

Dr. ZAKIR HUSAIN COLLEGE, ILAYANGUDI

DEPARTMENT OF PHYSICS

PROJECT REPORT

ON

DATA ANALYTICS

UNEARTHING THE ENVIRONMENTAL IMPACT OF HUMAN ACTIVITY

A GLOBAL CO2 EMISSION ANALYSIS

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INTRODUCTION

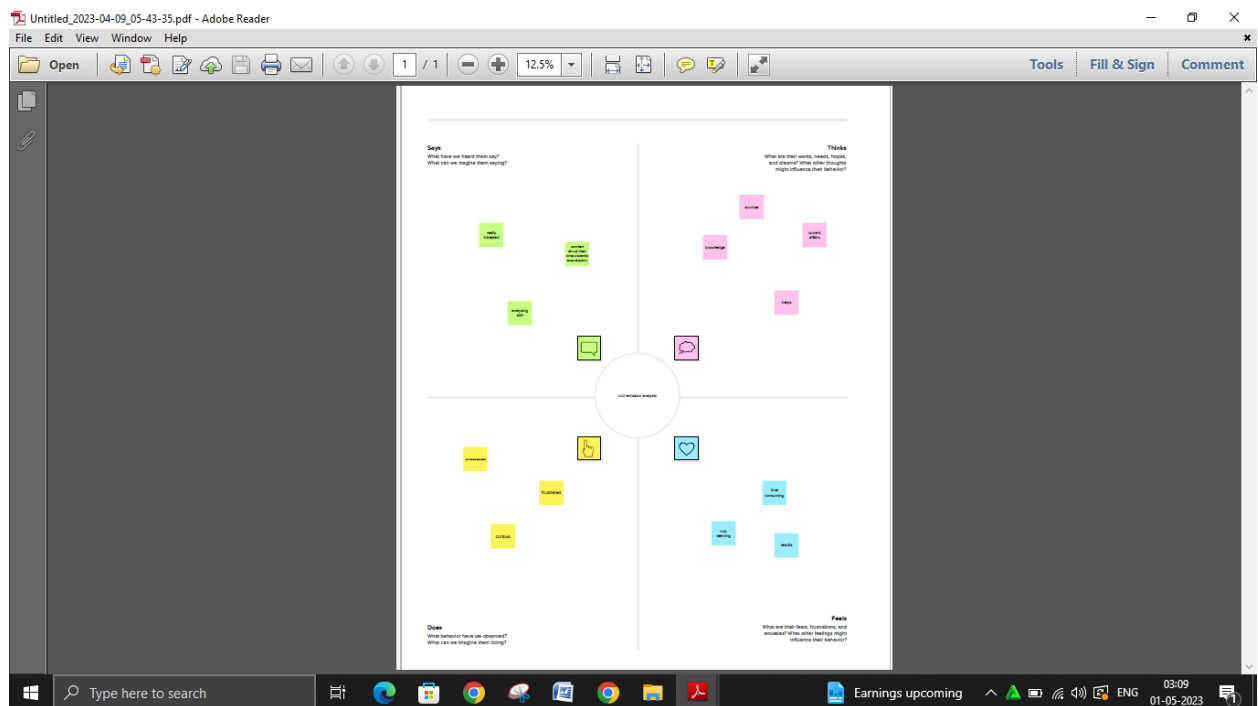
OVERVIEW AND PURPOSE

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.

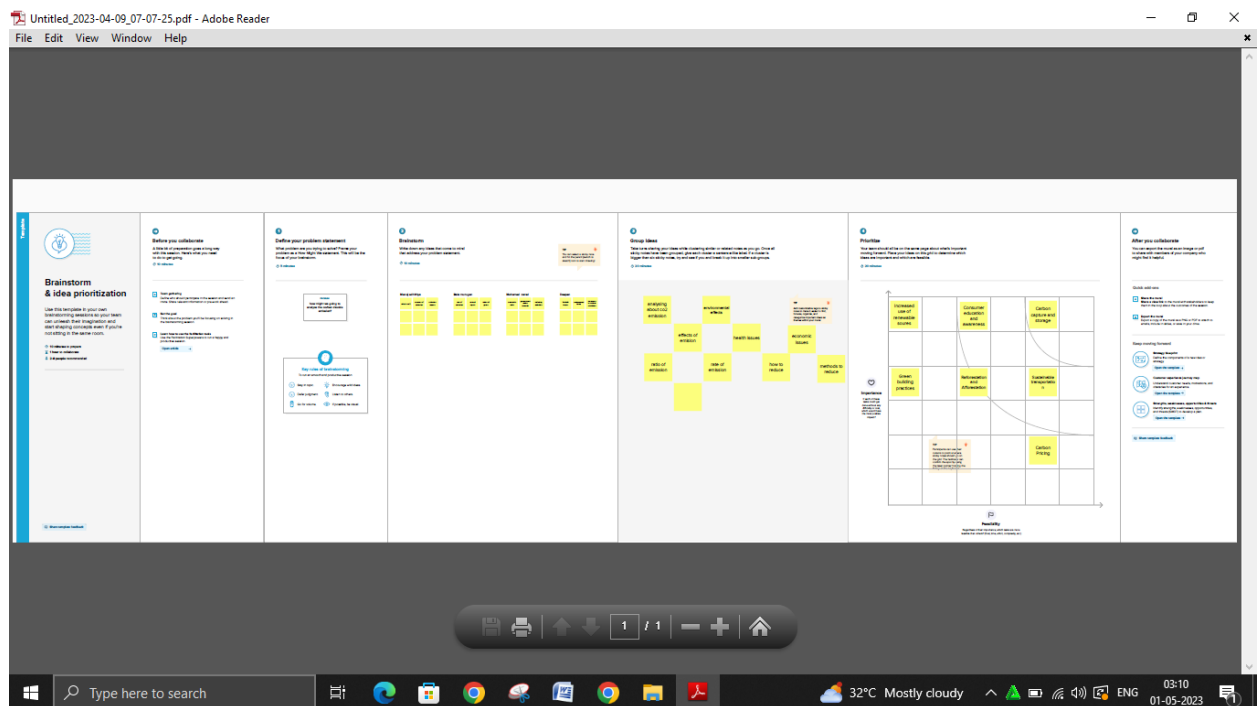
Analysing Global Co2 Emission across countries from 1975 to 2020. This dataset contains a record of Co2 Emission by each Country and Region of Earth, here we are going to analyse and visualise Country wise, Region wise and Overall Co2 Emission on Earth.

PROBLEM DESIGNING AND DESIGN THINKING

EMPATHY MAP

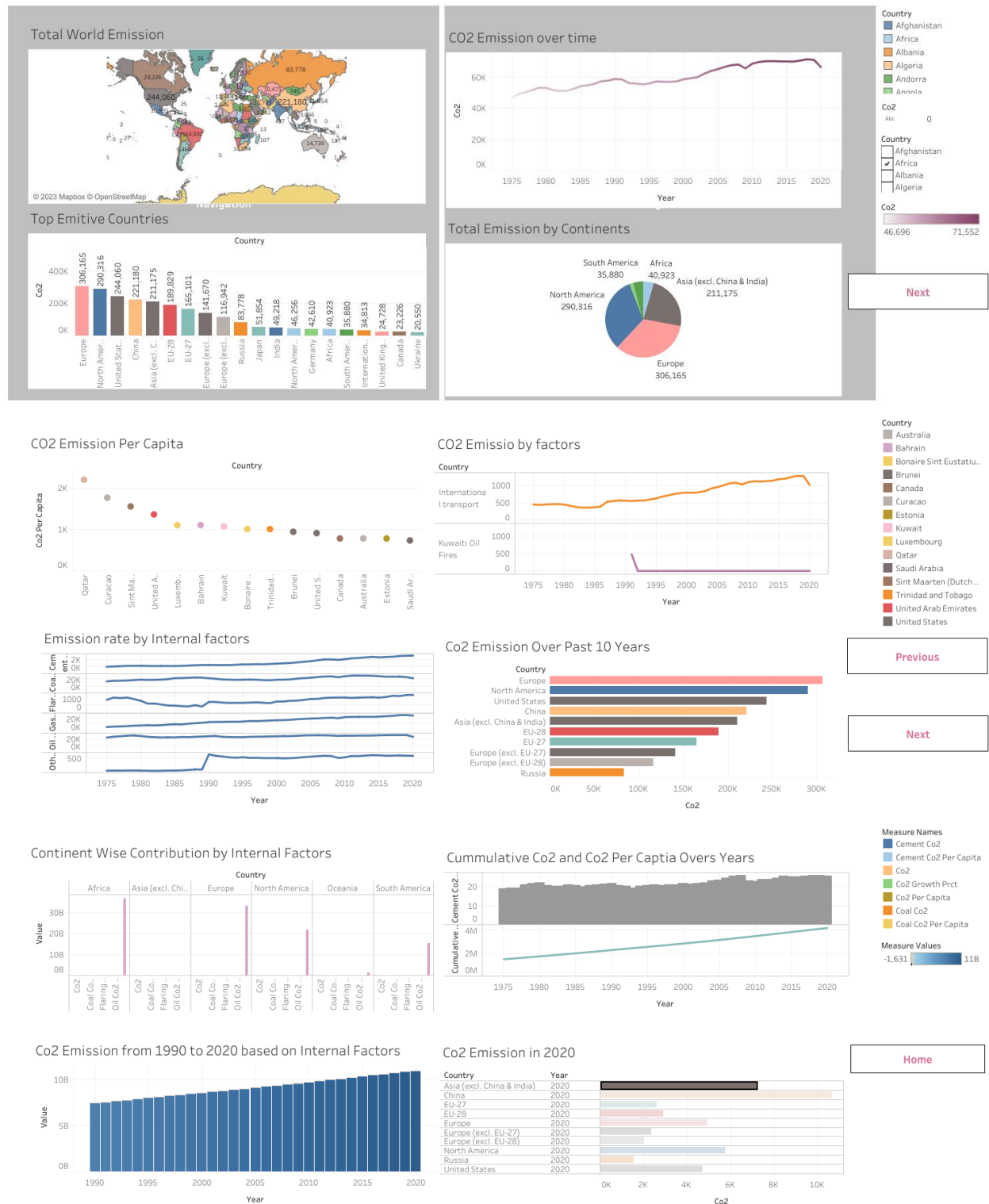


BRAINSTORMING AND IDEALISATION



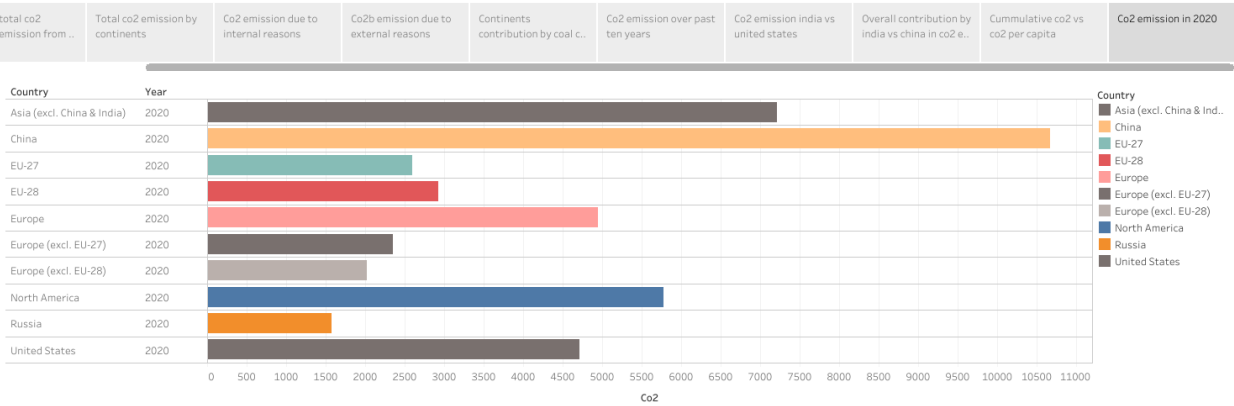
RESULT

DASHBOARD

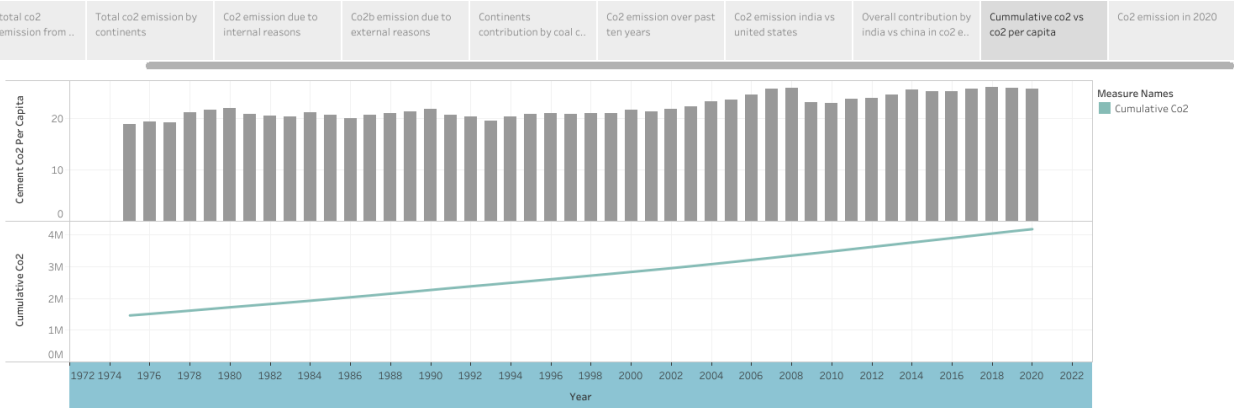


STORY

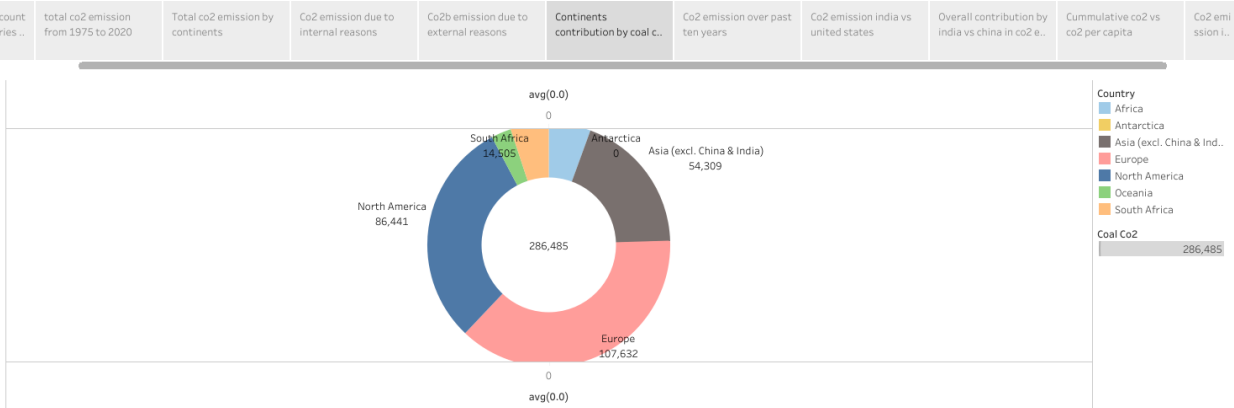
Co2 Emission Story



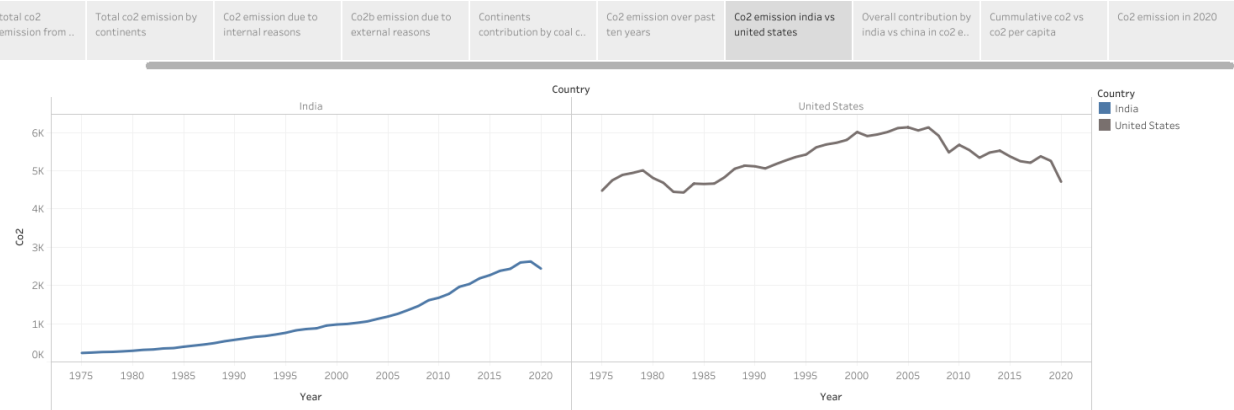
Co2 Emission Story



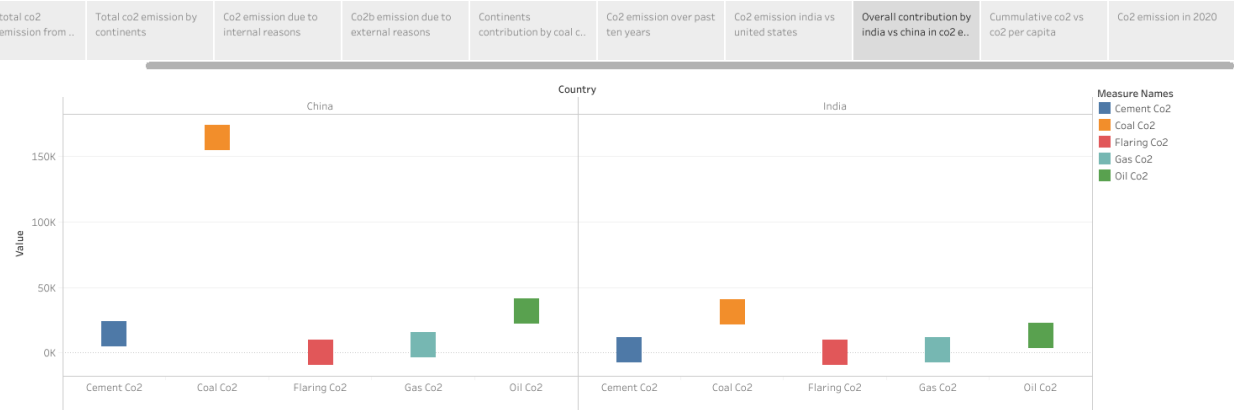
Co2 Emission Story



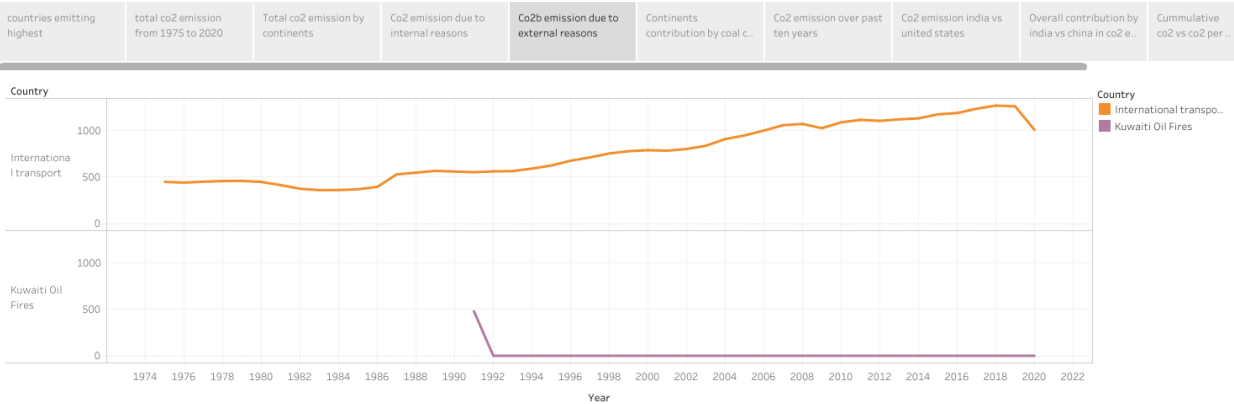
Co2 Emission Story



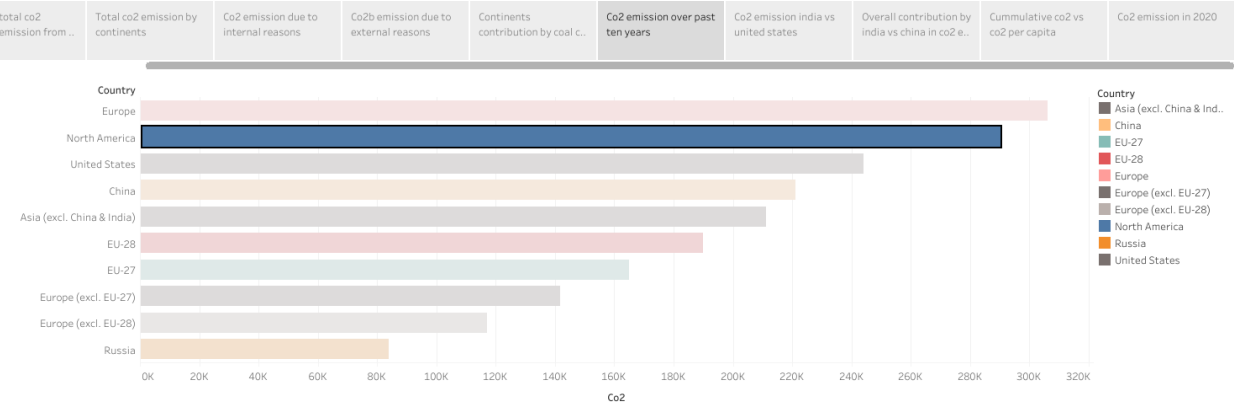
Co2 Emission Story



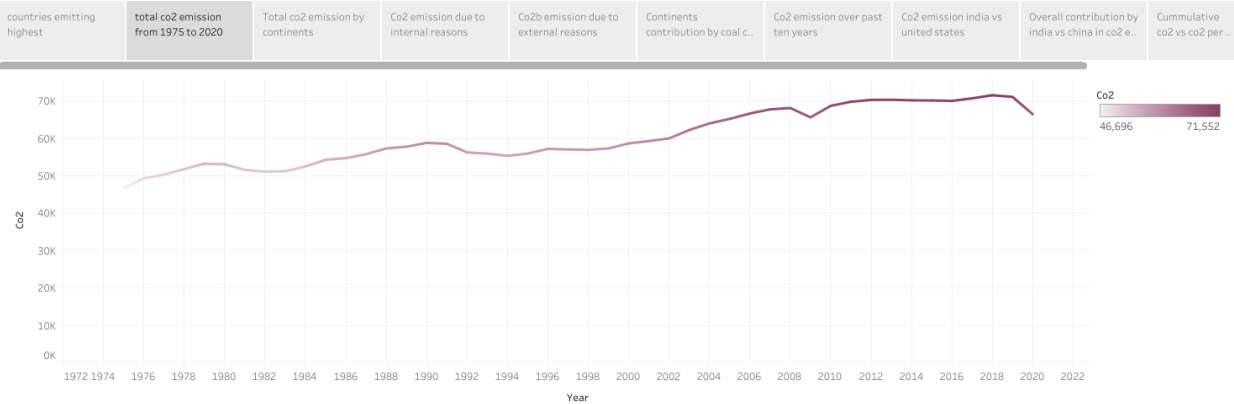
Co2 Emission Story



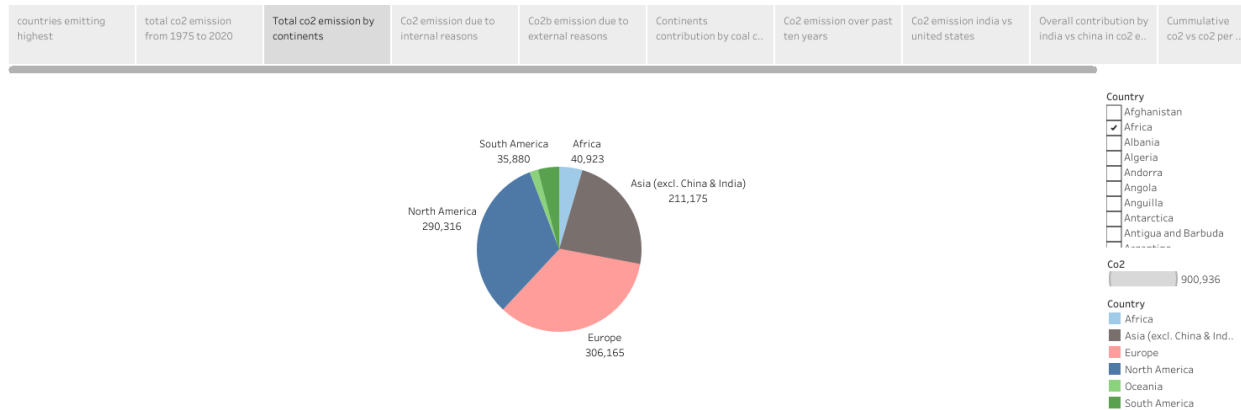
Co2 Emission Story



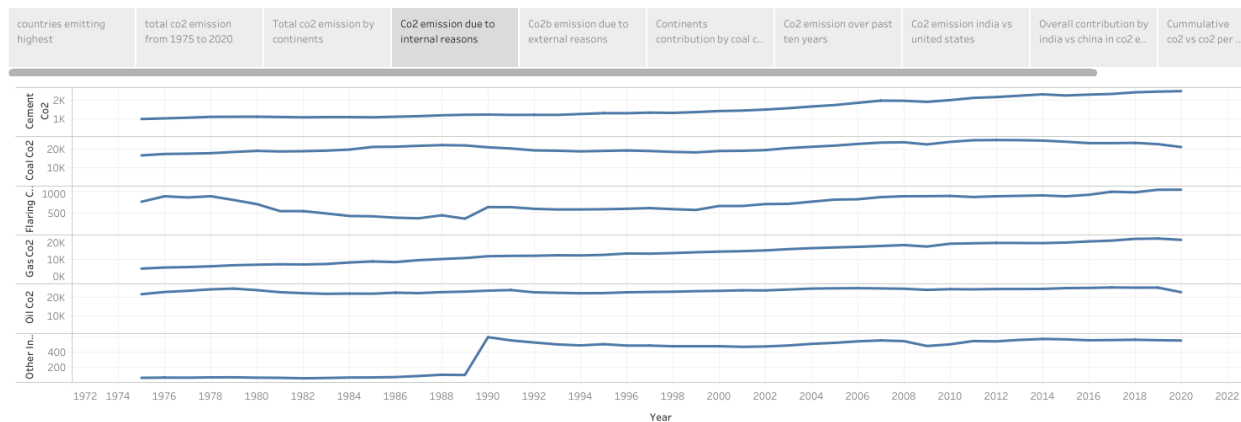
Co2 Emission Story



Co2 Emission Story



Co2 Emission Story



APPLICATION

New opportunities to use carbon dioxide (CO₂) in the development of products and services are capturing the attention of governments, industry and the investment community interested in mitigating climate change as well as in other factors, including technology leadership and supporting a circular economy.

ADVANTAGES

This analysis considers the near-term market potential for five key categories of CO₂-derived products and services: fuels, chemicals, building materials from minerals, building materials from waste, and CO₂ use to enhance the yields of

biological processes. All five categories could individually be scaled-up to a market size of at least 10 MtCO₂/yr – almost as much as the current CO₂ demand for food and beverages – but most face commercial and regulatory barriers. CO₂ use can support climate goals where the application is scalable, uses low-carbon energy and displaces a product with higher life-cycle emissions. Some CO₂-derived products also involve permanent carbon retention, in particular building materials.

DISADVANTAGES

A better understanding and improved methodology to quantify the life-cycle climate benefits of CO₂ use applications are needed. The market for CO₂ use is expected to remain relatively small in the short term, but early opportunities could be developed, especially those related to building materials.

FUTURE SCOPE

Public procurement of low-carbon products can help to create an early market for CO₂-derived products and assist in the development of technical standards. In the long term, CO₂ sourced from biomass or the air could play a key role in a net-zero CO₂ emission economy, including as a carbon source for aviation fuels and chemicals.

CONCLUSION

Although most conversion pathways are highly energy-intensive and still in their infancy, they are attracting growing interest and support from governments, industry and investors. Companies such as CarbonCure and Solidia, which use CO₂ to manufacture concrete, have recently attracted investment from Breakthrough Energy Ventures and OGCI Climate Investments, respectively. In

North America, the NRG COSIA Carbon XPrize is supporting the development of novel CO₂ use opportunities with a USD 20 million global competition . Governments in Canada, Japan, the United Kingdom and the United States as well as the European Commission are also providing significant RD&D support for CO₂ use.

APPENDIX

SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">

  <title>Global Co2 Emission Analysis</title>
  <meta content="" name="description">
  <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:300,300i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">

  <!-- Vendor CSS Files -->
  <link href="assets/vendor/aos/aos.css" rel="stylesheet">
  <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
  <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css"
rel="stylesheet">
  <link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
  <link href="assets/vendor/glightbox/css/glightbox.min.css" 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"> </h1>

        <!-- Uncomment below if you prefer to use an image logo -->
        <!-- <a href="index.html" class="logo me-auto"></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=jDDapla0z7Q" 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">
                
            </div>
        </div>
    </div>

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

<main id="main">

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

    <!-- End Clients 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://public.tableau.com/static/images/Co/Co2dash&
#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://public.tableau.com/static/images/Co&#47;Co2das
h&#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://public.tableau.com/static/images/G4/G4Q8N94F
4/1_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/G4Q8N94F4' />
                <param name='toolbar' value='yes' />
                <param name='static_image'
value='https://public.tableau.com/static/images/G4/G4Q8N9
4F4/1.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">
                    
                    <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">
        

        <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">
        

        <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">
        

        <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">
            
            <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">
            
            <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">
            
        </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">
            
        </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">
            

        </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">
            

        </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, Andhra Pradesh,  
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>
<!-- 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><div class='tableauPlaceholder' id='viz1682579533204' style='position:
relative'><noscript><a href='#'><img alt='Dashboard 1 '
src='https://public.tableau.com/static/images/Co/Co2demod
ash_16821001302350/Dashboard1/1_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='Co2demodash_16821001302350&#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;Co2dem
odash_16821001302350&#47;Dashboard1&#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('viz1682579533204');
var vizElement =
divElement.getElementsByTagName('object')[0];
if (
divElement.offsetWidth > 800 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.7
5)+'px';} else if ( divElement.offsetWidth > 500 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.7
5)+'px';} else { vizElement.style.width='100%';vizElement.style.height='1677px';}
var scriptElement = document.createElement('script');
scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
vizElement.parentNode.insertBefore(scriptElement, vizElement);
</script>
<div class='tableauPlaceholder' id='viz1682579633504' style='position:
relative'><noscript><a href='#'><img alt='Co2 Emission Story '
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Co&#47;Co2demos
tory_16821004170480&#47;Co2EmissionStory&#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='Co2demostory_16821004170480&#47;Co2EmissionStory' /><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;Co2dem
ostory_16821004170480&#47;Co2EmissionStory&#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('viz1682579633504');
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>
```

