        <div class="row content">
                            <div class="col-md-5" data-aos="fade-right">
                                <img src="assets/img/r3.jpg" class="img-fluid"
alt="">
                            </div>
                            <div class="col-md-7 pt-5" data-aos="fade-left">
                                <h3>Overall India Contribution towards Co2
Emission</h3>
                                <br>
                                <p class="fst-italic">
                                    Coal is the highest factor of Co2
Emission.
                                </p>
                                <p class="fst-italic">
                                    Oil is the second highest Co2 Emitting
factor.
                                </p>
                            </div>
                        </div>
                        <div class="row content">
                            <div class="col-md-5 order-1 order-md-2" data-
aos="fade-left">
                                <img src="assets/img/r5.jpg" class="img-fluid"
alt="">
                            </div>
                            <div class="col-md-7 pt-5 order-2 order-md-1"
data-aos="fade-right">
                                <h3>Overall Co2 Emission over time </h3>
                                <br>
```

```
                                <p class="fst-italic">
                                    Co2 Emission in 1975 was 67324 (in metric
tons).
                                </p>
                                <p class="fst-italic">
                                    Co2 Emission in 2019 was 128423 (in metric
tons) which was highest in the past years.
                                </p>
                                <p class="fst-italic">
                                    Co2 Emission in 2020 was found to be
121593 (in metric tons).
                                </p>
                            </div>
                        </div>

                    </div>
                </div>



            </section>
            <!-- End Portfolio Section -->

            <!-- ======= Team Section ======= -->

            <!-- End Team Section -->

            <!-- ======= Pricing Section ======= -->

            <!-- End Pricing Section -->


            <!-- ======= Contact Section ======= -->
            <section id="contact" class="contact">
                <div class="container" data-aos="fade-up">

                    <div class="section-title">
                        <h2>Contact</h2>
                    </div>

                    <div class="row">

                        <div class="col-lg-5 d-flex align-items-stretch">
                            <div class="info">
                                <div class="address">
                                    <i class="bi bi-geo-alt"></i>
                                    <h4>Location:</h4>
                                    <p>SmartBridge, Hyderabad,AndhraPradesh,
India</p>
```

```
                                </div>

                                <div class="email">
                                    <i class="bi bi-envelope"></i>
                                    <h4>Email:</h4>
                                    <p>info@smartbridge.com<br>contact@smartbridge.com</p>
                                </div>

                                <div class="phone">
                                    <i class="bi bi-phone"></i>
                                    <h4>Call:</h4>
                                    <p>+11 1234 1234<br>+11 4321 4321</p>
                                </div>


                            </div>

                        </div>

                        <div class="col-lg-7 mt-5 mt-lg-0 d-flex align-items-stretch">
                            <form action="forms/contact.php" method="post" role="form" class="php-email-form">
                                <div class="row">
                                    <div class="form-group col-md-6">
                                        <label for="name">Your Name</label>
                                        <input type="text" name="name" class="form-control" id="name" required>
                                    </div>
                                    <div class="form-group col-md-6">
                                        <label for="name">Your Email</label>
                                        <input type="email" class="form-control" name="email" id="email" required>
                                    </div>
                                </div>
                                <div class="form-group">
                                    <label for="name">Subject</label>
                                    <input type="text" class="form-control" name="subject" id="subject" required>
                                </div>
                                <div class="form-group">
                                    <label for="name">Message</label>
                                    <textarea class="form-control" name="message" rows="10" required></textarea>
                                </div>
                                <div class="my-3">
                                    <div class="loading">Loading</div>
                                    <div class="error-message"></div>
```

```
                                    <div class="sent-message">Your message has
been sent. Thank you!</div>
                                </div>
                                <div class="text-center"><button
type="submit">Send Message</button></div>
                            </form>
                        </div>

                    </div>

                </div>
            </section>
            <!-- End Contact Section -->

    </main>
    <!-- End #main -->

    <!-- ======= Footer ======= -->
    <footer id="footer">



        <div class="footer-top">
            <div class="container">









            </div>
        </div>


        <div class="container footer-bottom clearfix">
            <div class="copyright">
                &copy; Copyright <strong><span>Arsha</span></strong>. All
Rights Reserved
            </div>
            <div class="credits">
                <!-- All the links in the footer should remain intact. -->
                <!-- You can delete the links only if you purchased the pro
version. -->
                <!-- Licensing information: https://bootstrapmade.com/license/
-->
```

```
                <!-- Purchase the pro version with working PHP/AJAX contact
form: https://bootstrapmade.com/arsha-free-bootstrap-html-template-corporate/
-->
                Designed by <a href="https://bootstrapmade.com/">Indra
Prakash</a>
                <div class="social-links mt-3">
                    <a href="#" class="twitter"><i class="bx bxl-
twitter"></i></a>
                    <a href="#" class="facebook"><i class="bx bxl-
facebook"></i></a>
                    <a href="#" class="instagram"><i class="bx bxl-
instagram"></i></a>
                    <a href="#" class="google-plus"><i class="bx bxl-
skype"></i></a>
                    <a href="#" class="linkedin"><i class="bx bxl-
linkedin"></i></a>
                </div>
            </div>
        </div>
    </footer>image.png
    <!-- End Footer -->

    <div id="preloader"></div>
    <a href="#" class="back-to-top d-flex align-items-center justify-content-
center"><i class="bi bi-arrow-up-short"></i></a>

    <!-- Vendor JS Files -->
    <script src="assets/vendor/aos/aos.js"></script>
    <script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
    <script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
    <script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
    <script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
    <script src="assets/vendor/waypoints/noframework.waypoints.js"></script>
    <script src="assets/vendor/php-email-form/validate.js"></script>

    <!-- Template Main JS File -->
    <script src="assets/js/main.js"></script>

</body>

</html>
```