

PLUGGING INTO THE FUTURE: AN EXPLORATION OF ELECTRICITY CONSUMPTION PATTERN

COLLEGE

**GOVINDAMMAL ADITANAR COLLEGE FOR WOMAN,
TIRUCHENDUR.**

TEAM MEMBERS

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SUBA S

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1. INTRODUCTION

1.1 OVERVIEW

- India is the world's third largest producer and third largest consumer of electricity. The national electric grid in India has an installed capacity of 370.106GW as of 31st March 2020. The per capita electricity consumption is low compared to most other countries despite India having a low electricity tariff. In recent COVID 19 situation, when everyone has been under lockdown for the months of March to June, the impacts of the lockdown on economic activities have been faced by every sector in a positive or negative way.

- The dataset is exhaustive in its demonstration of energy consumption state wise
- Analysing Electricity Consumption in India from Jan 2019 till 5th December 2020. This dataset contains the record of electricity consumption in India. Here we have analysed state wise, region wise and overall electricity consumption in India.

1.2 PURPOSE

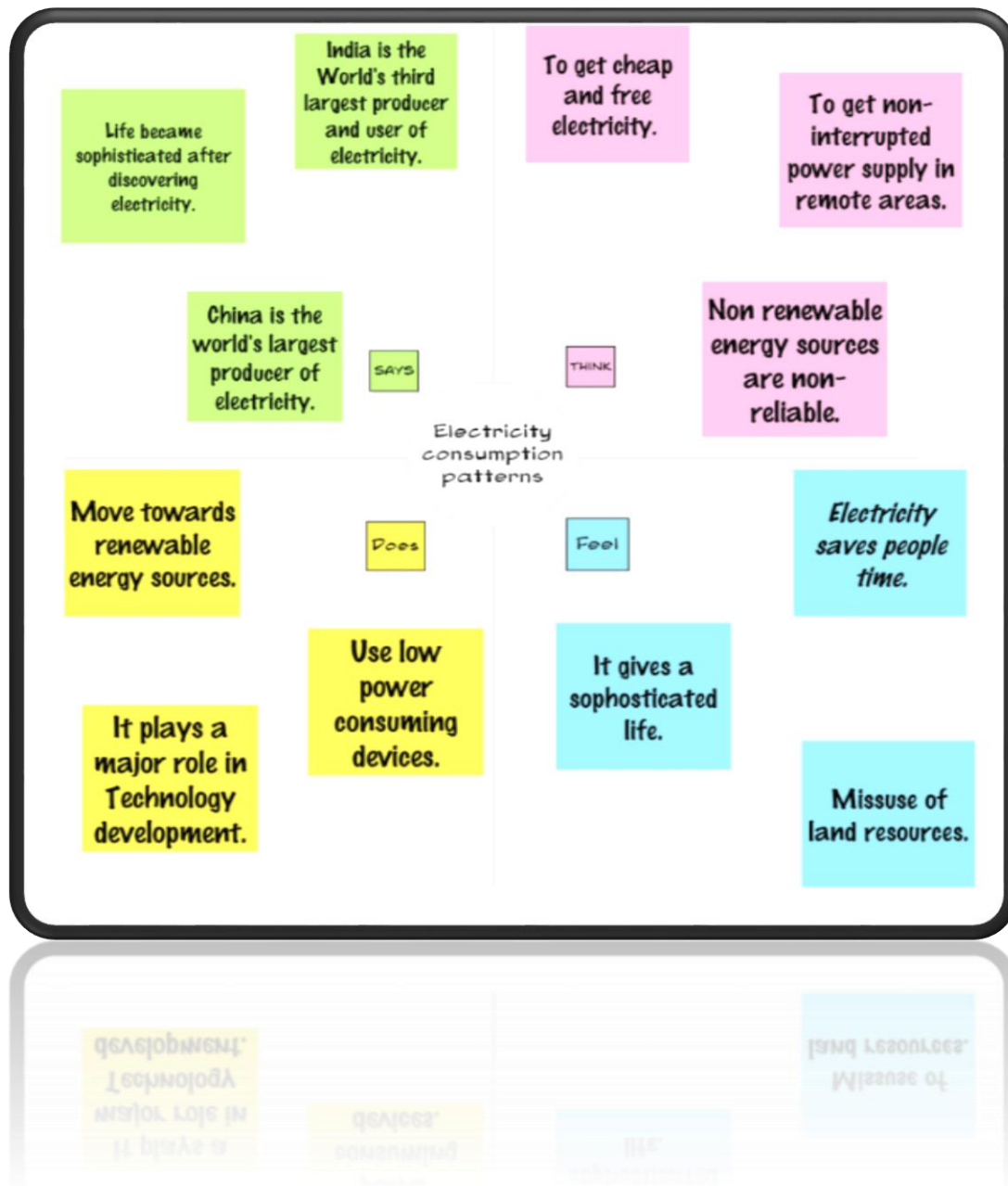
- By providing access to electricity, the analysis can help to improve quality of life for people living in areas without access to electricity.
- By understanding consumption pattern and trends, the analysis can help business identify market opportunities and develop strategies to meet the growing demand for electricity.
- This information helps to develop policies and programs to promote energy efficiency.

PROBLEM DEFINITION AND DESIGN THINKING

We can define problem solving as a process of understanding the problem, designing an algorithm for it and finally implementing the solution to it. Therefore, we can say that a successful problem solving process depends on the following factors. Understanding the problem and defining it precisely.

2.1 Empathy Map

We created the Empathy map to define and understand the problem. Our empathy map is shown below.

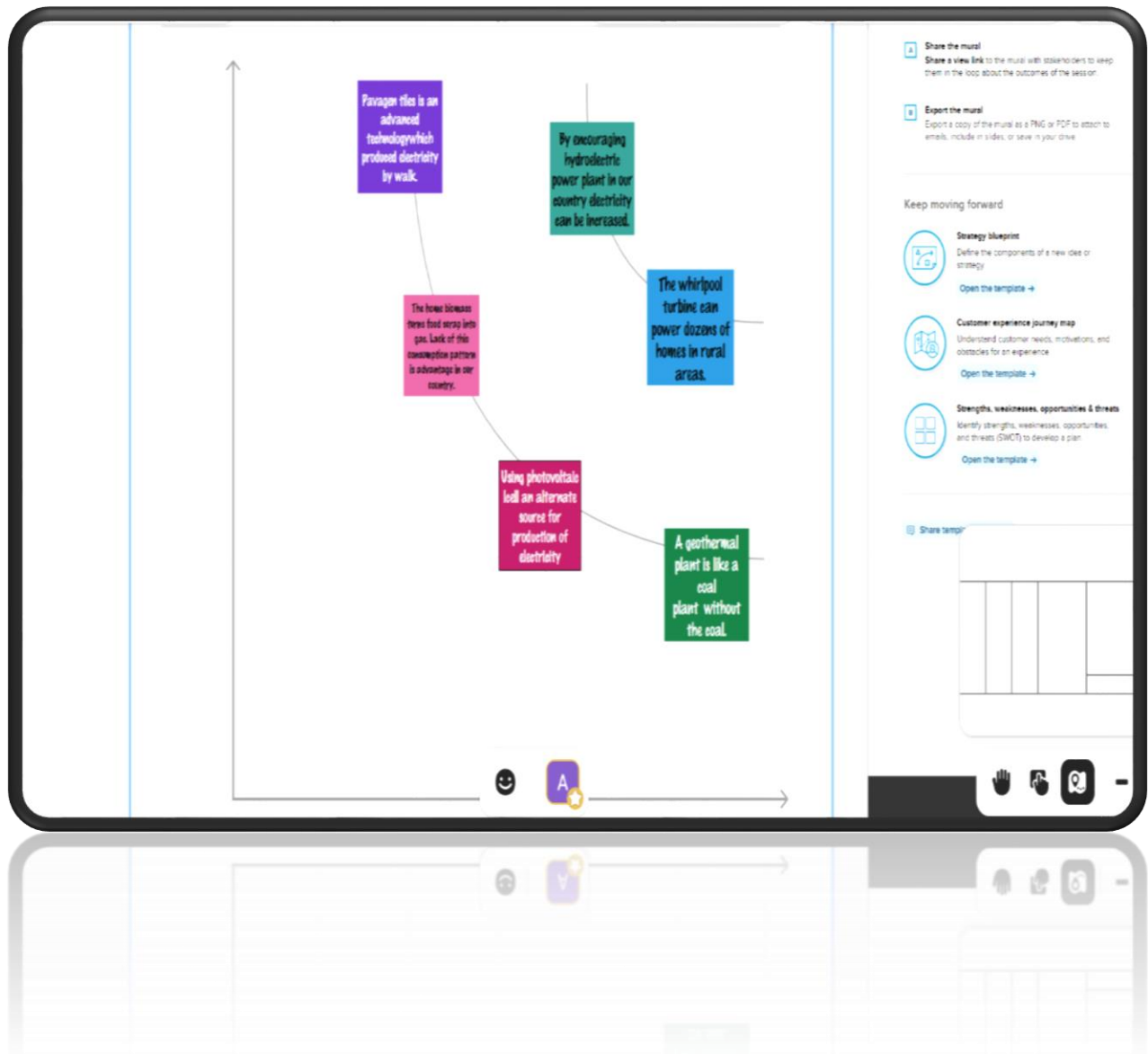


2.2 Ideation and Brainstorming

We collected various ideas from several persons to solve this problem. The survey is mentioned below.

Floating solar plant generate more electricity than traditional solar plant.	Having a battery system integrated with a solar panel will reduce the dependency on coal.	The whirlpool turbine can power dozens of homes in rural areas.	Buoyant Airborne Turbine - A huge blimp with wind turbine in the middle is secured to ground.
Using photovoltaic cell as an alternate source for production of electricity	A geothermal plant is like a coal plant without the coal.	By encouraging hydroelectric power plant in our country electricity can be increased.	Replacing old devices by energy efficient solutions such as replacing traditional light bulbs.
Person 3		Person 4	
The home biomass turns food scrap into gas. Lack of this consumption pattern is advantage in our country.	Converting the blowaste into Gobar gas.	Oyster a type of tidal wave energy source implemented in the sea with power plant.	Pavegan tiles is an advanced technology which produce electricity by every footstep we walk.
By monitoring the amount of electricity can reduce the wastage of electricity.	Improving and modernising infrastructure.	The eco capsule is a micro housing pod which is an advanced technology in electricity production for a single house.	Planting wind mills and producing electricity.
By monitoring the amount of electricity can reduce the wastage of electricity.	Improving and modernising infrastructure.	The eco capsule is a micro housing pod which is an advanced technology in electricity production for a single house.	Planting wind mills and producing electricity.

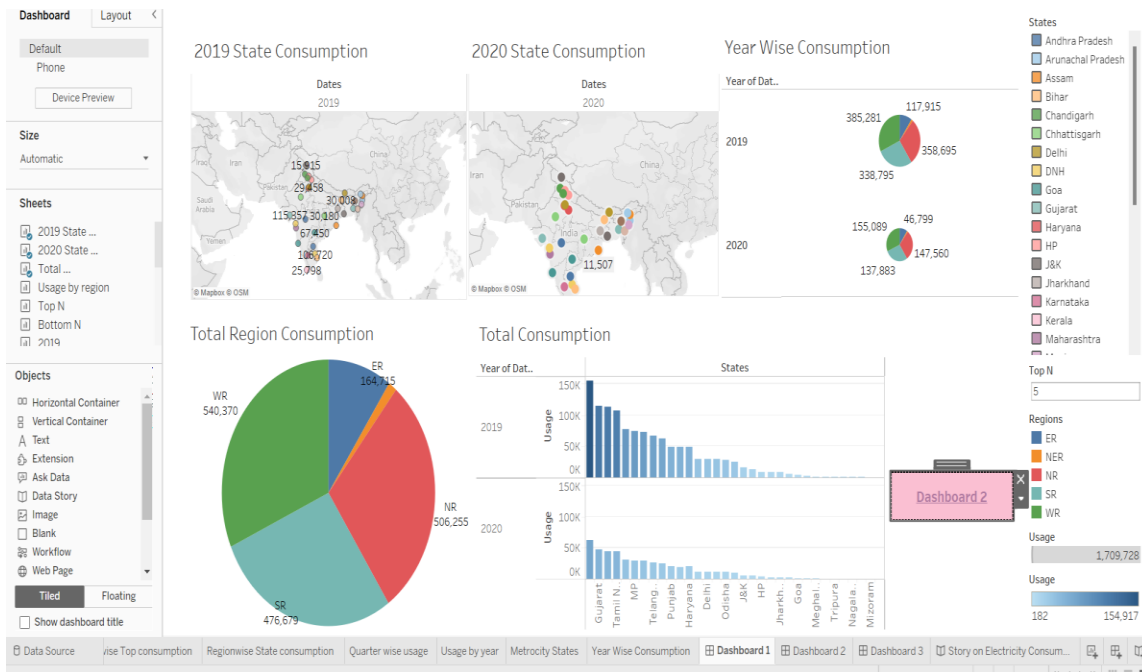
In



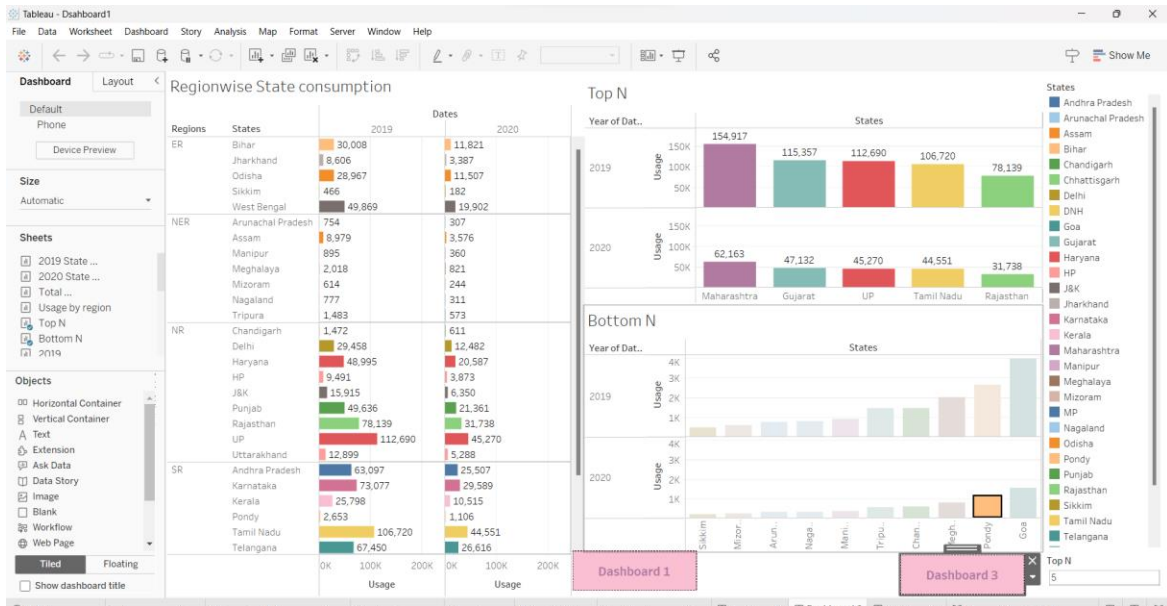
RESULT

Final findings of the project along with screenshots are

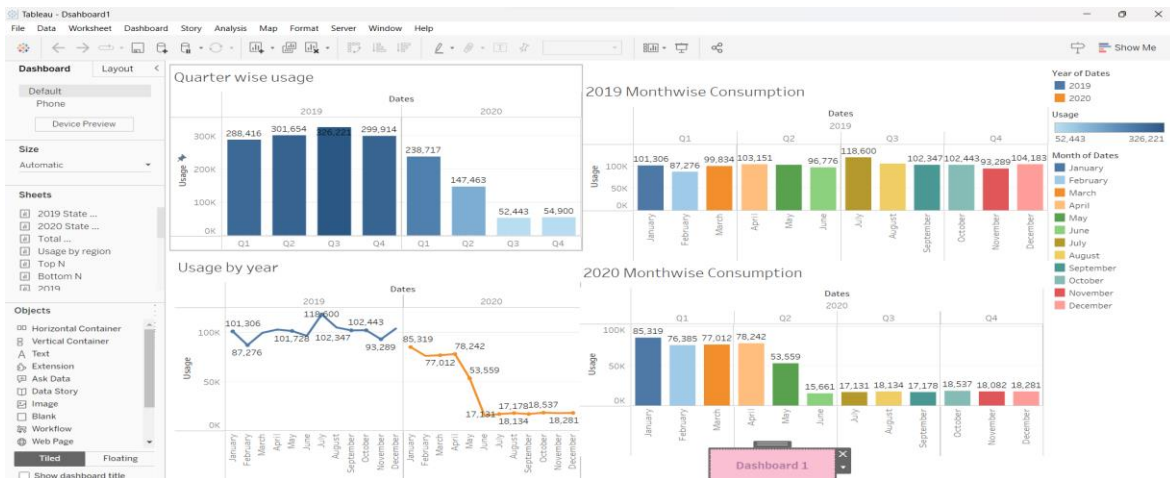
DASHBOARD 1



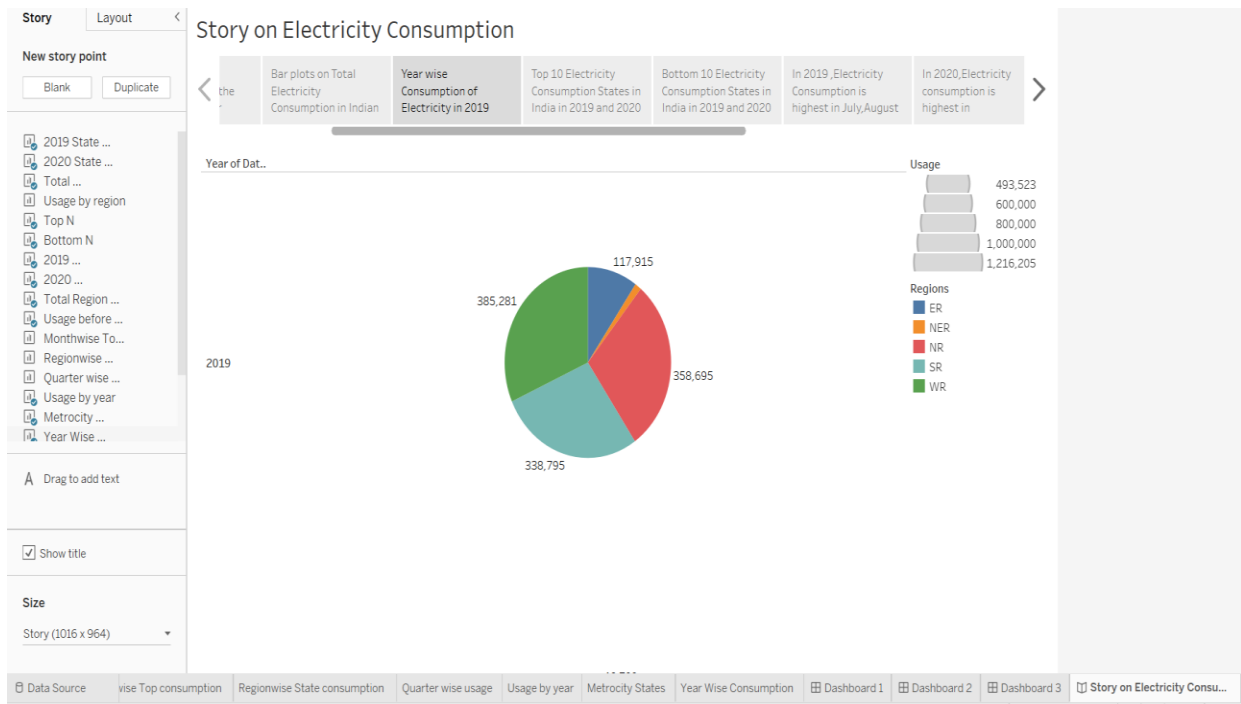
DASHBOARD 2



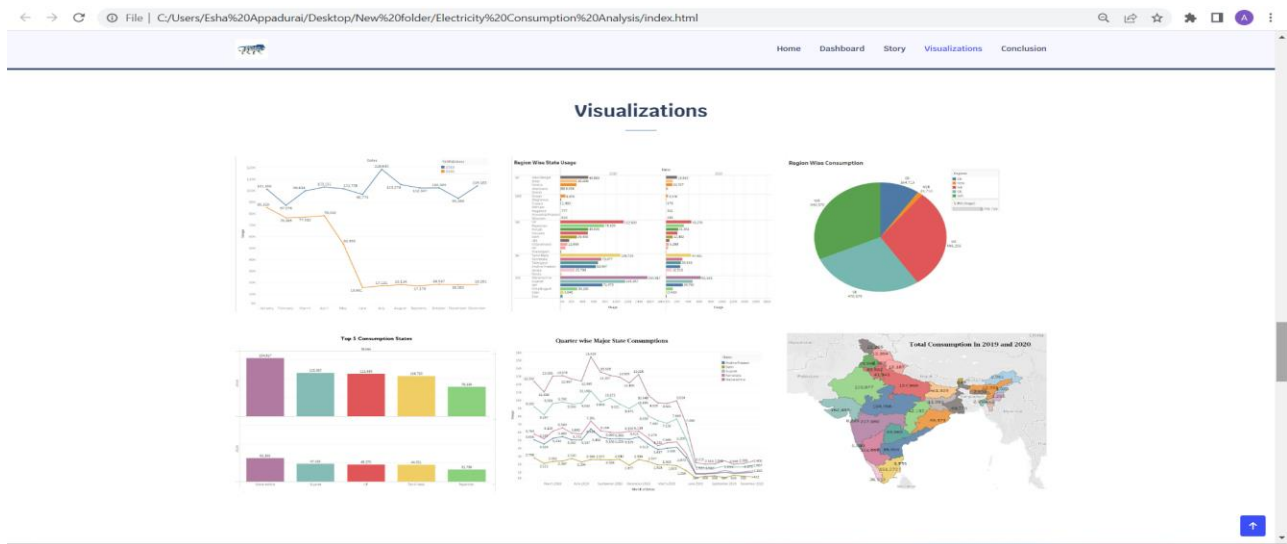
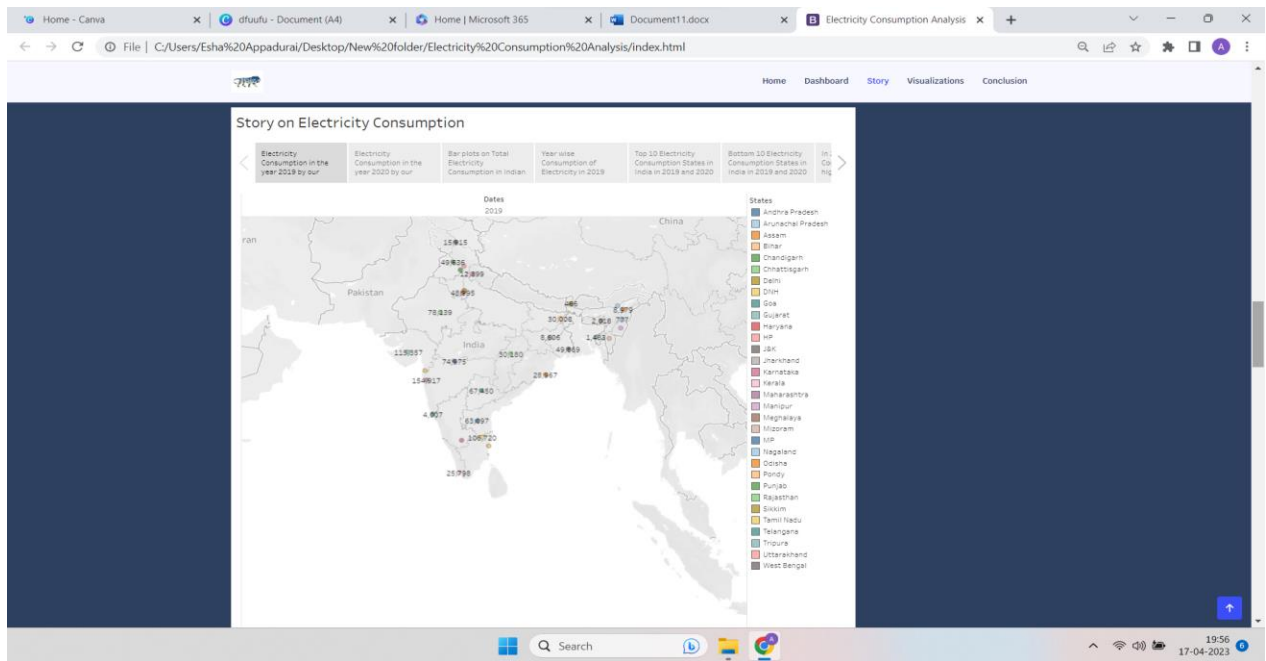
DASHBOARD 3

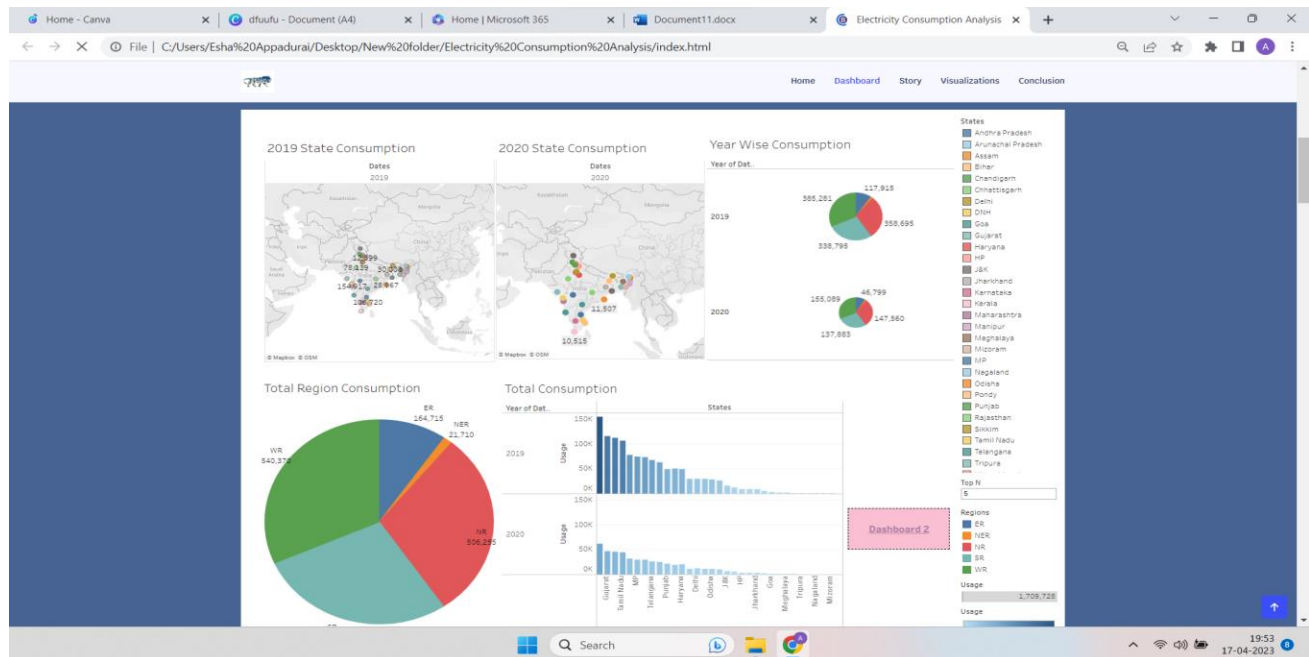


STORY



WEB INTEGRATION





Advantages and Disadvantages of Electricity Consumption

Advantages

- It is a clean ,safe, cheap and convenient source of energy.
- Lower maintenance cost.
- More efficient.
- We all know that it can be setup in many sizes.
- It doesn't require as many employees
- Reduces greenhouse emission.
- Hydro electric station are inexpensive to operate.
- It is renewable.
- Hydroelectricity produce no gas emission or waste.

Disadvantages

- More expensive than gasoline.
- Loss of fish species.
- Dependent on precipitation.
- More powerplants and more pollution.
- Cost of Construction is high.
- Change in river or stream quality.
- Drought can affect power production.

- **Application of electricity**

- The lights, lifts, AC, Coffee machines, ID card reader, biometric scanners and everything else require electricity.
- Things which were running on fossil fuels, such as cars and bikes are now made to run on electricity which will be more convenient in future.
- Starting from toasters to refrigerators, microwaves, washing machines, dishwashers, electrical chimneys and many more appliances utilise electricity.
- For the production of various materials, the factory uses heavy machinery which require electricity to keep them charged for lifting heavy metals.
- Listening to music on mp3 players.
- Watching television.
- Playing movies on DVD, VCD's or VCR's runs on electricity.
- Surgical operations.
- Without electricity, the operation can prove fatal.

Conclusion

- Energy Conservation is the effort made by us to reduce the consumption of energy by using less amount of energy service (or) using renewable energy.
- Renewable will be the primary sources of electricity generation much of it from offshore wind farms and solar panels.
- Maharashtra is the highest electricity consuming state in India.
- Sikkim is the lowest consuming state in India.

Future Scope

- Global electricity generation will increase between 123% and 150% by 2050.
- In 2010, global electricity production was 21.5 billion MWh globally.
- Electricity demand growth is set to be particularly strong in developing economies.
- Electricity will largely replace petrol and diesel as a fuel for road vehicles.
- It will also replace the natural gas and oil we burn to heat our homes and run our industries.

APPENDIX

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<!-- =====
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* Template Name: Bikin - v4.9.1

* Template URL: <https://bootstrapmade.com/bikin-free-simple-landing-page-template/>

* 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-->

<nav id="navbar" class="navbar">

Home

Dashboard

Story

Visualizations

Conclusion

<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 d-flex flex-column align-items-center justify-content-center" data-aos="fade-up">

<h1>Analysis on Electricity Consumption In India</h1>

<h2>India is the third largest producer of electricity in the world. During the fiscal year (FY) 2019–20, the total electricity generation in the country was 1,598 TWh, of which 1,383.5 TWh generated by utilities. The gross electricity consumption

per capita in FY2019 was 1,208 kWh. </h2>

Get Started

</div>

</section>

<!-- End Hero -->

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<section id="about" class="about">

<div class="container">

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```

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value='en-US' /></object></div> <script type='text/javascript'> var divElement =
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if ( divElement.offsetWidth > 800 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.75)+'px';} else if (
divElement.offsetWidth > 500 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.75)+'px';} else {
vizElement.style.width='100%';vizElement.style.height='1877px';} var scriptElement =
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vizElement.parentNode.insertBefore(scriptElement, vizElement); </script>

<a href='#'><img alt='Dashboard 1 '
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</script>
<!-- ===== About Section ===== -->

```

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```

```
<div class="content">
```

```
<h3>History</h3>
```

```
<p> Indiabegan using grid management on a regional basis in the 1960s. Individual State grids were interconnected to form 5 regional grids covering mainland India, the Northern, Eastern, Western, North Eastern and Southern Grids.
```

```
These regional links were established to enable transmission of surplus electricity between states in each region.
```

```
</p>
```

```
<p>The first interconnection of regional grids was established in October 1991 when the North Eastern and Eastern grids were interconnected. The Western Grid was interconnected with these grids in March 2003. The Northern grid
```


was also interconnected in August 2006, forming a Central Grid and operating at one frequency. The Southern Grid, was synchronously interconnected to the Central Grid on 31 December 2013 with the commissioning of the 765

kV Raichur-Solapur transmission line, establishing the National Grid

[illegible]

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class="img-fluid" alt="">>

</div>

<div class="col-lg-2 col-md-4 col-6 d-flex align-items-center justify-content-center">

>

</div>

<div class="col-lg-2 col-md-4 col-6 d-flex align-items-center justify-content-center">

>

</div>

<div class="col-lg-2 col-md-4 col-6 d-flex align-items-center justify-content-center">

>

</div>

<div class="col-lg-2 col-md-4 col-6 d-flex align-items-center justify-content-center">


```

```
<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">
```

```
<i class="bx bx-plus"></i>
```

```
</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">
```

```
<i class="bx bx-plus"></i>
```

```
</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">
```

```
<i class="bx bx-plus"></i>
```

```
</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 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/p6.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/p4.jpg" data-gallery="portfolioGallery" class="portfolio-lightbox" title="Web 3"><i class="bx bx-plus"></i></a>`

&lt;/div&gt;

&lt;/div&gt;

&lt;/div&gt;

&lt;/div&gt;

&lt;/div&gt;

&lt;/div&gt;

&lt;/section&gt;

&lt;!-- End Portfolio Section --&gt;

&lt;section id="features" class="features" data-aos="fade-up"&gt;

<div class="container">

<div class="section-title">

## Conclusion

&lt;/div&gt;

<div class="row content">

```
<div class="col-md-5" data-aos="fade-right" data-aos-delay="100">
```

```

```

&lt;/div&gt;

<div class="col-md-7 pt-4" data-aos="fade-left" data-aos-delay="100">

### Electricity Consumption Stats.



- ✓ Maharashtra is the Highest Electricity consumption user of India.

- Gujarat is the Second Highest Electricity consumption user of India.**

**Sikkim is the Lowest Electricity Consumption user of India .**

</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>Electricity Consumption before and during Lockdown in India</h3>

<p class="">

Electricity consumption was more in 2019 in month of March-June before Lockdown

</p>

<p>

Electricity Consumption was less in 2020 in month of March-June during the Lockdown

</p>

</div>

</div>

<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>Electricity Consumption in Quarters</h3>

<ul>

<li><i class="bi bi-check"></i> Electricity Consumption in 2019 for Quarter 3 was Highest.</li>

<li><i class="bi bi-check"></i> Electricity Consumption in 2019 for Quarter 1 was Lowest.</li>

<li><i class="bi bi-check"></i> Electricity Consumption in 2020 for Quarter 3 was Lowest.</li>

<li><i class="bi bi-check"></i> Electricity Consumption in 2020 for Quarter 1 was Highest.</li>

</ul>

</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>Electricity Consumption in Regions</h3>

<ul>

<li><i class="bi bi-check"></i> Total Electricity consumption in Western Region is Highest.</li>

<li><i class="bi bi-check"></i> Total Electricity consumption in North Eastern Region is Lowest.</li>

<li><i class="bi bi-check"></i> Electricity Consumption in 2020 for Quarter 3 was Lowest.</li>

<li><i class="bi bi-check"></i> Electricity Consumption in 2020 for Quarter 1 was Highest.</li>

</ul>

</div>

</div>

</div>

</section>

<!-- ===== Contact Section ===== -->

<section id="contact" class="contact section-bg">

<div class="container" data-aos="fade-up">

<div class="section-title">

<h2>Contact</h2>

</div>

<div class="row">

<div class="col-lg-6">

<div class="row">

<div class="col-md-12">

<div class="info-box">

<i class="bx bx-map"></i>

<h3>Our Address</h3>

<p>SamrtBridge, Hyderabad,AndhraPradesh, India</p>

</div>

</div>

<div class="col-md-6">

<div class="info-box mt-4">

<i class="bx bx-envelope"></i>

<h3>Email Us</h3>

<p>info@smartbridge.com<br>contact@smartbridge.com</p>

</div>

</div>

<div class="col-md-6">

<div class="info-box mt-4">

<i class="bx bx-phone-call"></i>

<h3>Call Us</h3>

<p>+11 1234 1234<br>+11 4321 4321</p>

</div>

</div>

</div>

</div>

<div class="col-lg-6 mt-4 mt-md-0">

<form action="forms/contact.php" method="post" role="form" class="php-email-form">

```
<div class="row">

<div class="col-md-6 form-group">

<input type="text" name="name" class="form-control" id="name" placeholder="Your Name" required>

</div>

<div class="col-md-6 form-group mt-3 mt-md-0">

<input type="email" class="form-control" name="email" id="email" placeholder="Your Email" required>

</div>

</div>

<div class="form-group mt-3">

<input type="text" class="form-control" name="subject" id="subject" placeholder="Subject" required>

</div>

<div class="form-group mt-3">

<textarea class="form-control" name="message" rows="5" placeholder="Message" 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>

</section>

<!-- End Contact Section -->

</main>

<!-- End #main -->
```

```
<!-- ===== Footer ===== -->
```

```
<footer id="footer">
```

```
<div class="container d-md-flex py-4">
```

```
<div class="me-md-auto text-center text-md-start">
```

```
<div class="copyright">
```

```
© Copyright SmartBridge. 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/bikin-free-simple-landing-page-template/ -->
```

```
Designed by Indra Prakash
```

```
</div>
```

```
</div>
```

```
<div class="social-links text-center text-md-right pt-3 pt-md-0">
```

```
<i class="bx bxl-twitter"></i>
```

```
<i class="bx bxl-facebook"></i>
```

```
<i class="bx bxl-instagram"></i>
```

```
<i class="bx bxl-skype"></i>
```

```
<i class="bx bxl-linkedin"></i>
```

```
</div>
```

```
</div>
```

```
</footer>
```

```
<!-- End Footer -->
```



```
<div id="preloader"></div>

<i class="bi bi-arrow-up-short"></i>

<!-- 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/php-email-form/validate.js"></script>

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

</body>

</html>
```

THANK YOU