PLUGGING INTO FUTURE: AN EXPLORATION OF ELECTRICITY CONSUMPTION PATTERNS

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1. INTRODUCTION:

1.1 OVERVIEW

Electricity has become one of the essential forms of energy to humankind and almost every technology depends on electricity. The quantity of electrical energy consumed has become one of the critical conditions for strategic planning and expansion. The world's primary energy consumption is estimated to increase by 1.6% every year as a result of increasing income, growing population and the industrialization of developing countries. This warrants a call for the efficient management of electrical energy by both domestic and industrial consumers.

This project analyzes the overall consumption of electricity in India in the year 2019 and 2020 and picture's the

trend of electricity consumption in India which is performed using data analytic skills and visualization graphs are constructed using tableau.

The project makes use of the data of electricity consumption in India in the years 2019 and 2020 and a detailed analysis was made. The project also describes the problems faced by the people in electricity consumption according to their perspective and suggestions regarding the solutions and future scope are also discussed in our work.

1.2 PURPOSE

The Purpose of our project is

- To analyze the electricity consumption in the year 2019 and 2020 under the following categories:

1. State wise consumption
2. Region wise usage
3. Month wise Consumption
4. Quarter wise consumption
5. Consumption before and after Lockdown.
6. Consumption in Metropolitan cities.

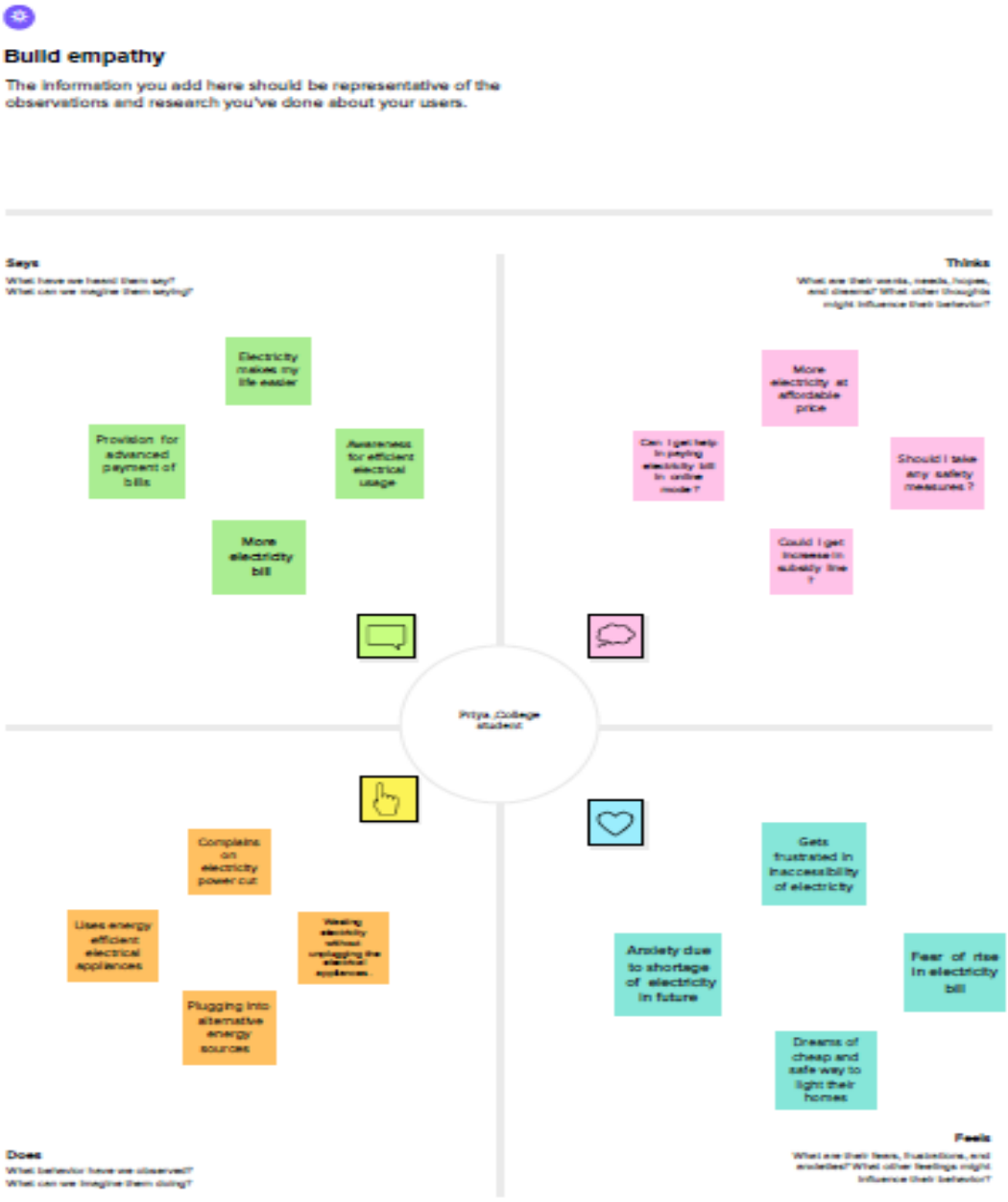
- To identify the most and least electricity consuming states.
- To identify the opportunities for saving electricity.
- To evaluate the impact of COVID-19 on electricity consumption.
- To explore the solutions for reducing electricity consumption without pollution

- To make better planning and management of energy sources in future

2. PROBLEM DEFINITION AND DESIGN THINKING:

2.1 EMPATHY MAP

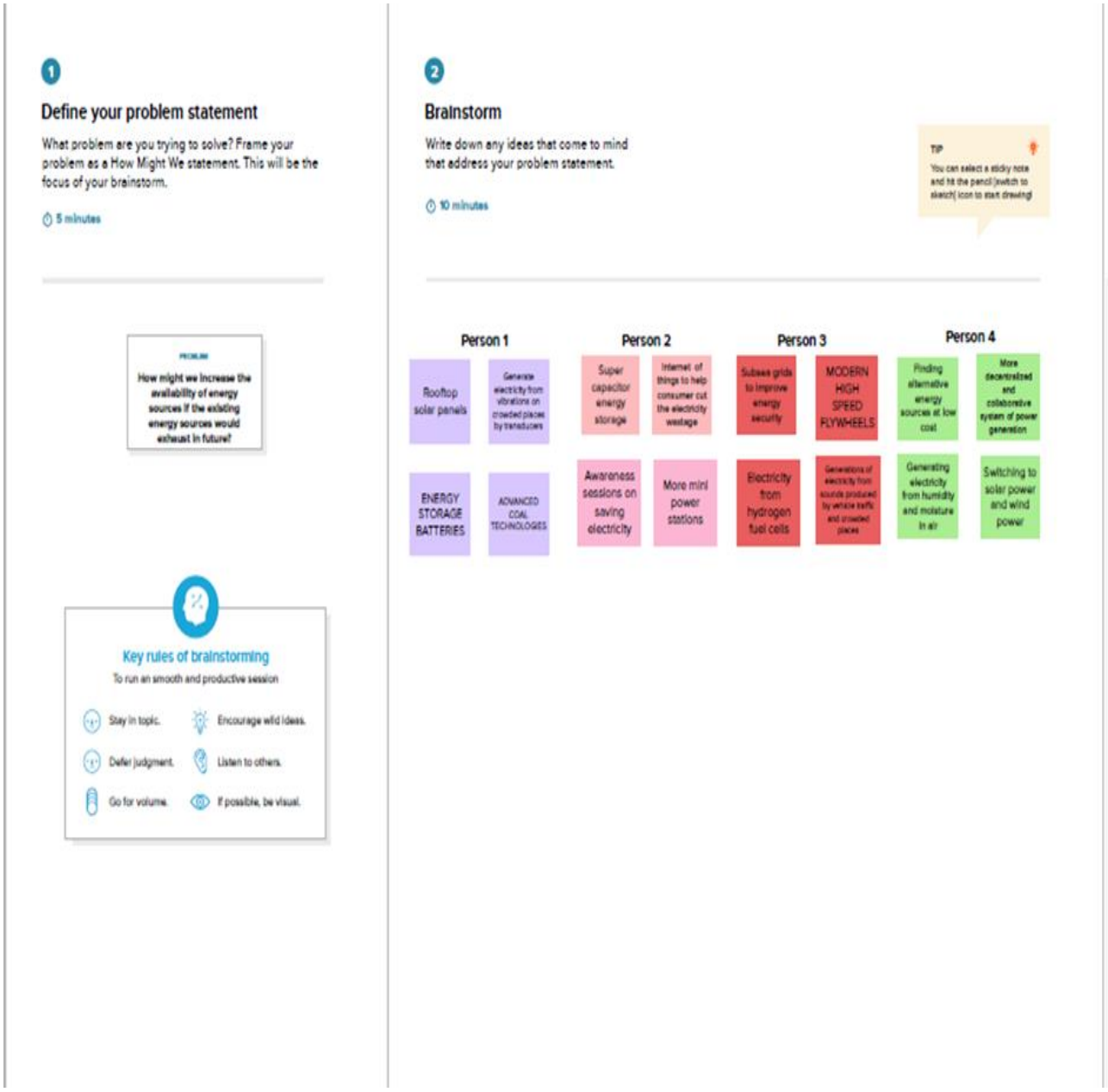
The Empathy Map describes the user's point of view and helps us to understand their hopes, needs, their frustrations and the problems faced by them. It gives an outlook of the problems and the thoughts influencing their behavior.

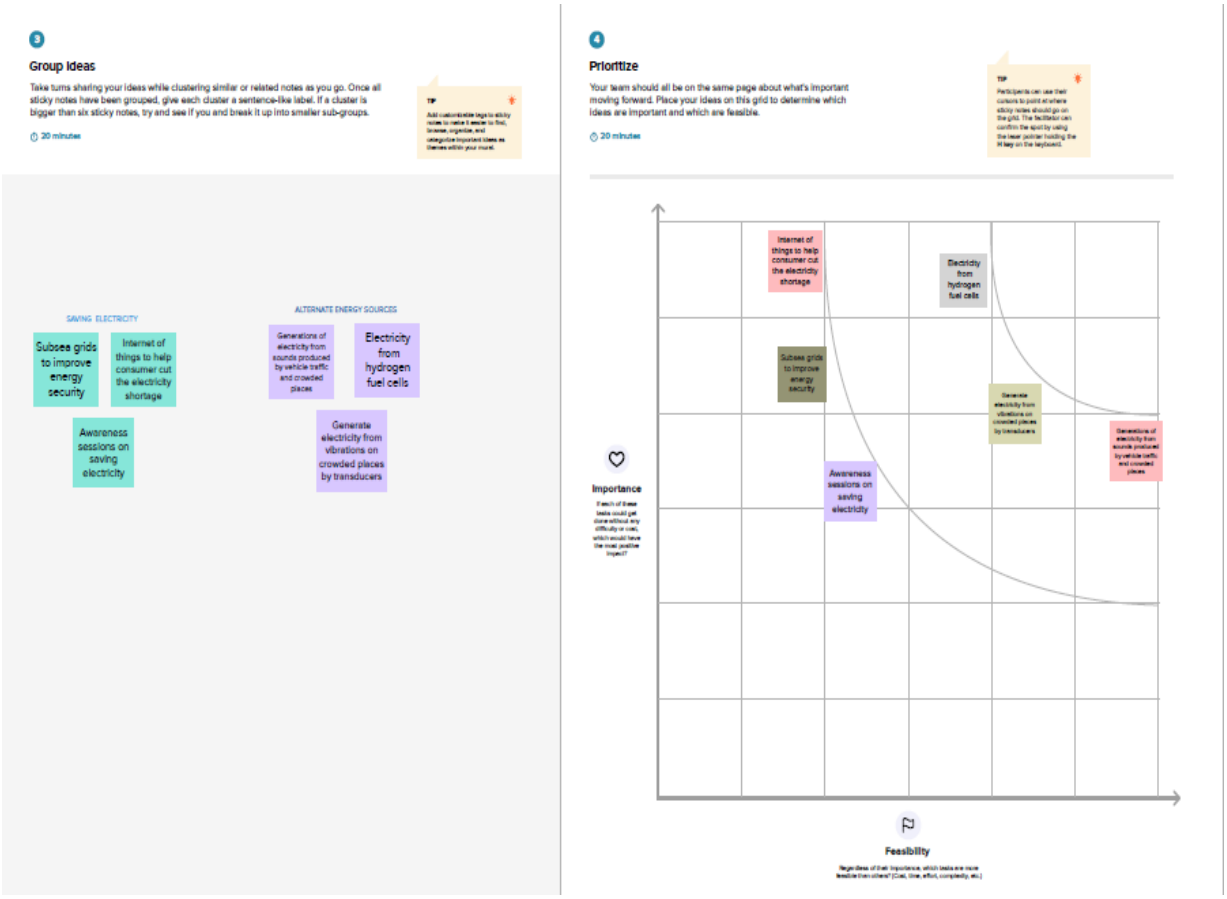


From the Empathy Map, it is observed that the major problems faced by the people regarding electricity are frequent power cuts during summer and unavailability of electricity at low cost.

2.2 IDEATION AND BRAINSTORMING MAP

In Ideation and brainstorming map, the problem was identified and ideas were built for solving it. The ideas were grouped and prioritized.





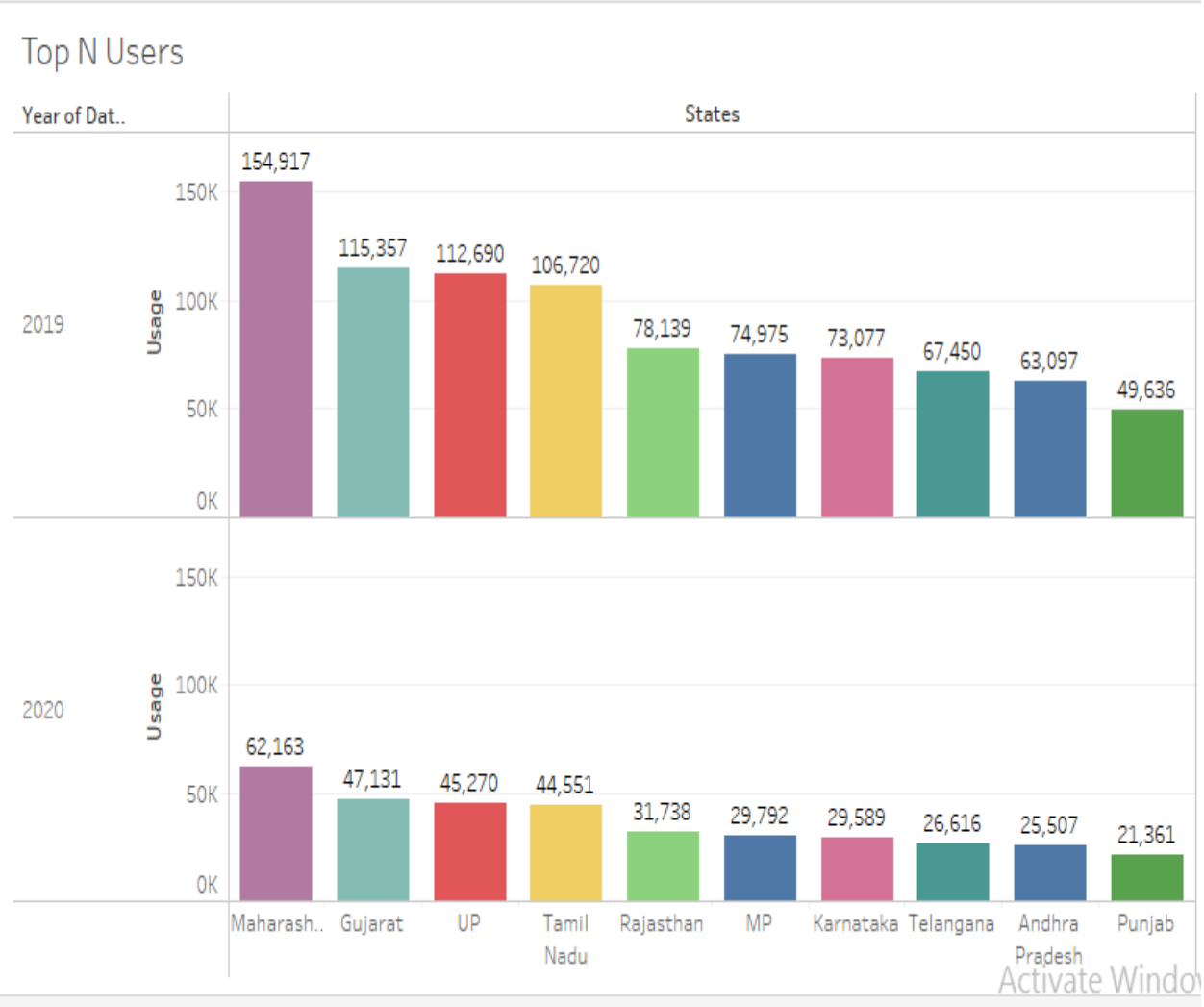
The brainstorming Map shows the need of technical advancements in the production, storage and distribution of electricity. Suggestions were given to use alternate renewable energy sources to solve the problem.

3. RESULT

The findings of the study showed that there is an increase in electricity consumption in the year 2019 as compared to 2020. It also showed the impact of the pandemic in the consumption of electricity.

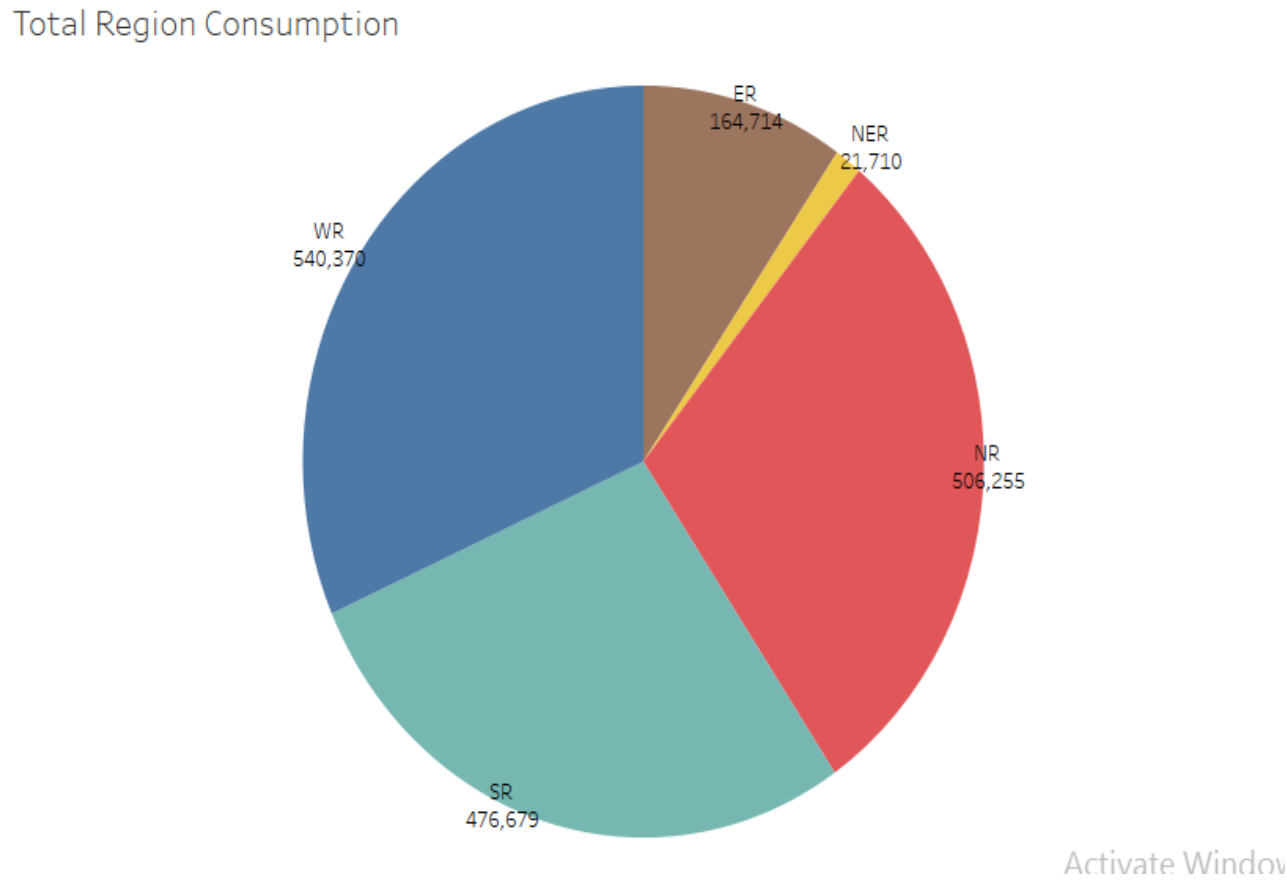
In this project we found that Maharashtra consumes the most and Sikkim consumes the least. The second and third largest consuming states are Gujarat and Uttar Pradesh. Tamil Nadu is the fourth largest electricity consuming state.

Maharashtra consumes the most as it has several industries, manufacturing units and IT companies. Sikkim consumes less as it has less population among Indian states. The graph below shows the top ten electricity consuming states of our country.

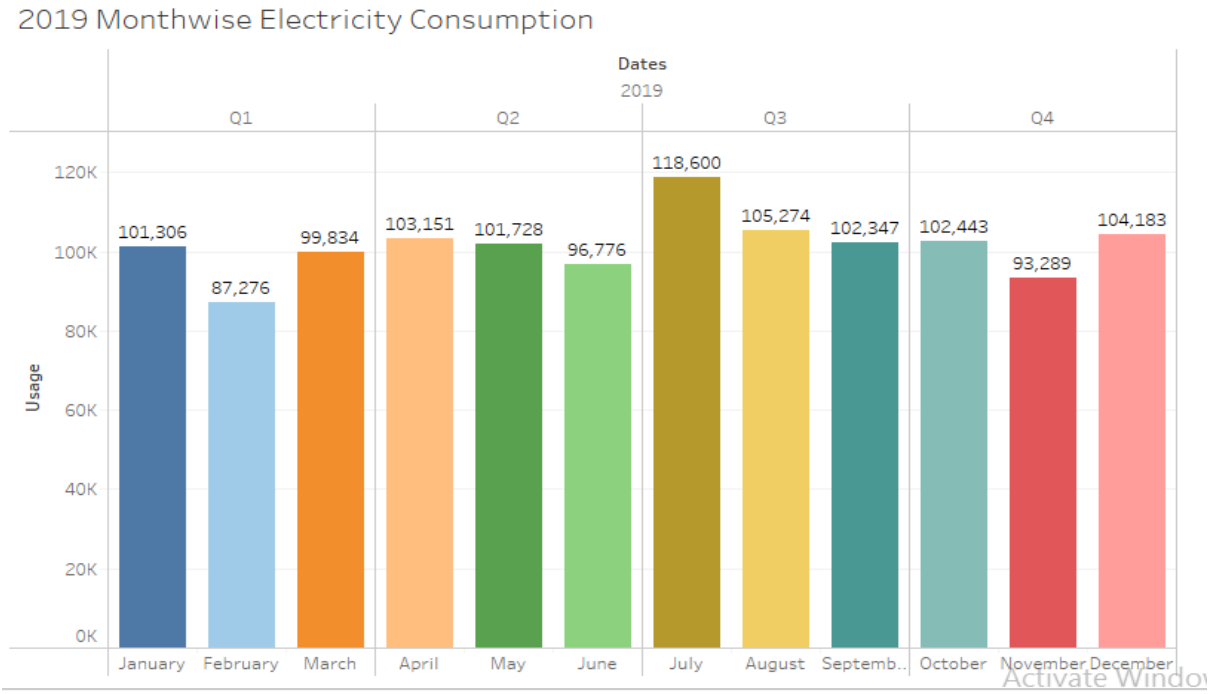


Analyzing region wise, we found that Western region has consumed more electricity and the Northeast region consumes less amount of electricity. There is a marginal difference in the electricity

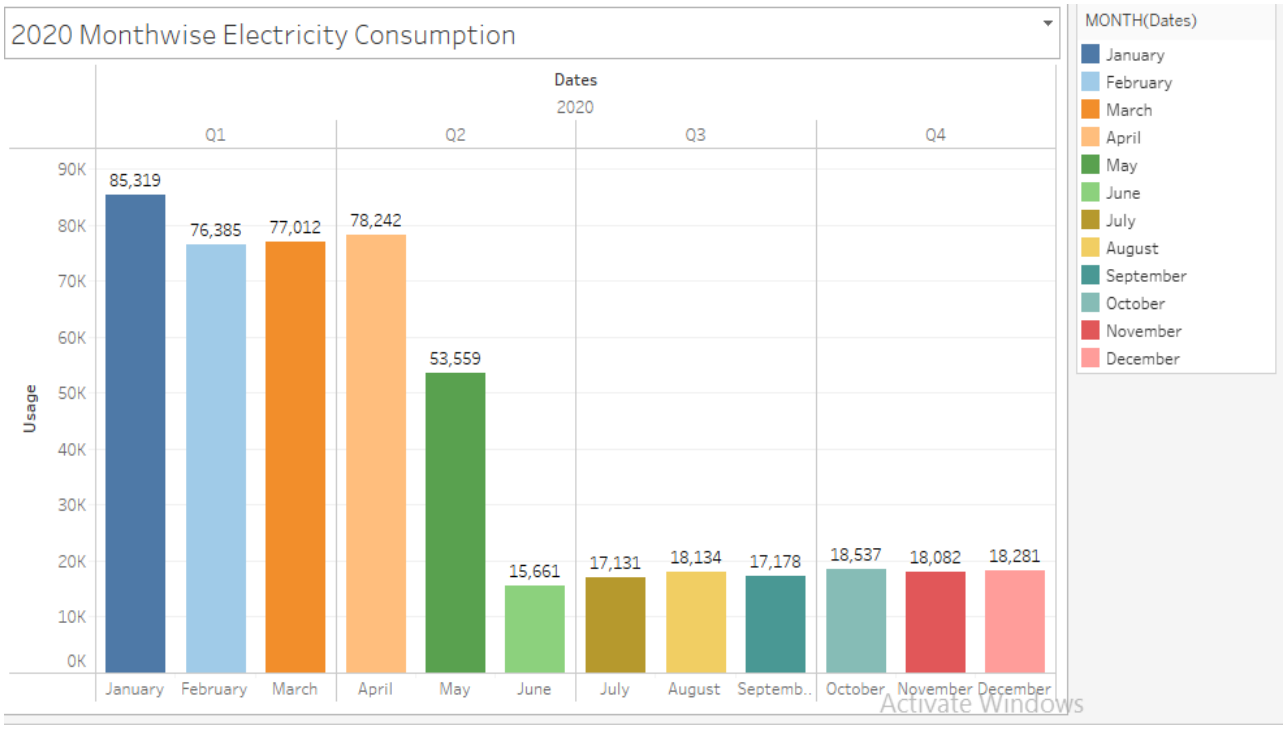
consumption in North, South and West region.



Analyzing month wise electricity usage, we found that in 2019 electricity usage is more in the month of July and less in the month of February.

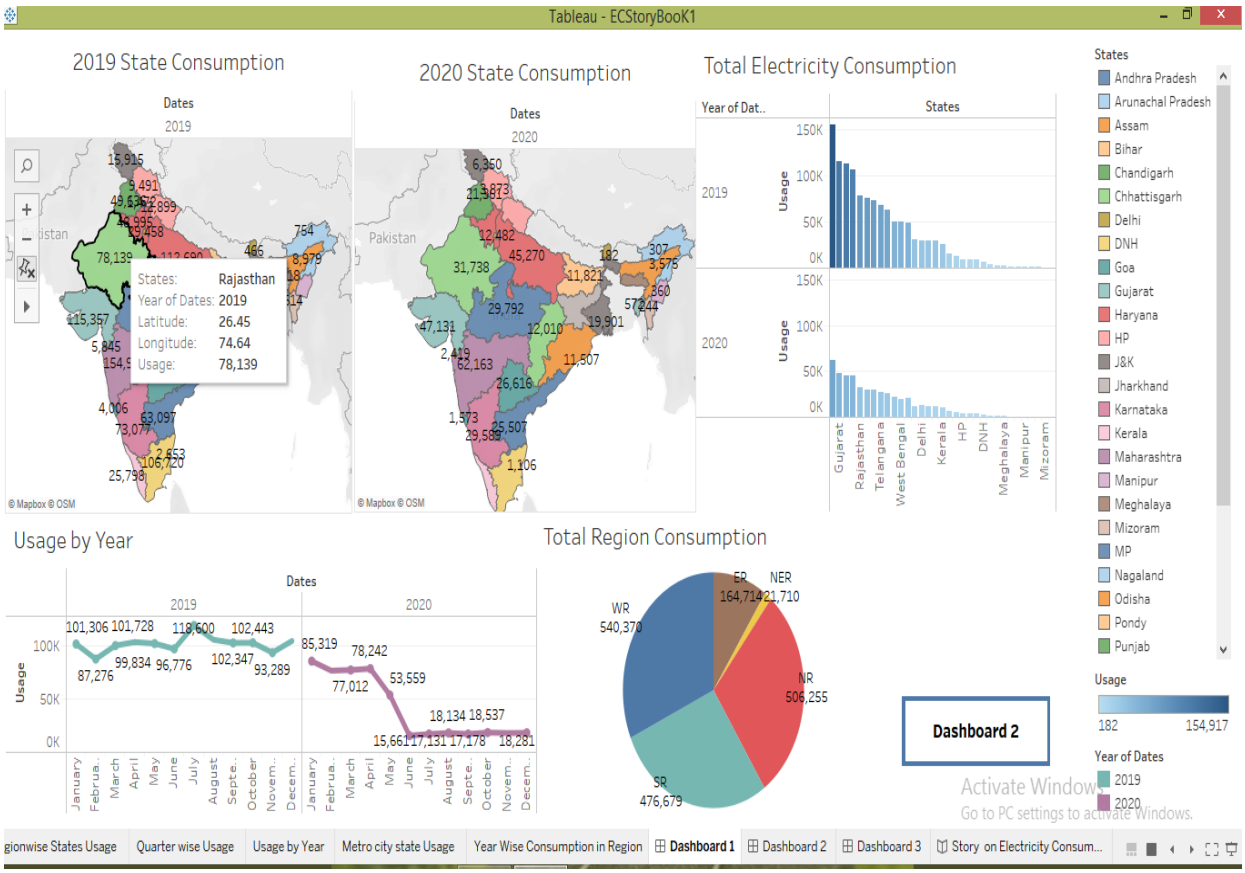


In 2020 it is found that electric usage is more in January and less in June.



The decrease of electricity consumption in June 2020 may be due to the implementation of 'WORK FROM HOME' option to the IT professionals with direct shutdown of many industries. This shows that maximum consumption of electricity is made by the commercial and industrial sectors than domestic sectors.

DASHBOARD 1:



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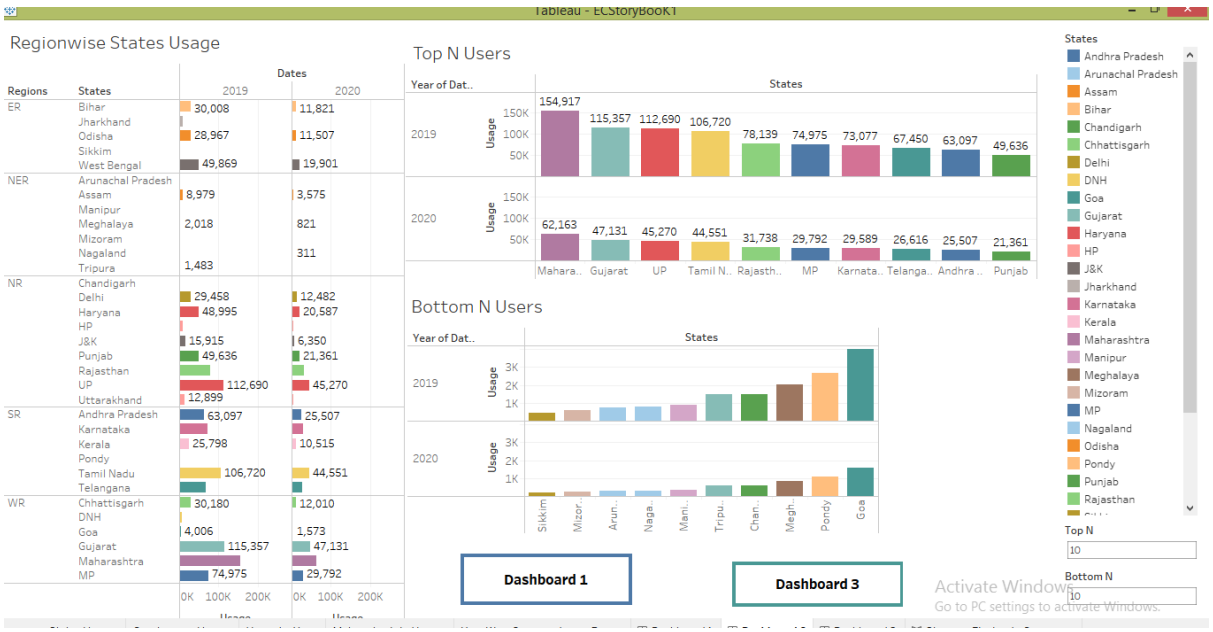

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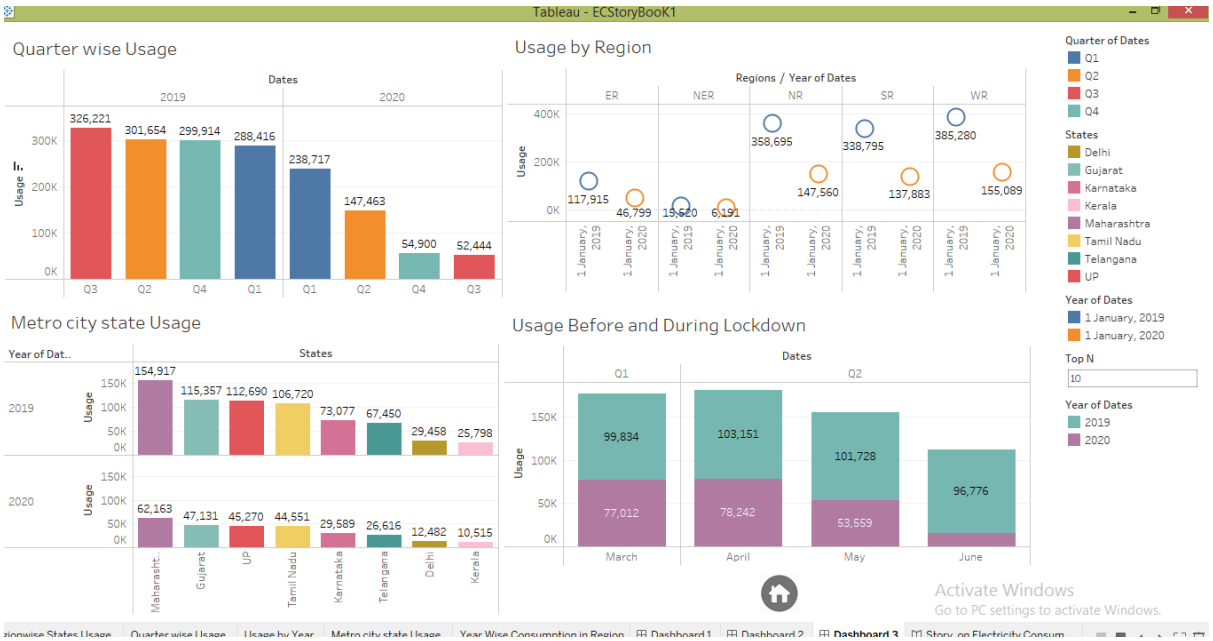

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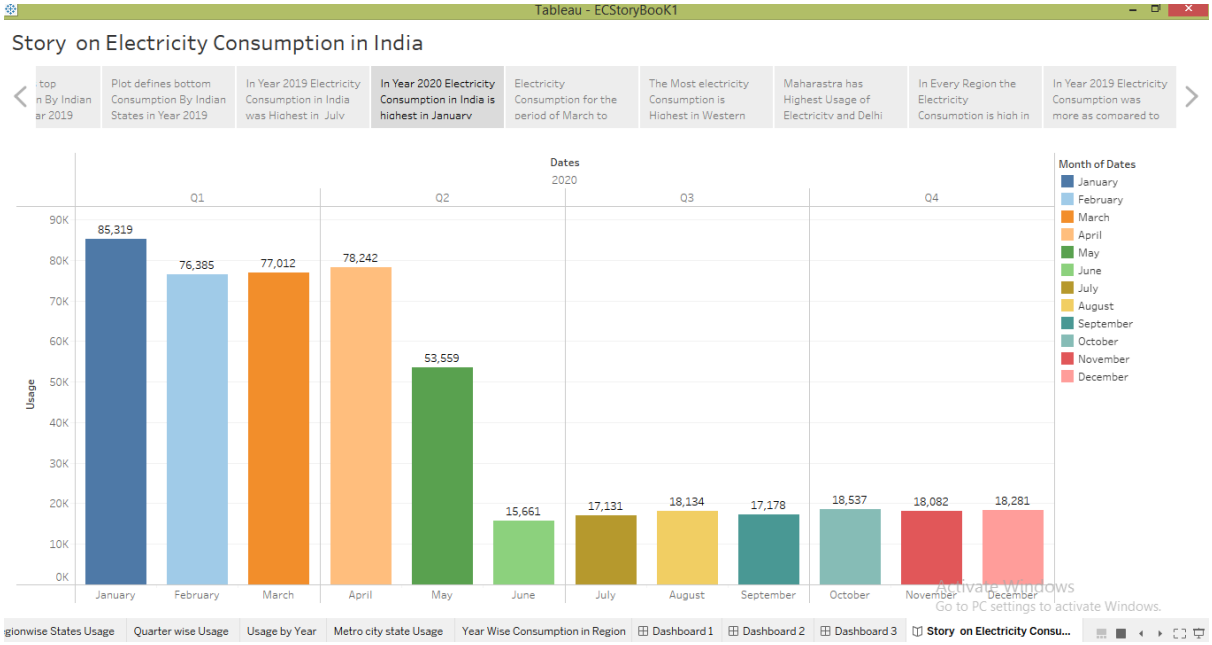

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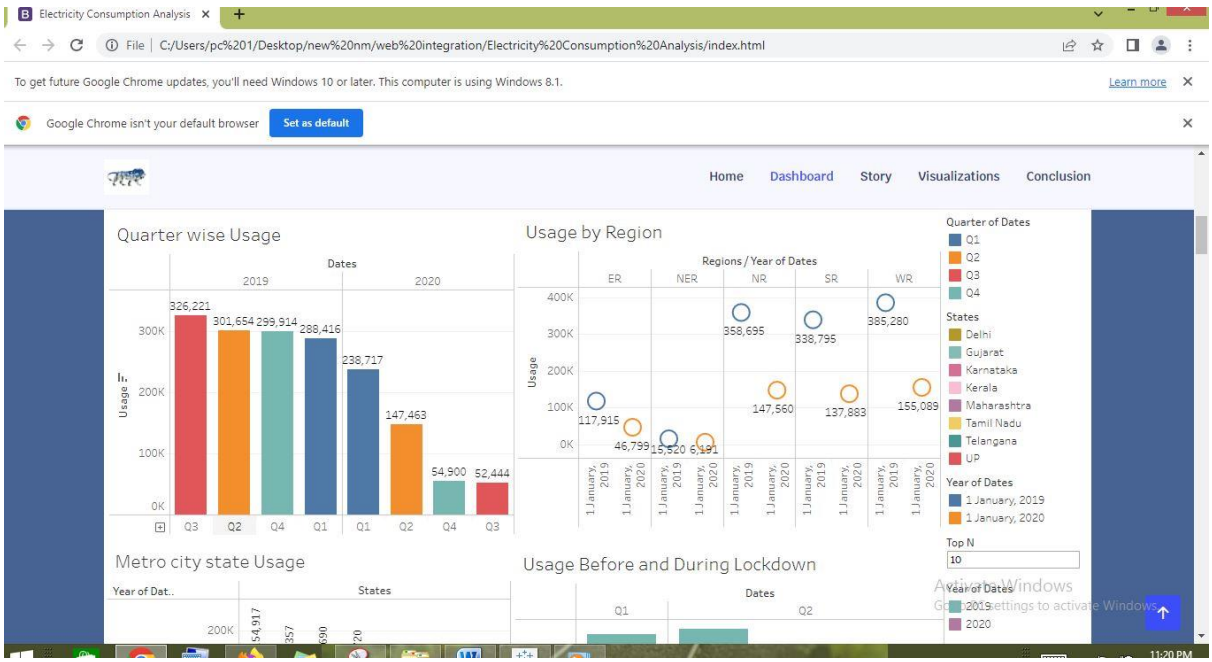

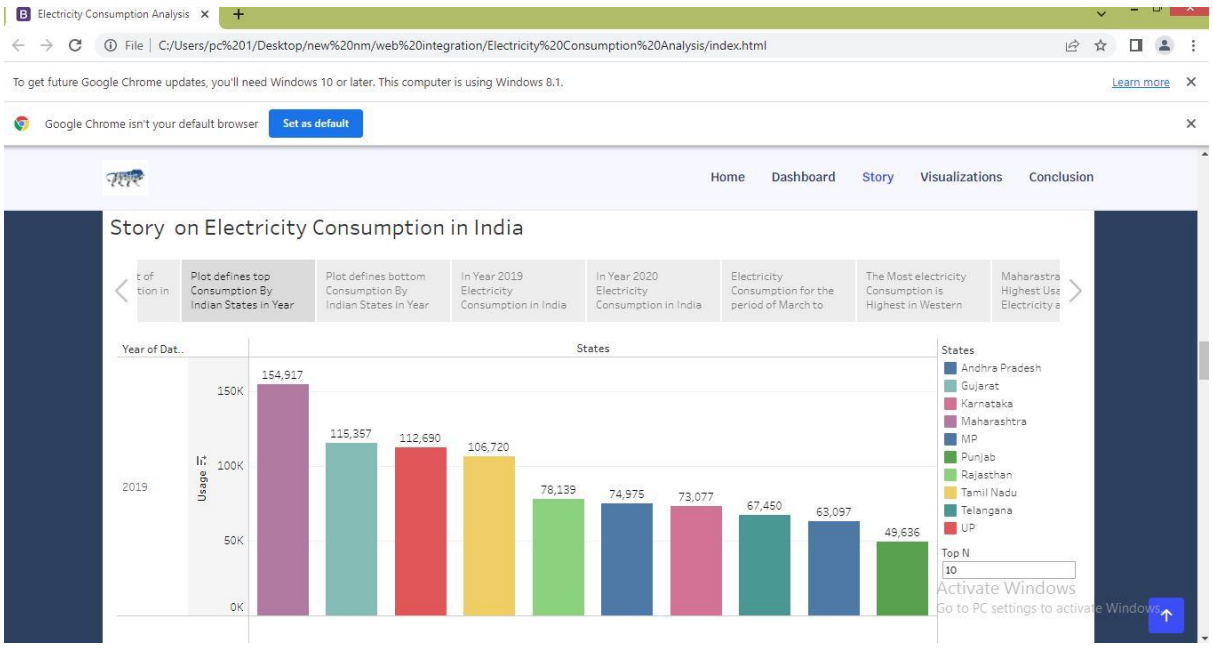

4. ADVANTAGES & DISADVANTAGES:

4.1 ADVANTAGES

The advantages of implementing the project are:

- It helps us to identify the issues that need to be addressed.
- The project helps us to think ahead and prepare for the availability of energy sources in the future.

- It helps in planning and managing the production and distribution of electricity in the future.

4.2 DISADVANTAGES

- Requires high upfront investment of the proposed alternate energy sources.
- Constructing an overall prediction model for electricity industry has many difficulties, including surveys of local infrastructures and acquisition of data during different periods.
- There may be errors in the collected data caused by the inappropriate measurement of induction meters due to temperature, waveform and frequency changes.

5. APPLICATIONS:

- Better understanding of energy consumption pattern contributes to explore different sources of energy generation.
- It provides energy usage information with good availability.
- Analyzing power consumption data allows us to predict future faults so that necessary maintenance actions can be taken.
- Screening and visualizing useful information from massive electricity data is essential to reveal the inner laws and future trends of electricity data and thus improve the operability of the data and the efficiency of power workers.

- Comparison of the data before and after lockdown helps us to understand that the ‘WORK FROM HOME’ Strategy had made a great impact in the environmental pollution.

6. CONCLUSION:

From the data provided, various types of graphs such as bar charts, pie charts were plotted. The results obtained from the graphs are used to predict the major power consumption of electricity state wise, region wise, month wise and quarter wise. The reasons for the difference in the level of consumption were discussed. The problems were also identified and solution was also suggested regarding the same.

7. FUTURE SCOPE:

In the Future we would like to develop the project to the next level by gathering more data and analyzing the insights of the consumption patterns for application purposes. Bring out innovative approaches by applying advanced digital systems and adding Intelligence to machines to increase productivity and efficiency.

8. APPENDIX:

SOURCE CODE:

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* Template URL: https://bootstrapmade.com/bikin-free-simple-landing-page-template/
* Author: BootstrapMade.com
* License: https://bootstrapmade.com/license/
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<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="#features">Conclusion</a></li>
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per capita in FY2019 was 1,208 kWh. </h2>
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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
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<div class='tableauPlaceholder' id='viz1681375952158' style='position: relative'><noscript><a href='#'><img alt='Story on Electricity Consumption in India ' src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;WF&#47;WFQMNYH5S&#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;WFQMNYH5S' /> <param name='toolbar' value='yes' /><param name='static_image' value='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;WF&#47;WFQMNYH5S&#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('viz1681375952158'); 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>
```

<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='Proj1_16710007367810/StoryonElectricityConsumptionInIndia' />
<param name='tabs' value='no' />
<param name='toolbar' value='no' />
<param name='static_image'
value='https://public.tableau.com/static/images/Pr/Proj1_1
6710007367810/StoryonElectricityConsumptionInIndia/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' />
<param name='filter' value='publish=yes' />
<param name='showShareOptions' value='false' />
</object>

<script type='text/javascript'>
var divElement = document.getElementById('viz1671000792400');
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>

</section>
<!-- ======= Features Section ======= -->
<!-- End Features Section -->
<!-- ======= Services Section ======= -->
<!-- End Services Section -->
<!-- ======= Portfolio Section ======= -->
<section id="portfolio" class="portfolio">

```
<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/portfolio/p1.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/portfolio/p2.jpg" class="img-fluid" alt="">
<div class="portfolio-info">
<h4>Image 2</h4>
<div class="portfolio-links">
<a href="assets/img/portfolio/p2.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/portfolio/p3.jpg" class="img-fluid" alt="">
<div class="portfolio-info">
<h4>Image 3</h4>
<div class="portfolio-links">
<a href="assets/img/portfolio/p3.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/portfolio/p5.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 class="col-lg-4 col-md-6 portfolio-item filter-web">
<div class="portfolio-wrap">
<img src="assets/img/portfolio/p6.jpg" class="img-fluid" alt="">
<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">
<img src="assets/img/portfolio/p4.jpg" class="img-fluid" alt="">
<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>
</div>
</div>
</div>
</div>
</div>
</div>
</section>
<!-- End Portfolio Section -->
<section id="features" class="features" data-aos="fade-up">
<div class="container">
```

```
<div class="section-title">
<h2>Conclusion</h2>
</div>
<div class="row content">
<div class="col-md-5" data-aos="fade-right" data-aos-delay="100">
<img src="assets/img/img1.jpg" class="img-fluid" alt="">
</div>
<div class="col-md-7 pt-4" data-aos="fade-left" data-aos-delay="100">
<h3>Electricity Consumption Stats.</h3>
<ul>
<li><i class=" bi bi-check"></i> Maharashtra is the Highest Electricity consumption user of India.</li>
<li><i class="bi bi-check"></i> Gujarat is the Second Highest Electricity consumption user of India.</li>
<li><i class="bi bi-check"></i> Sikkim is the Lowest Electricity Consumption user of India .</li>
</ul>
</div>
</div>
<div class="row content">
<div class="col-md-5 order-1 order-md-2" data-aos="fade-left">
<img src="assets\img\img2.jpg" class="img-fluid" alt="">
</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">
<img src="assets/img/img3.jpg" class="img-fluid" alt="">
</div>
<div class="col-md-7 pt-5" data-aos="fade-left">
<h3>Electricity Consumption in Quarters</h3>
<ul>
```

 Electricity Consumption in 2019 for Quarter 3 was Highest.
 Electricity Consumption in 2019 for Quarter 1 was Lowest.
 Electricity Consumption in 2020 for Quarter 3 was Lowest.
 Electricity Consumption in 2020 for Quarter 1 was Highest.

<img src="assets/img/img5.jpg" class="img-fluid" alt="">

<h3>Electricity Consumption in Regions</h3>

 Total Electricity consumption in Western Region is Highest.
 Total Electricity consumption in North Eastern Region is Lowest.
 Electricity Consumption in 2020 for Quarter 3 was Lowest.
 Electricity Consumption in 2020 for Quarter 1 was Highest.

</section>

<!-- ======= Contact Section ======= -->
<section id="contact" class="contact section-bg">

<h2>Contact</h2>

```
<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>
</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">
&copy; Copyright <strong><span>SmartBridge</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/bikin-free-simple-landing-page-template/ -->
Designed by <a href="https://bootstrapmade.com/">Indra Prakash</a>
</div>
</div>
<div class="social-links text-center text-md-right pt-3 pt-md-0">
<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>
</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/php-email-form/validate.js"></script>

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

</body>

</html>
```