PLUGGING INTO THE FUTURE: AN EXPLORATION OF ELECTRICITY CONSUMPTION

SUBMITTED BY:
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INTRODUCTION:

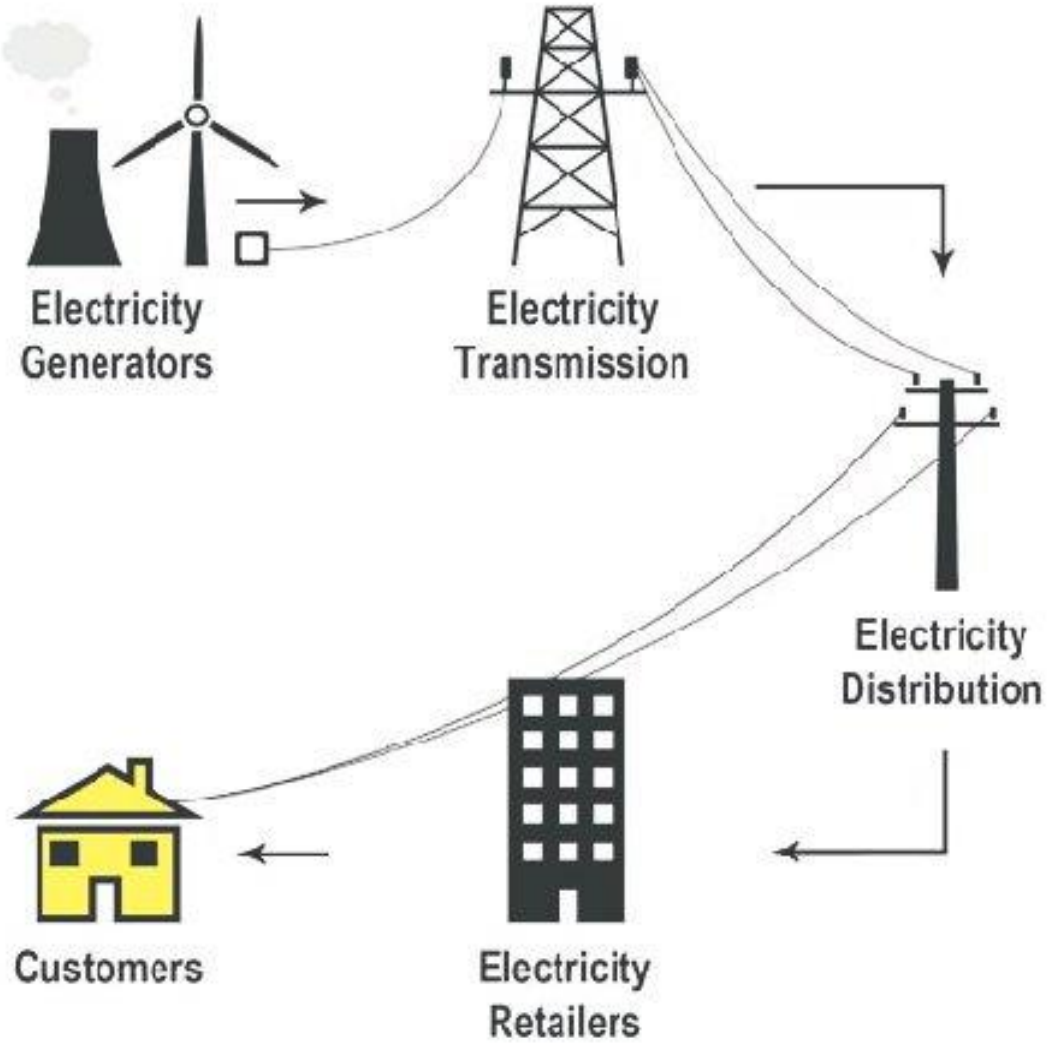
India is the world's third-largest producer and third-largest consumer of electricity. The national electric grid in India has an installed capacity of 370.106 GW as of 31 March 2020. Renewable power plants, which also include large hydroelectric plants, constitute 35.86% of India's total installed capacity. 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.

In 2015-16, electric energy consumption in agriculture was recorded as being the highest (17.89%) worldwide. The per capita electricity consumption is low compared to most other countries despite India having a low electricity tariff.

In light of the 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 a negative way.

The dataset is exhaustive in its demonstration of energy consumption state wise.

Analyzing Electricity Consumption in India from Jan 2019 till 5th December 2020.This dataset contains a record of electricity consumption in each States of India, here we are going to analyze State wise, Region wise and Overall Electricity consumption in India.

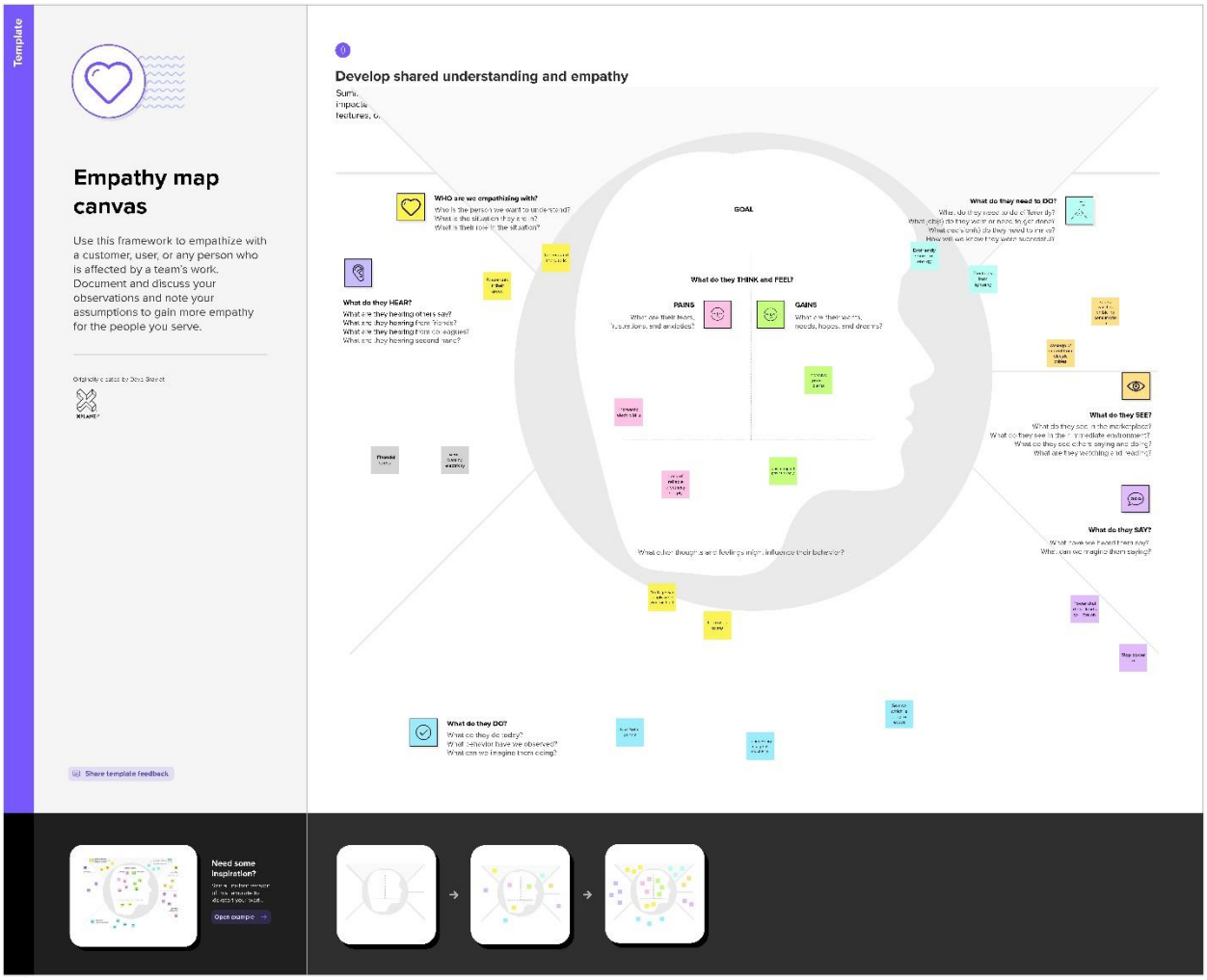


Electricity Consumption Pattern Analysis.

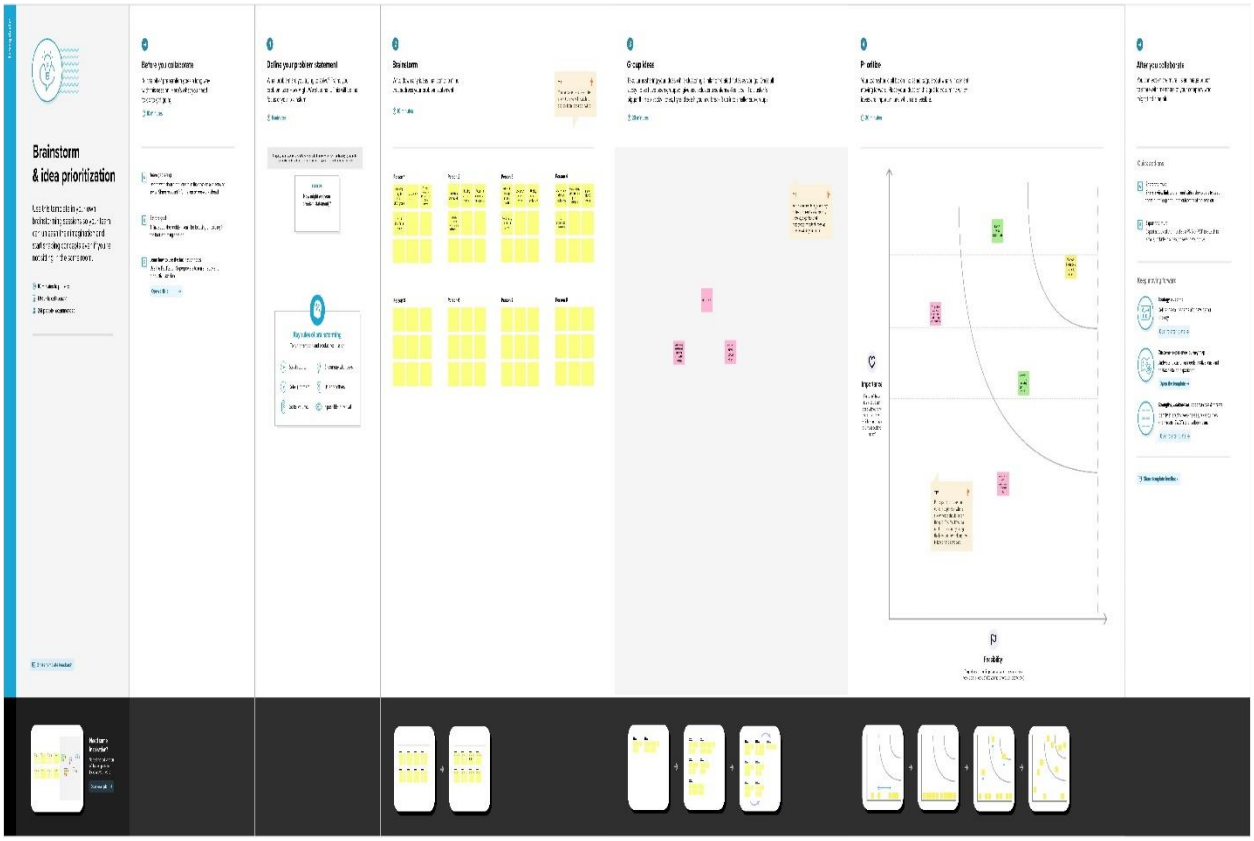
PROBLEM DEFINITION & DESIGN THINKING:

To analyze the utilization of electricity by the people during Covid pandemic and identifying the market opportunities and developing strategies to meet the growing demand for electricity in India

EMPATHY MAP:

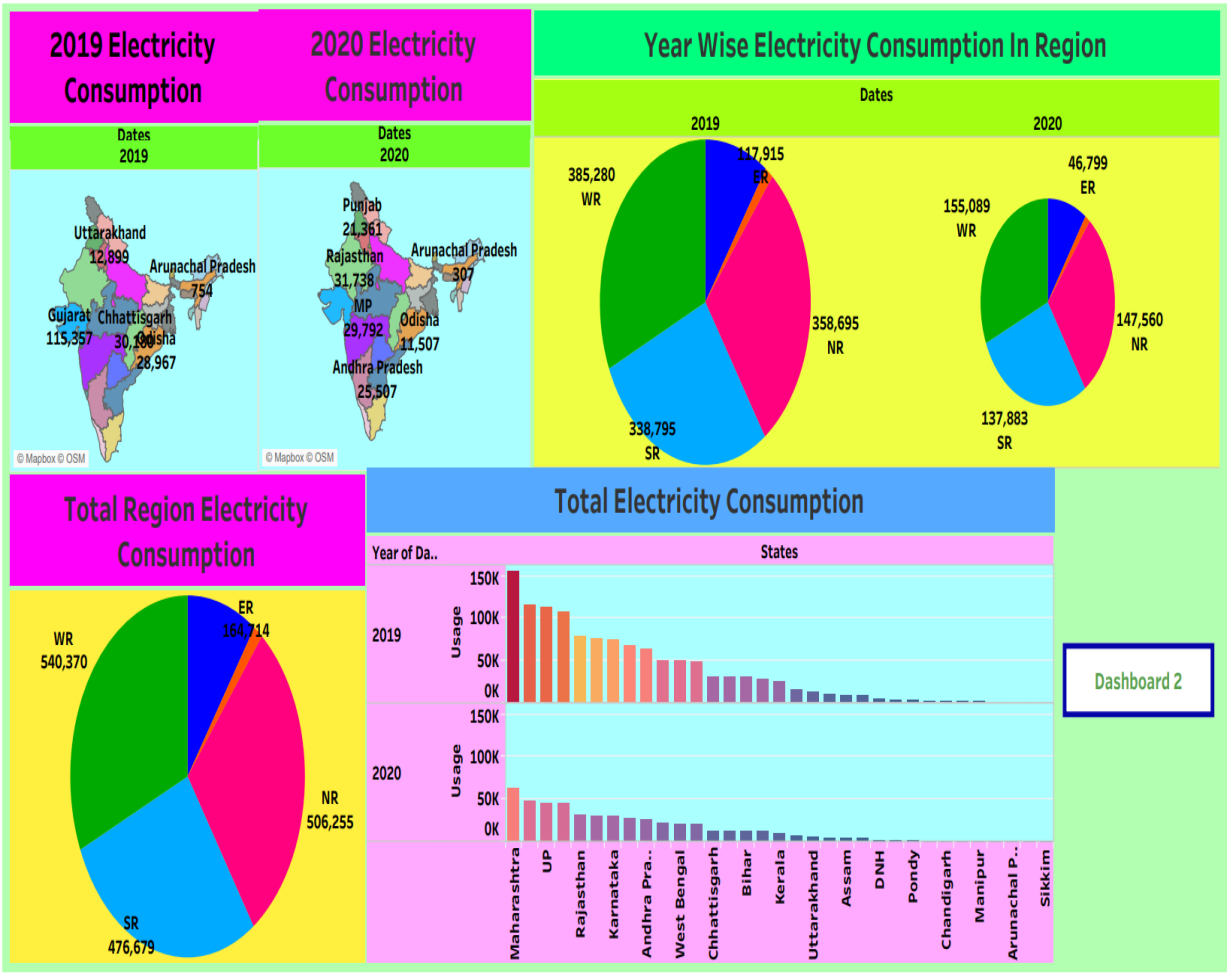


IDEATION &BRAINSTORMING MAP:

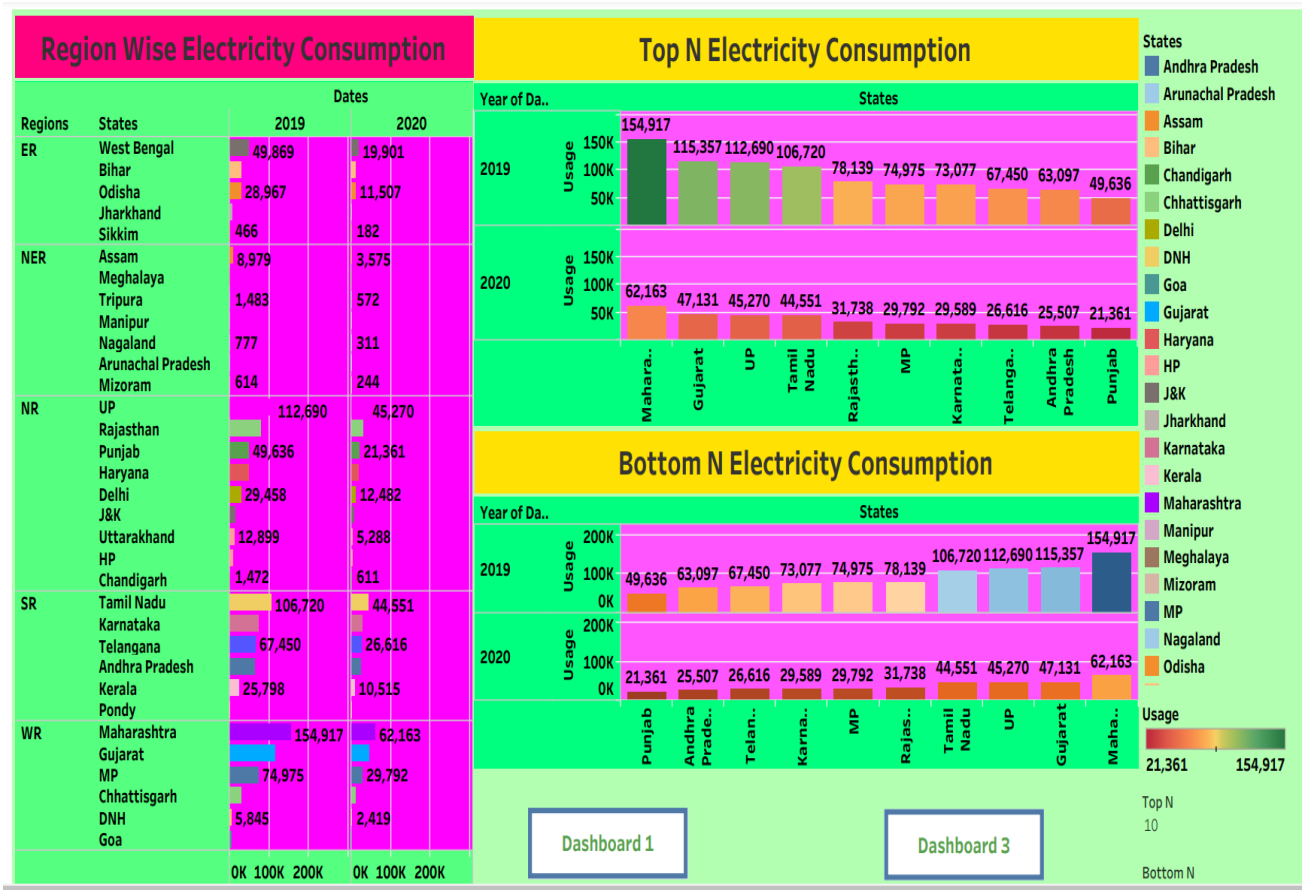


RESULT:

DASHBOARD 1



DASHBOARD 2


Region Wise Electricity Consumption
Dates
Regions
States
2019
2020
ER
West Bengal
49,869
19,901
Bihar
Odisha
28,967
11,507
Jharkhand
Sikkim
466
182
NER
Assam
8,979
3,575
Meghalaya
Tripura
1,483
572
Manipur
Nagaland
777
311
Arunachal Pradesh
Mizoram
614
244
NR
UP
112,690
45,270
Rajasthan
Punjab
49,636
21,361
Haryana
Delhi
29,458
12,482
J&K
Uttarakhand
12,899
5,288
HP
Chandigarh
1,472
611
SR
Tamil Nadu
106,720
44,551
Karnataka
Telangana
67,450
26,616
Andhra Pradesh
Kerala
25,798
10,515
Pondy
WR
Maharashtra
154,917
62,163
Gujarat
MP
74,975
29,792
Chhattisgarh
DNH
5,845
2,419
Goa
0K 100K 200K
0K 100K 200K
Top N Electricity Consumption
Year of Da..
States
2019
2020
Usage
150K
100K
50K
154,917
115,357
112,690
106,720
78,139
74,975
73,077
67,450
63,097
49,636
62,163
47,131
45,270
44,551
31,738
29,792
29,589
26,616
25,507
21,361
Mahara..
Gujarat
UP
Tamil Nadu
Rajasth..
MP
Karnata..
Telanga..
Andhra Pradesh
Punjab
Bottom N Electricity Consumption
Year of Da..
States
2019
2020
Usage
200K
100K
0K
49,636
63,097
67,450
73,077
74,975
78,139
106,720
112,690
115,357
154,917
21,361
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Punjab
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Karna..
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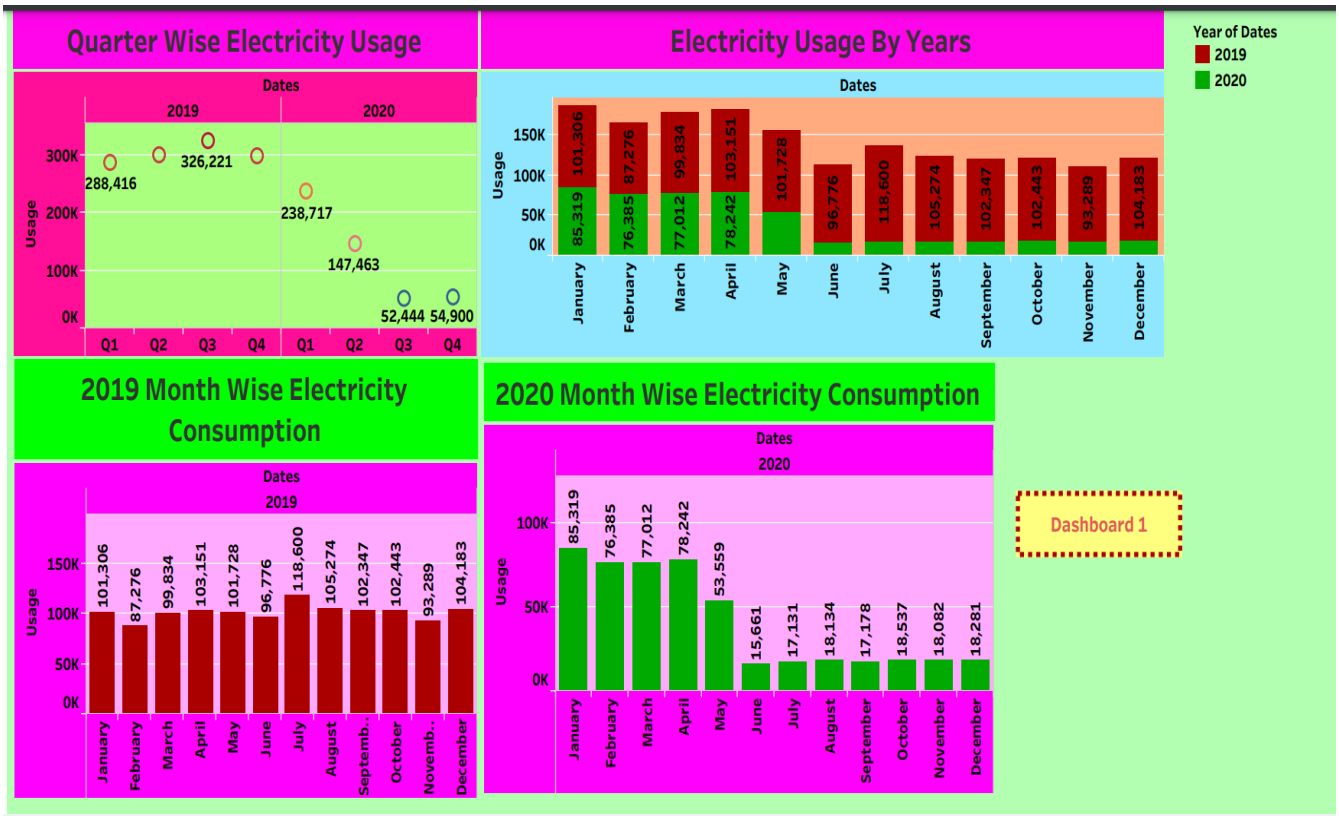
Tamil Nadu
UP
Gujarat
Maha..
Dashboard 1
Dashboard 3
States
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chandigarh
Chhattisgarh
Delhi
DNH
Goa
Gujarat
Haryana
HP
J&K
Jharkhand
Karnataka
Kerala
Maharashtra
Manipur
Meghalaya
Mizoram
MP
Nagaland
Odisha
Usage
21,361
154,917
Top N
10
Bottom N

DASHBOARD 3


Quarter Wise Electricity Usage
Dates
2019
2020
Usage
300K
200K
100K
0K
288,416
326,221
238,717
147,463
52,444
54,900
Q1
Q2
Q3
Q4
Q1
Q2
Q3
Q4
Electricity Usage By Years
Dates
Usage
150K
100K
50K
0K
101,306
87,276
99,834
103,151
101,728
96,776
118,600
105,274
102,347
102,443
93,289
104,183
85,319
76,385
77,012
78,242
January
February
March
April
May
June
July
August
September
October
November
December
Year of Dates
2019
2020
2019 Month Wise Electricity Consumption
Dates
2019
Usage
150K
100K
50K
0K
101,306
87,276
99,834
103,151
101,728
96,776
118,600
105,274
102,347
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January
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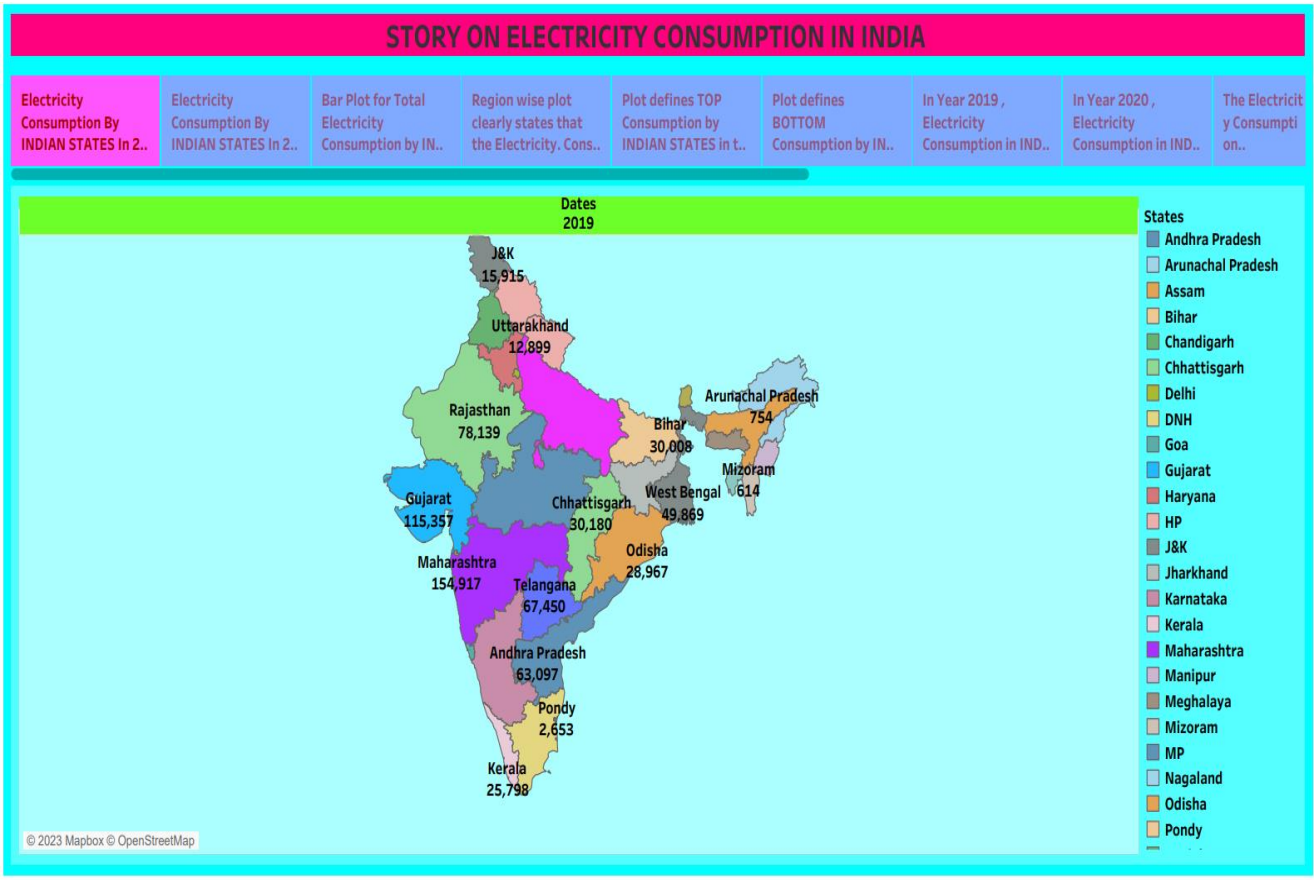
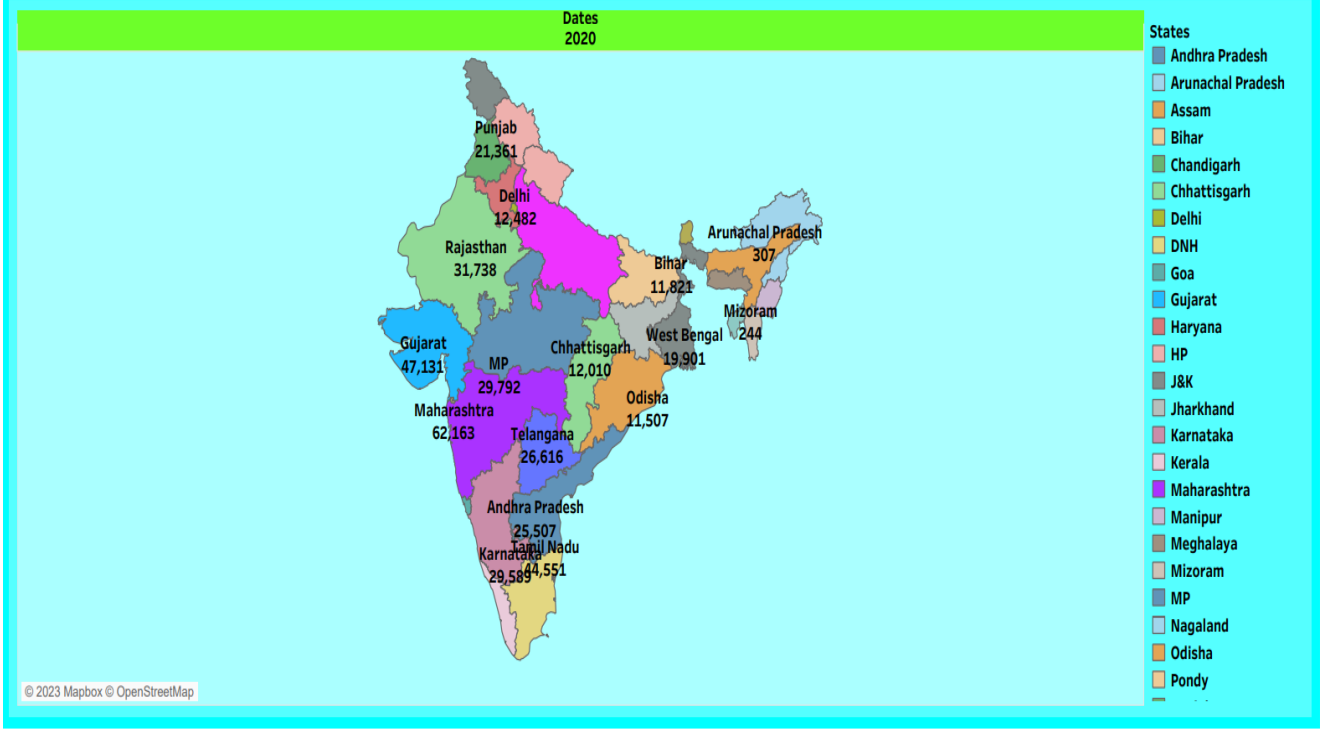
Dates
2020
Usage
100K
50K
0K
85,319
76,385
77,012
78,242
53,559
15,661
17,131
18,134
17,178
18,537
18,082
18,281
January
February
March
April
May
June
July
August
September
October
November
December
Dashboard 1

STORY ON ELECTRICITY CONSUMPTION



STORY ON ELECTRICITY CONSUMPTION IN INDIA

Electricity Consumption By INDIAN STATES In 2.. | **Electricity Consumption By INDIAN STATES In 2..** | Bar Plot for Total Electricity Consumption by IN.. | Region wise plot clearly states that the Electricity. Cons.. | Plot defines TOP Consumption by INDIAN STATES in t.. | Plot defines BOTTOM Consumption by IN.. | In Year 2019 , Electricity Consumption in IND.. | In Year 2020 , Electricity Consumption in IND.. | The Electricity Consumption..



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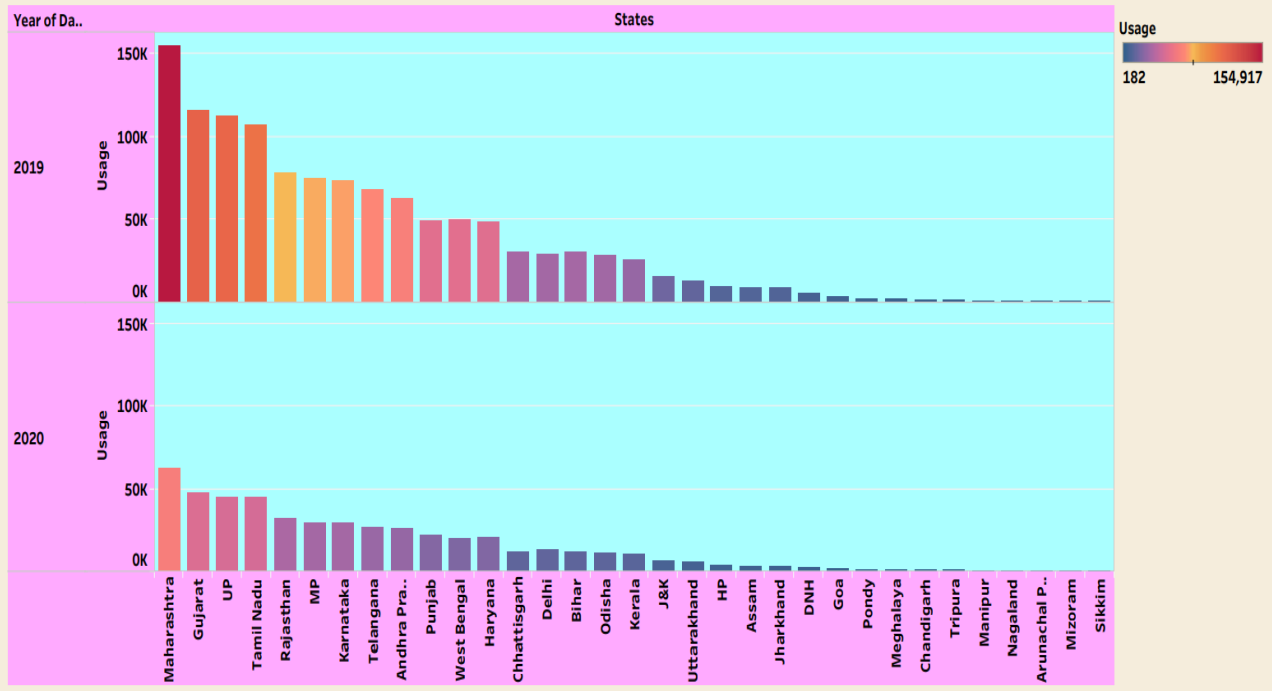

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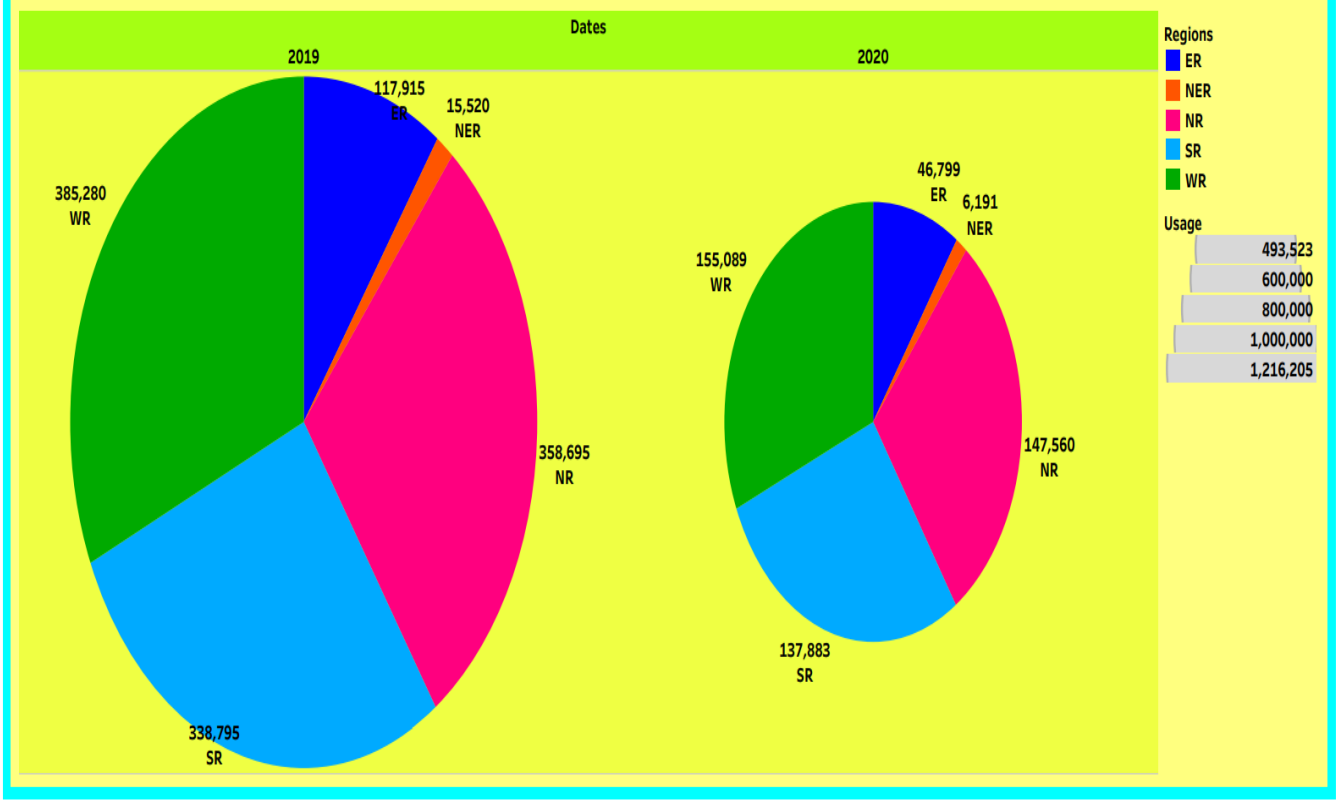

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STORY ON ELECTRICITY CONSUMPTION IN INDIA

Electricity Consumption By INDIAN STATES..

Bar Plot for Total Electricity Consumption by IN..

Region wise plot clearly states that the Electricity. Cons..

Plot defines TOP Consumption by INDIAN STATES in t..

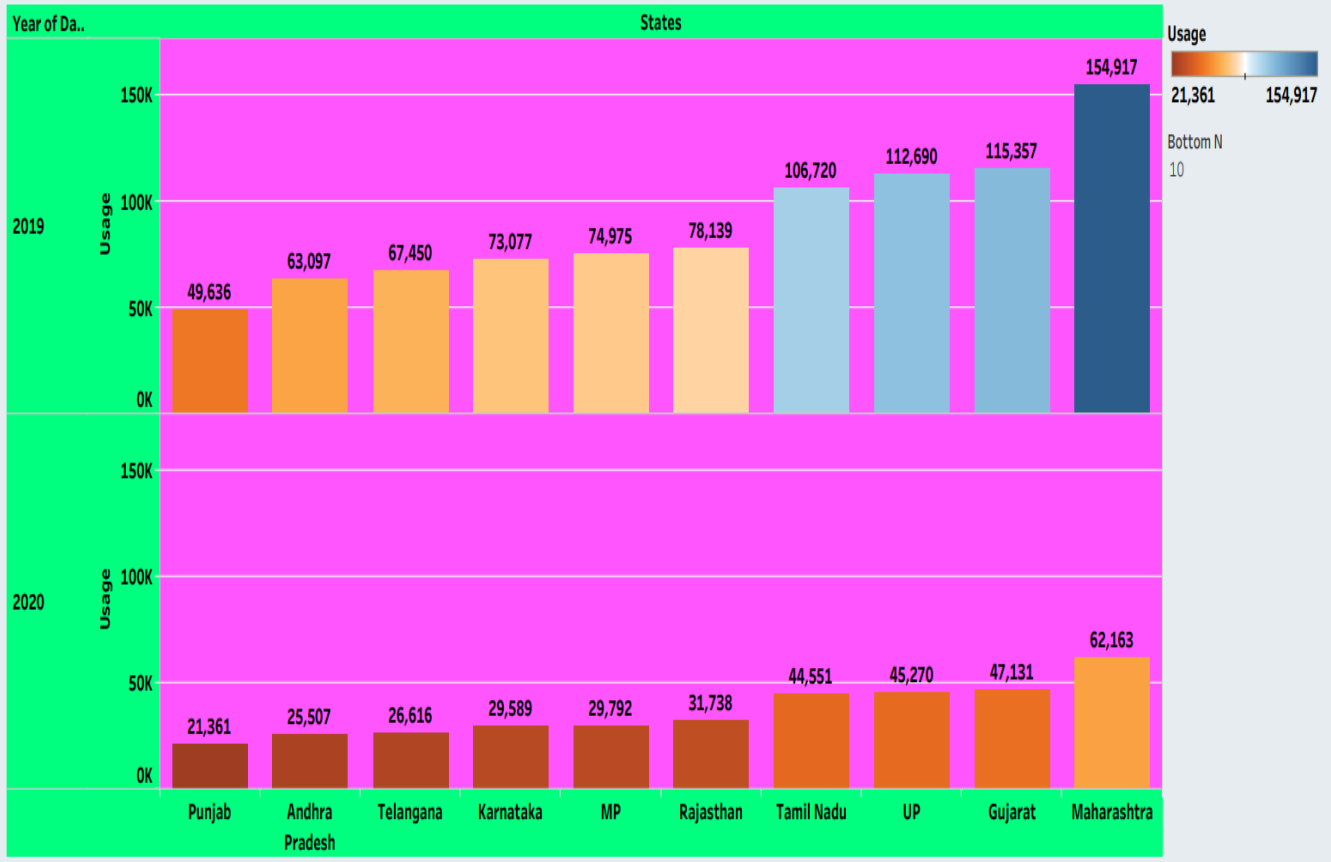
Plot defines BOTTOM Consumption by IN..

In Year 2019 , Electricity Consumption in IND..

In Year 2020 , Electricity Consumption in IND..

The Electricity Consumption is the highest in WESTER..

Electricity Consumption for a period of MARCH t..



STORY ON ELECTRICITY CONSUMPTION IN INDIA

Bar Plot for Total Electricity Consumption b..

Region wise plot clearly states that the Electricity. Cons..

Plot defines TOP Consumption by INDIAN STATES in t..

Plot defines BOTTOM Consumption by IN..

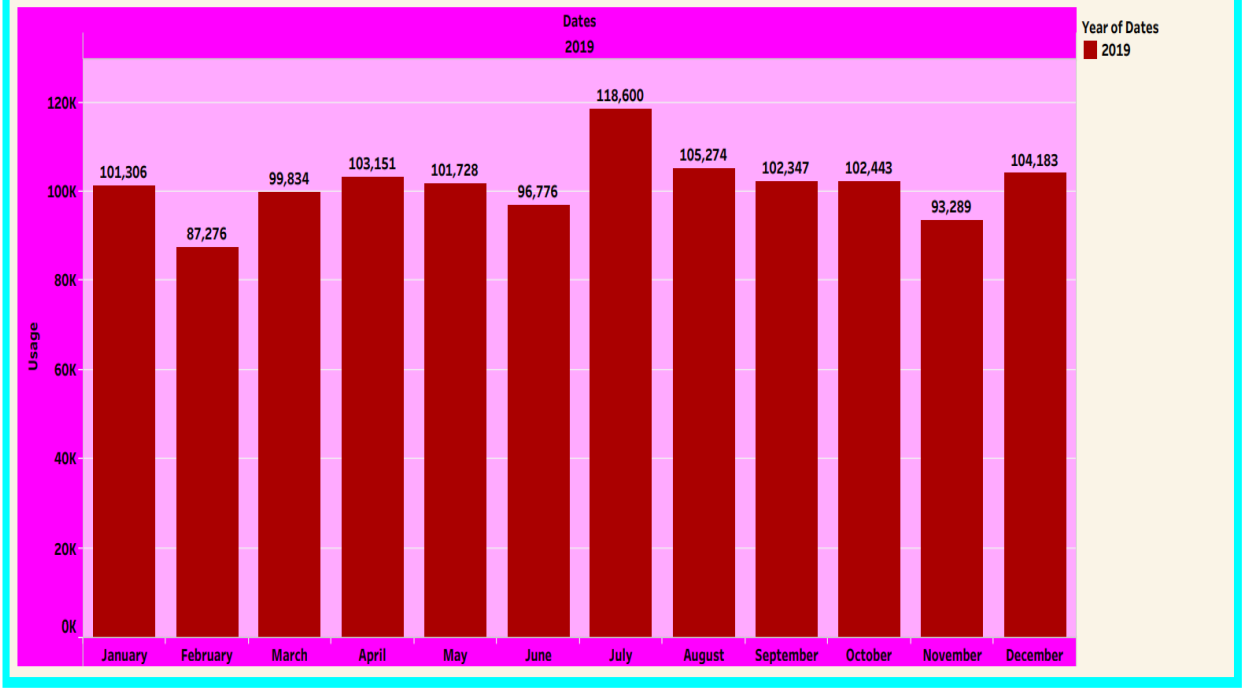
In Year 2019 , Electricity Consumption in IND..

In Year 2020 , Electricity Consumption in IND..

The Electricity Consumption is the highest in WESTER..

Electricity Consumption for a period of MARCH to ..

In 2019 the Electricity Consumption in W..



STORY ON ELECTRICITY CONSUMPTION IN INDIA

Region wise plot clearly states that the ..

Plot defines TOP Consumption by INDIAN STATES in t..

Plot defines BOTTOM Consumption by IN..

In Year 2019 , Electricity Consumption in IND..

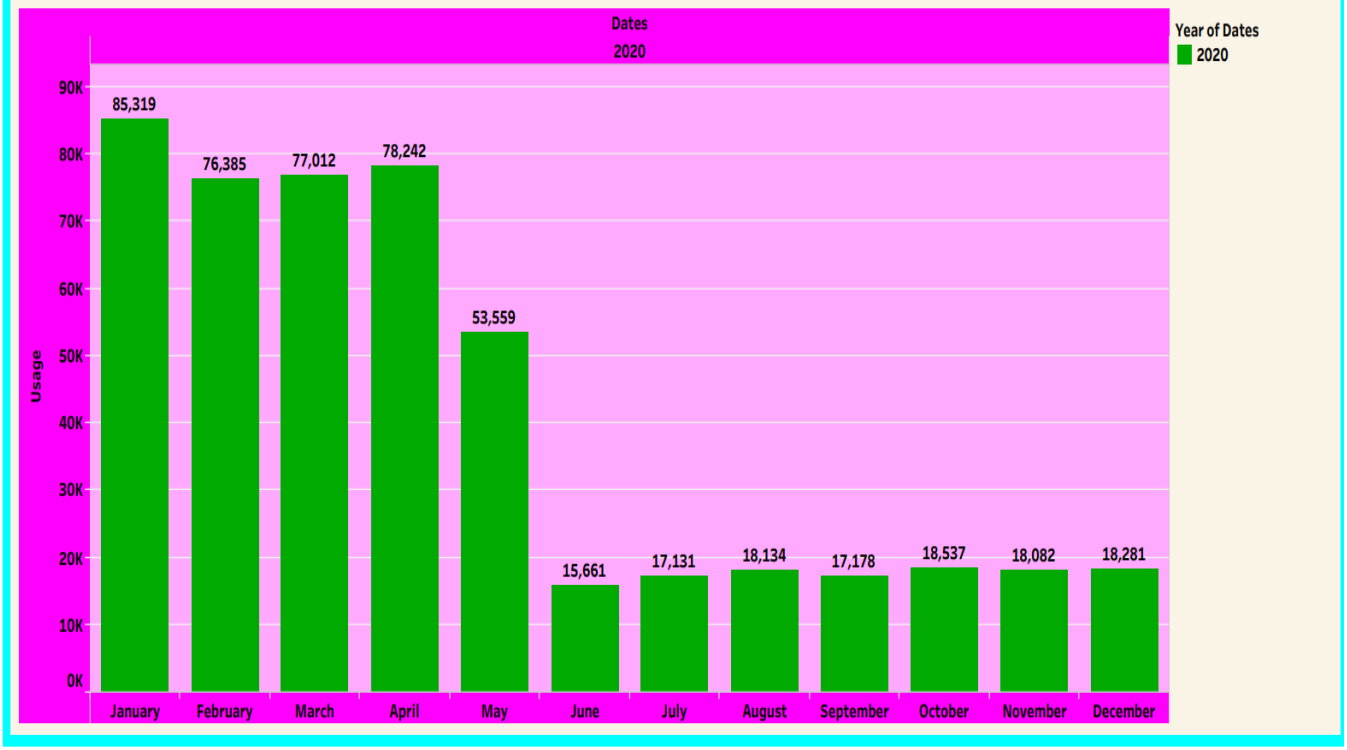
In Year 2020 , Electricity Consumption in IND..

The Electricity Consumption is the highest in WESTER..

Electricity Consumption for a period of MARCH to ..

In 2019 the Electricity Consumption in We..

In 2019, the Electricity Consumption is Hi..



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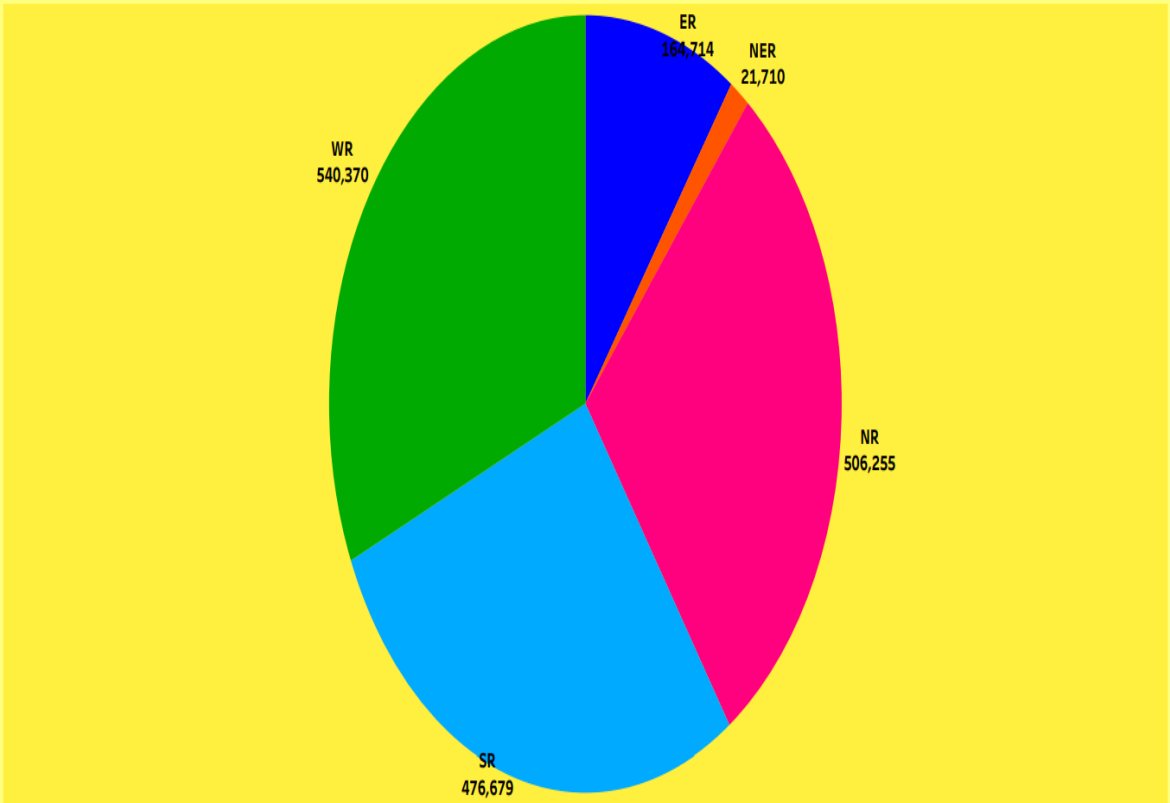
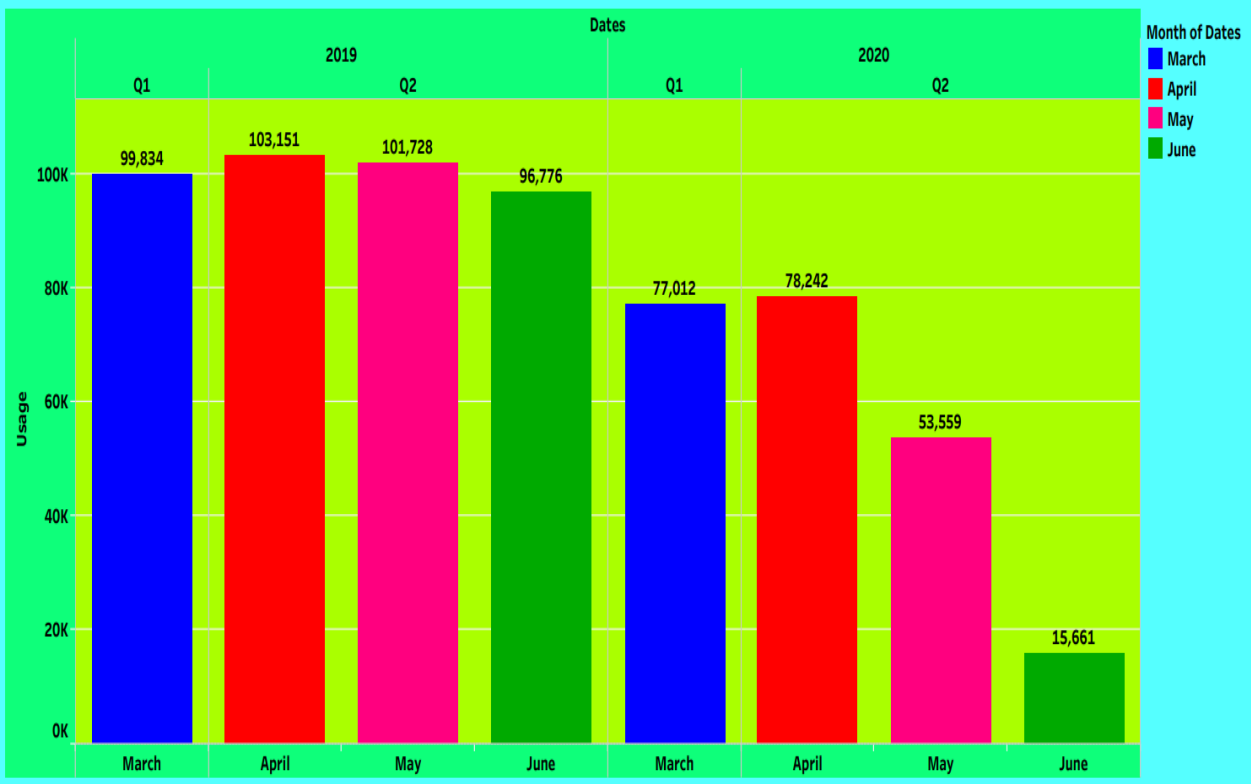


STORY ON ELECTRICITY CONSUMPTION IN INDIA

Plot defines BOTTOM Consumption b..	In Year 2019 , Electricity Consumption in IND..	In Year 2020 , Electricity Consumption in IND..	The Electricity Consumption is the highest in WESTER..	Electricity Consumption for a period of MARCH to ..	In 2019 the Electricity Consumption in We..	In 2019, the Electricity Consumption is Hig..	MAHARASTRA has the highest usage of Electricity in 2019. I..	In the Year 2019, the Electricity Consumption was ..



STORY ON ELECTRICITY CONSUMPTION IN INDIA

Plot defines BOTTOM Consumptio..

In Year 2019 , Electricity Consumption in IND..

In Year 2020 , Electricity Consumption in IND..

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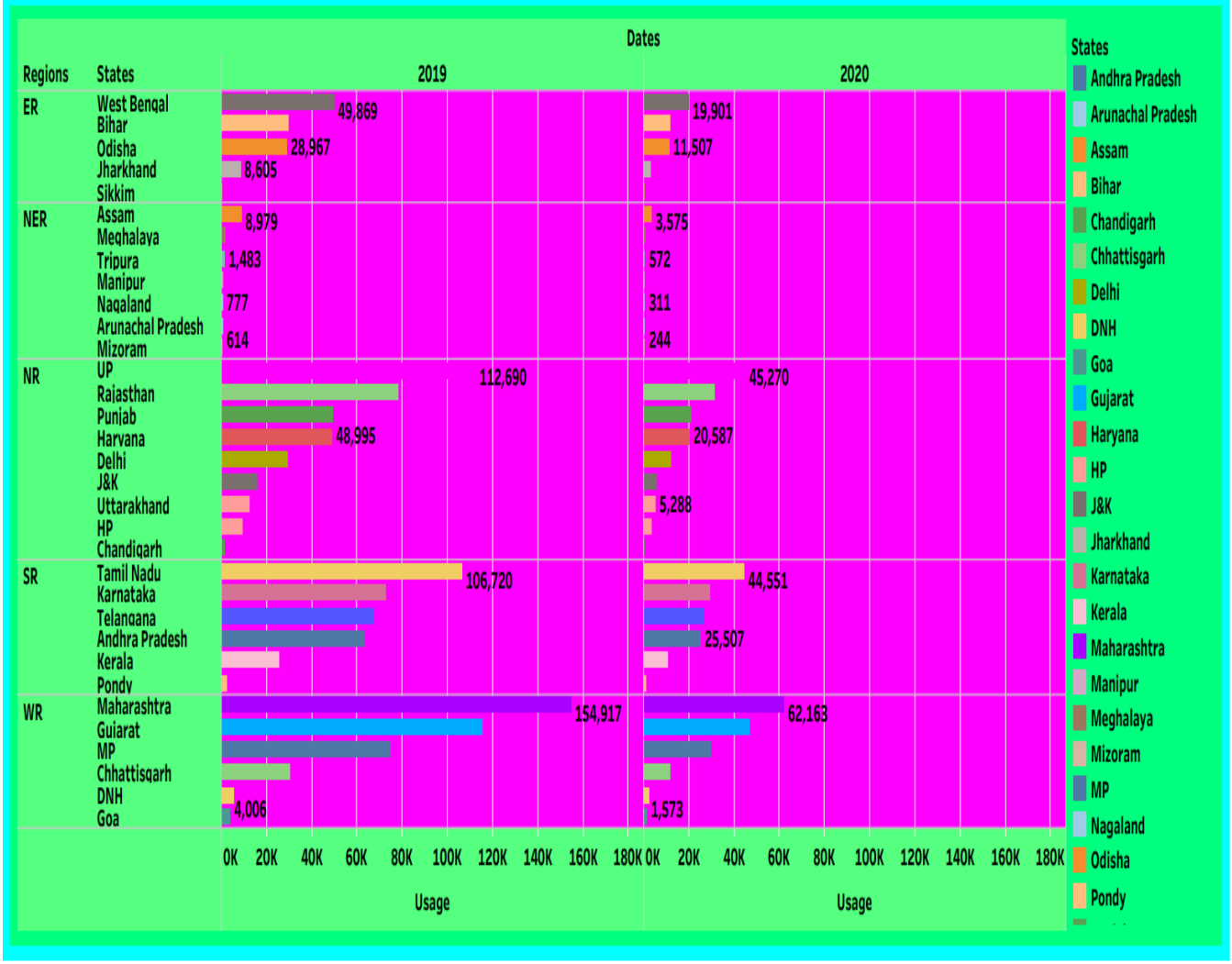
In the Year 2019, the Electricity Consumption was m..



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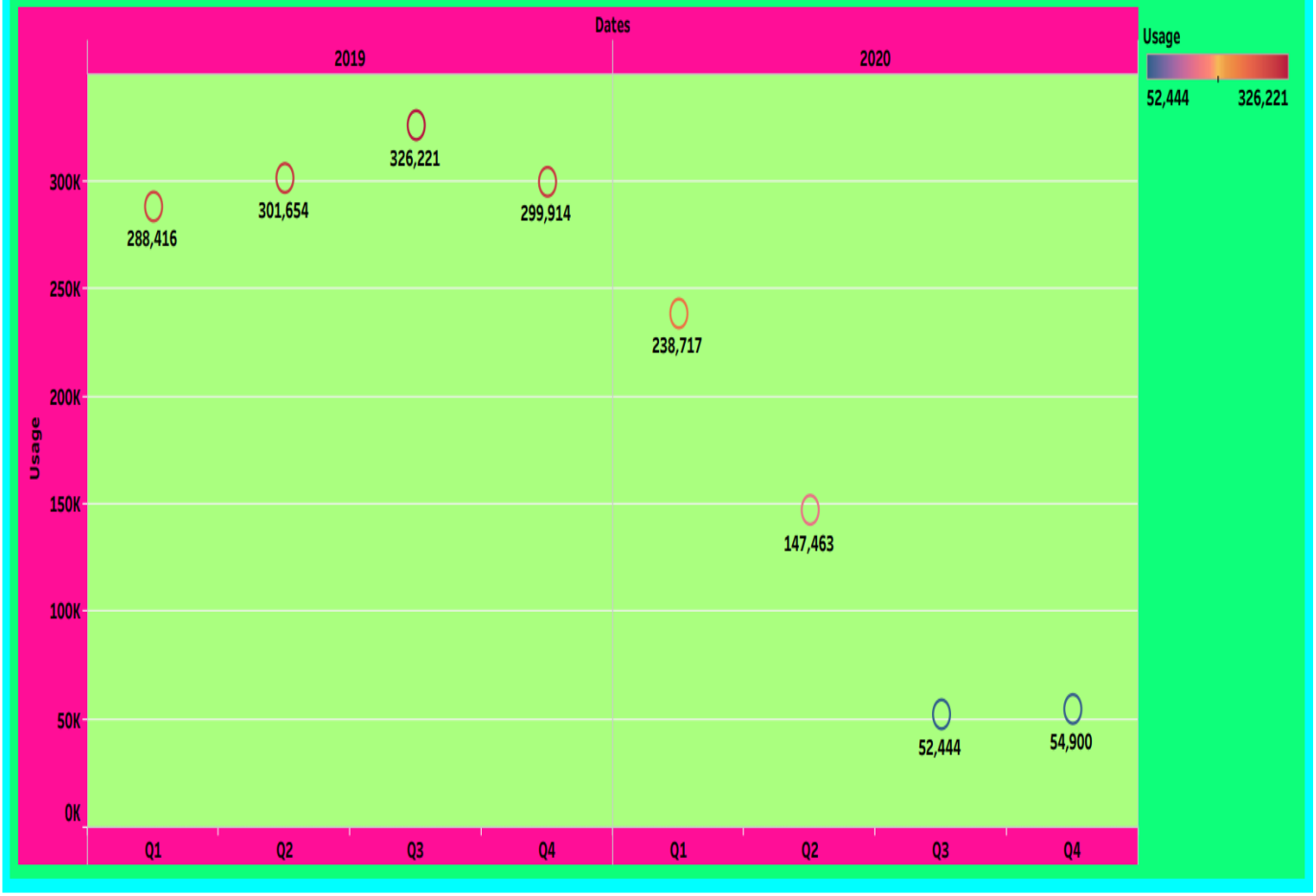

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Plot defines BOTTOM Consumptio..

In Year 2019 , Electricity Consumption in IND..

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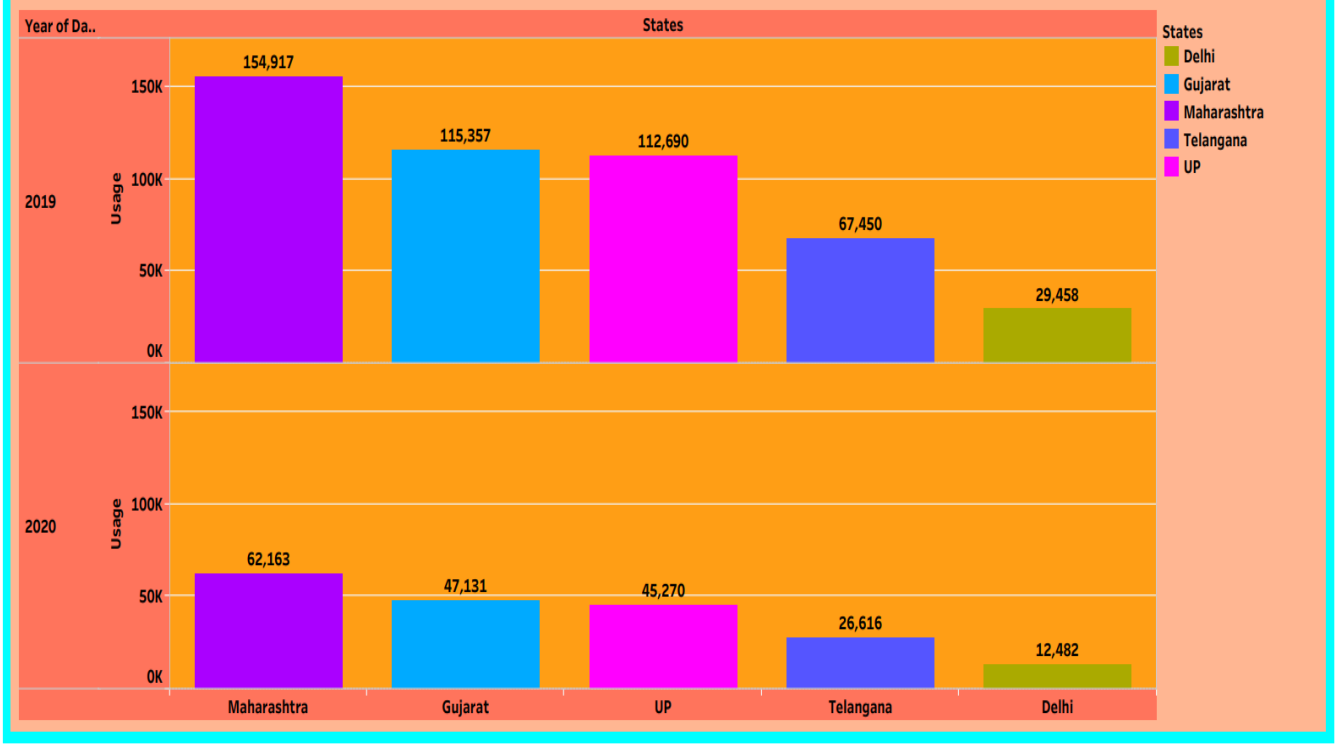

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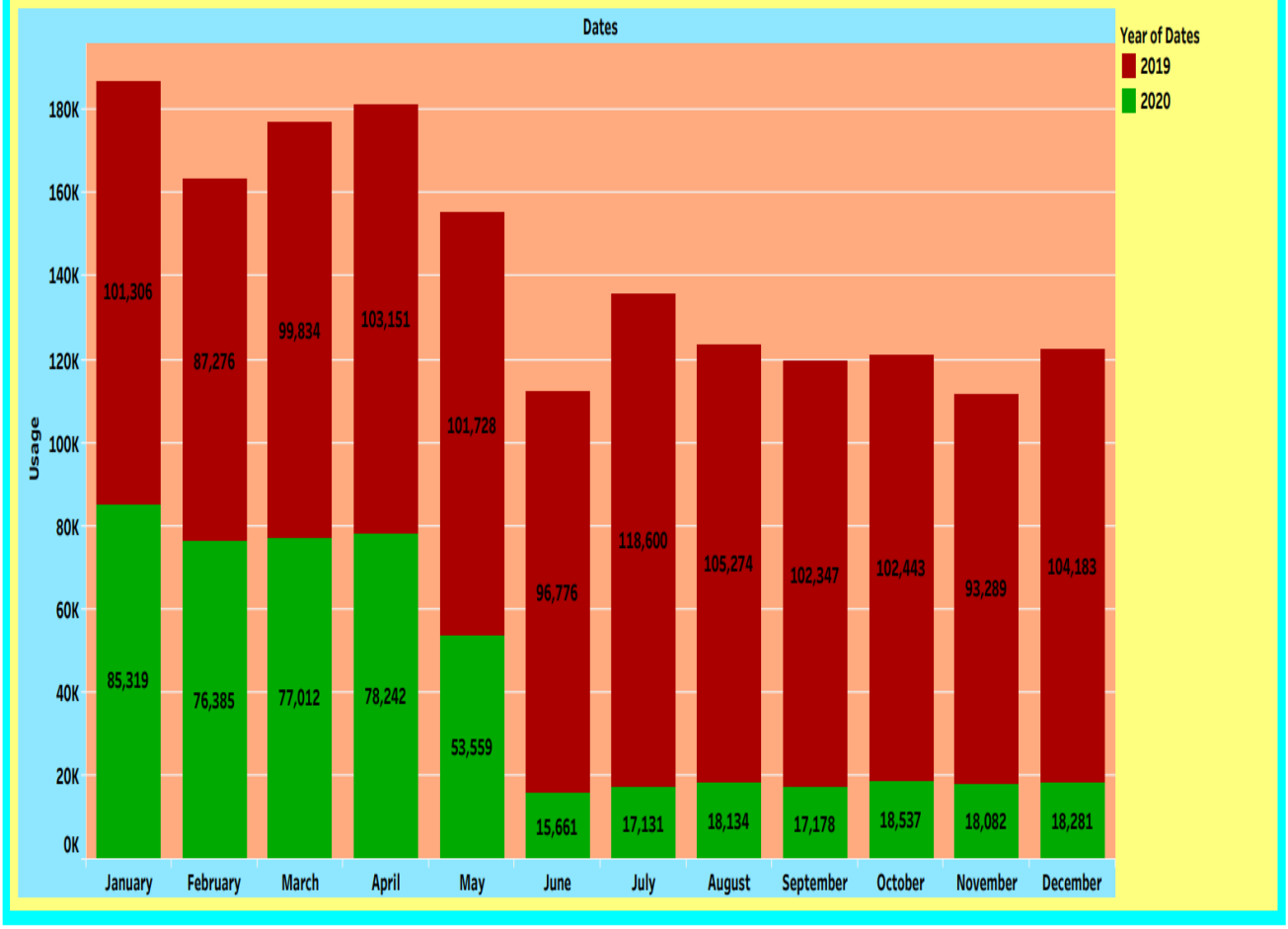
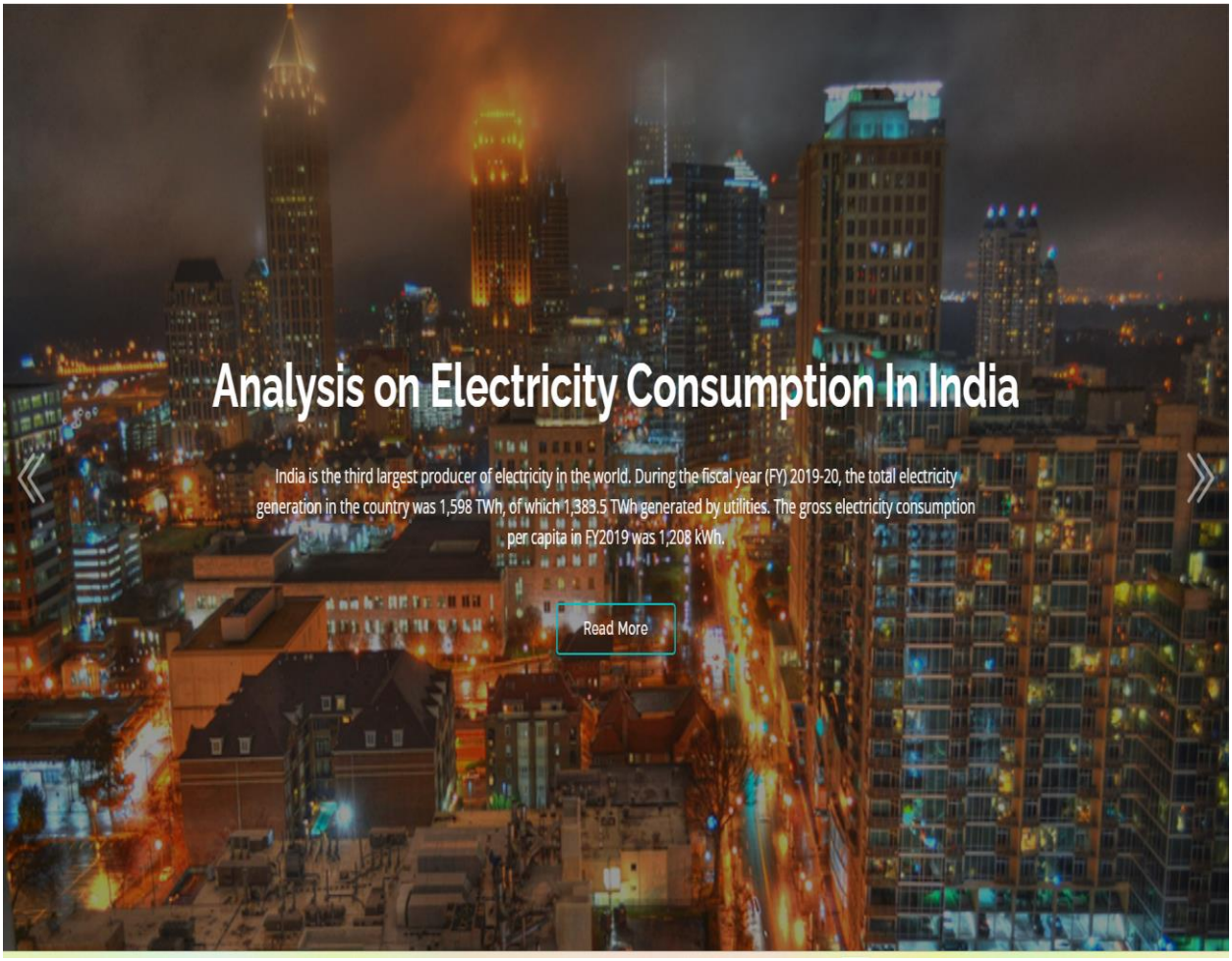
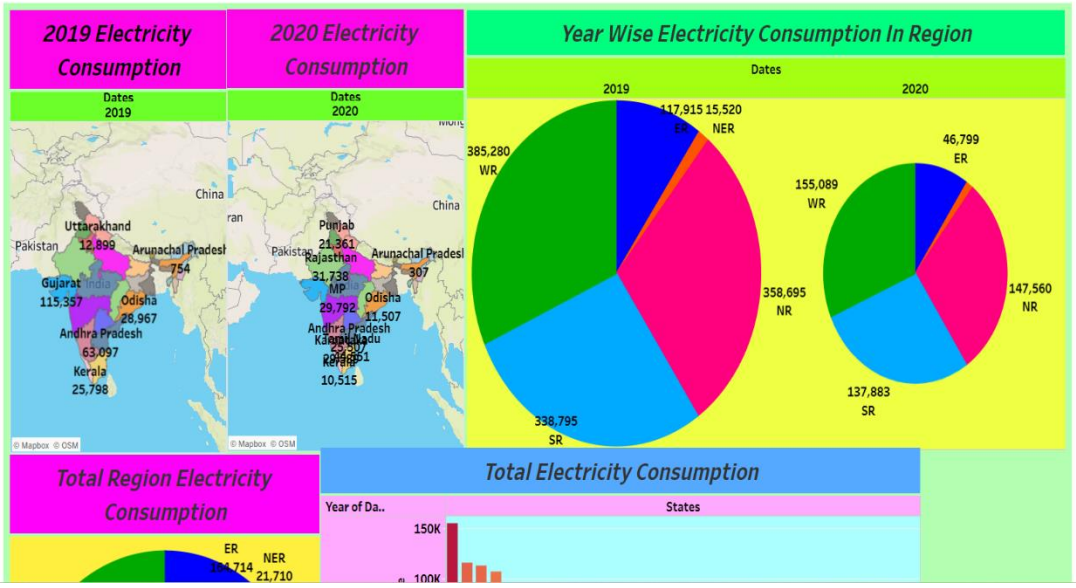


WEB INTEGRATION

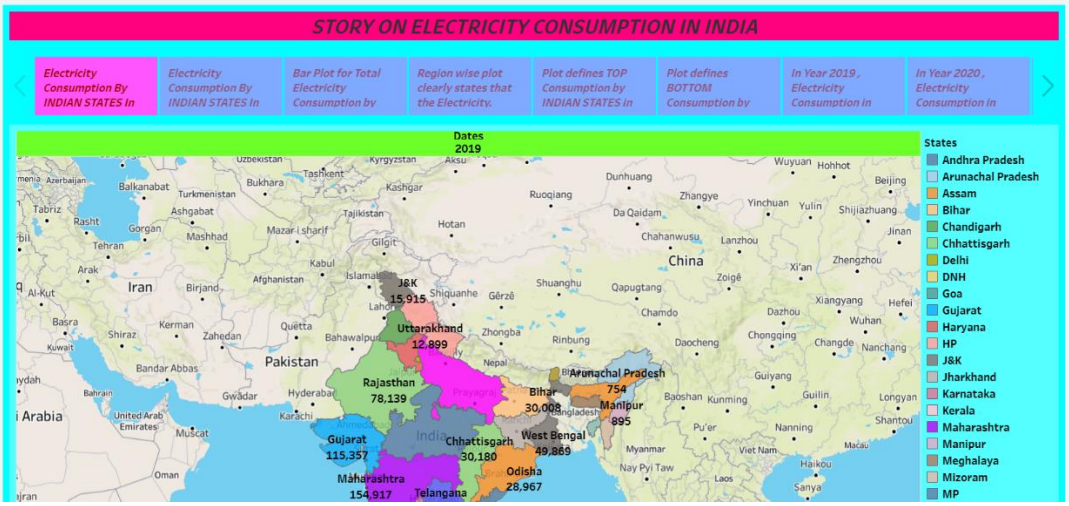


DASHBOARD



ELECTRICITY CONSUMPTION ANALYSIS
HOME DASHBOARD STORY VISUALIZATIONS CONCLUSION

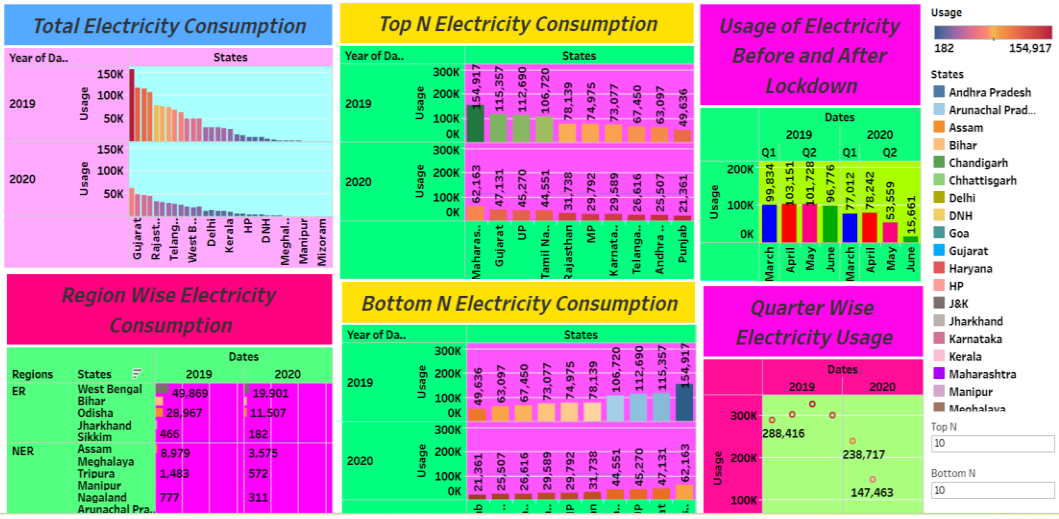
STORY



ELECTRICITY CONSUMPTION ANALYSIS

HOME DASHBOARD STORY VISUALIZATIONS CONCLUSION

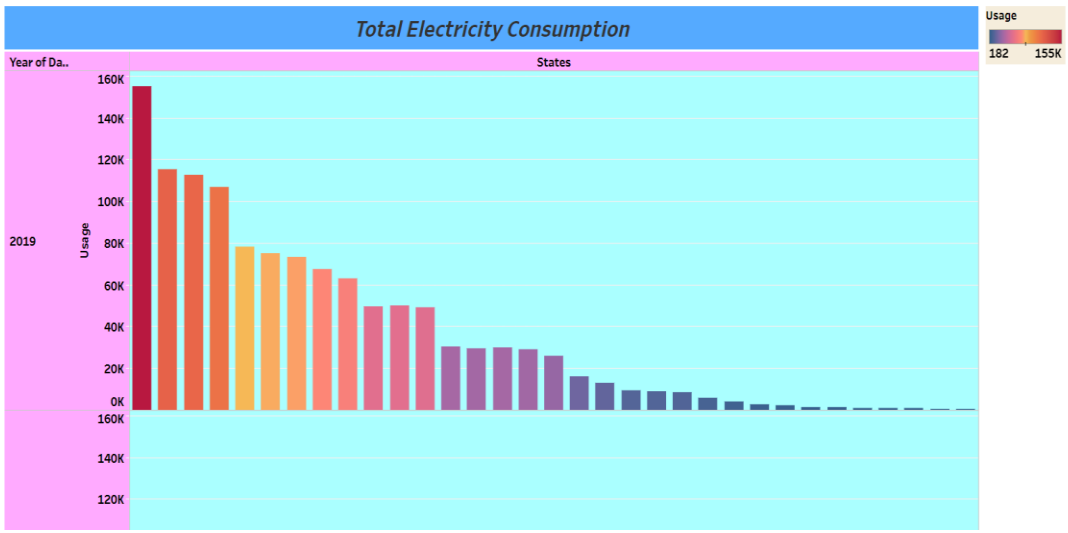
VISUALIZATIONS



ELECTRICITY CONSUMPTION ANALYSIS

HOME DASHBOARD STORY VISUALIZATIONS CONCLUSION

CONCLUSION

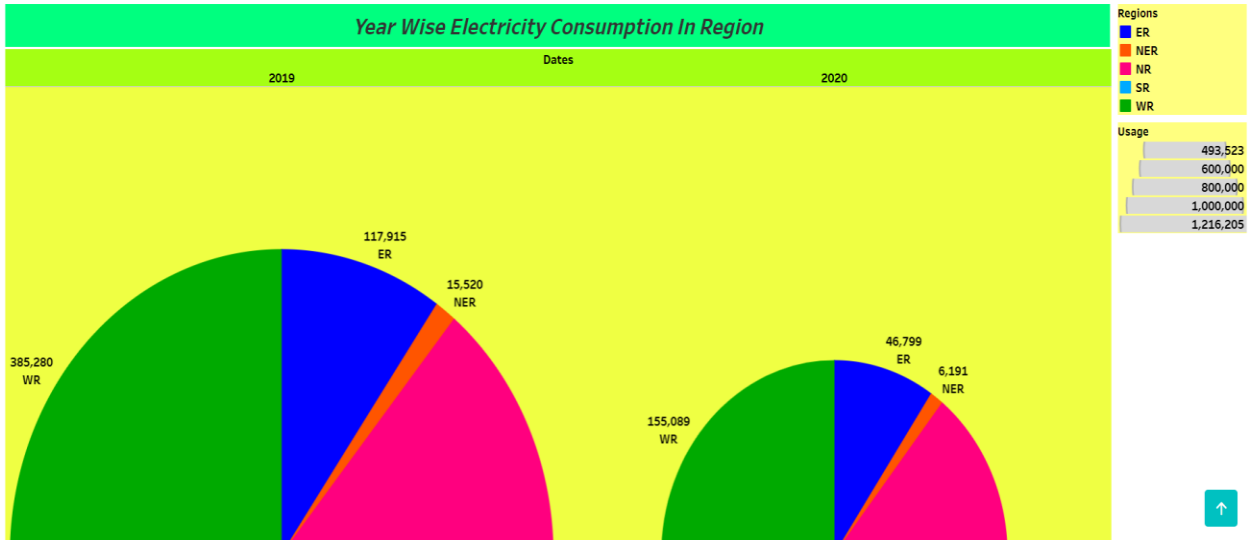


ELECTRICITY CONSUMPTION ANALYSIS

HOME DASHBOARD STORY VISUALIZATIONS CONCLUSION

Electricity Consumption in Quarters

*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.

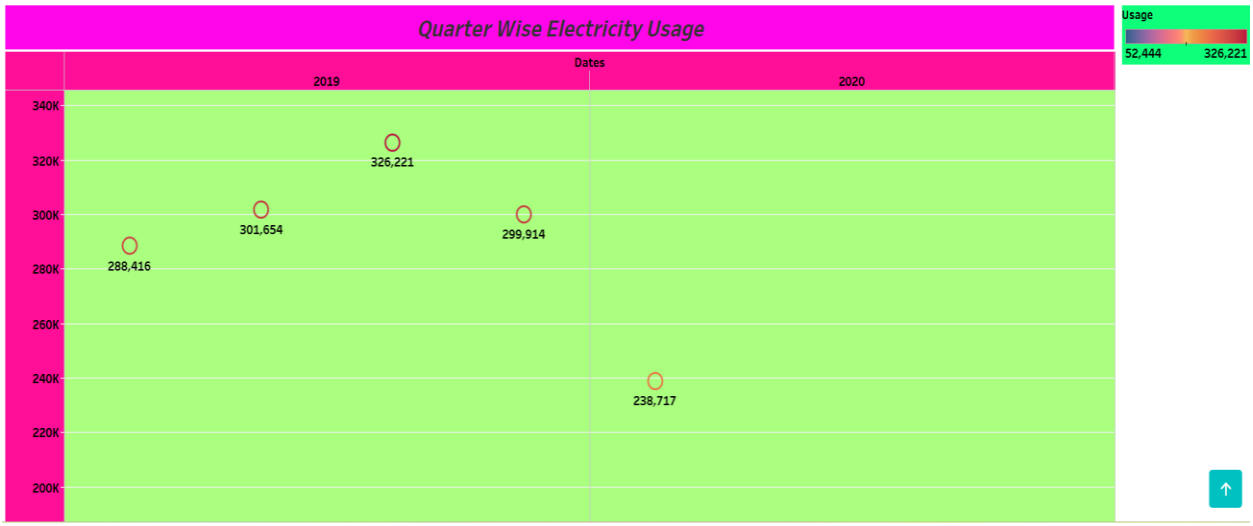


ELECTRICITY CONSUMPTION ANALYSIS

HOME DASHBOARD STORY VISUALIZATIONS CONCLUSION

Electricity Consumption Stats.

*Maharastra 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.



ADVANTAGES OF ELECTRICITY CONSUMPTION:

- Reliable and uninterrupted power supply runs the equipment efficiently and continuously.
- Use Solar panels for better power supply.
- Increased operational efficiency.
- Self-regulation of the building's smart systems, providing future savings.
- Reduced electricity usage saves money and increases energy security.
- Reduced electricity usage reduces the pollution that is emitted from non-renewable sources of energy.
- Using solar panels allows us to purchase a smaller and less expensive system.
- Purchase energy-efficiency electric systems and operate them efficiently.
- To save electricity, switch of the appliances which are not in use.
- Self-consumption of electricity results in the increased autonomy and reduced costs.
- Improving energy efficiency can lower individual utility bills, create jobs, help stabilize electricity prices and volatility.
- Relatively low maintenance cost.

- Hydroelectric stations are inexpensive to operate.
- Hydroelectricity produces no gas emissions or waste.

DISADVANTAGES OF ELECTRICITY CONSUMPTION:

- More expensive than gasoline.
- More power plants and more pollution.
- Damming can cause loss of land suitable for agriculture as well as recreation.
- Power plants emit Carbon-di-oxide that causes global warming.
- Over use of electricity leads to financial stress.
- Sudden shut down of electricity leads to stress due to the work undone.
- An electric vehicle is not completely emission free.
- Hydroelectric natural seasonal changes in river and ecosystems can be destroyed.
- There are limited number of feasible sites for a large number of dams.
- Construction costs of large -scale hydroelectric projects are high.
- There is a risk of electrical fires and shock if it is not handled properly.

APPLICATIONS:

The main areas where the electricity consumption is high and where the solutions are required is as follows;

- ✓ Residential areas
- ✓ Commercial sectors
- ✓ Industrial fields
- ✓ Transportation
- ✓ Chemical Industries
- ✓ Petroleum and Coal Industries
- ✓ Paper Industries
- ✓ Primary Metals Industries
- ✓ Agriculture sectors
- ✓ Hospitals and Engineering fields
- ✓ In Outdoors such as Street lights
- ✓ In Space especially in Satellite and Probes.

CONCLUSION:

On analyzing the Electricity Consumption in India from Jan 2019 till 5th December 2020, it is clear that the Electricity consumption is high in the Year 2019 compared to the Year 2020.

This is due to the lockdown during the COVID-19 pandemic. At this period, the Industrial and Institutional sectors were closed and people were allowed to work only from home, which leads to the reduced usage of electricity at industrial sectors and increased usage of electricity at residential areas.

During lockdown, schools were closed and the students were forced to attend online classes, which leads to over usage of mobile phones and this situation leads to over usage of electricity.

There is positive as well as negative impacts in electricity consumption. During lockdown, the electricity consumption has been reduced resulting in saving of electricity.

SAVE ELECTRICITY TODAY;

SAVE FUTURE TOMORROW.

FUTURE SCOPE:

- India's future prosperity will hinge on affordable, clean and reliable energy and the scope for further growth in energy demand and infrastructure is huge.

India is the world's third largest electricity consuming country. As India recovers from Covid-induced slump in 2020, it is re-entering a very dynamic period in its electricity development. To meet growth in electricity demand over the next twenty years, India will need to add a power system, the size of the European Union, to what it has now.

- India has a wide range of possible energy futures before it.

This maps out the possible energy futures for India. This report includes the aims of quadrupling renewable electricity capacity by 2030, more than doubling the share of natural gas in the energy mix, enhancing energy efficiency and transport infrastructure, increasing domestic coal output, and reducing reliance on imports. Our aim is to provide a coherent framework to consider India's choices and their implications.

- ✓ Stated Policies Scenario
- ✓ India Vision Case
- ✓ Delayed Recovery Scenario
- ✓ Sustainable Development Scenario

- Covid-19 will leave lasting scars.

Prior to the global pandemic, India's energy demand was projected to increase by almost 50% between 2019 and 2030.

- ## The Indian Electricity sector is on the cusp of a solar-powered revolution while the raising demand for air-conditioning pushes up the peak in power demand.

India's electricity demand is set to increase much more rapidly than its overall energy demand. Solar power is set for explosive growth in India, matching coal's share in the Indian power generation mix within two decades in the STEPS – or even sooner in the Sustainable Development Scenario. Energy efficiency measures targeting both cooling appliances and buildings avoid around a quarter of the potential growth in consumption in the STEPS, but electricity demand for cooling still increases six-fold by 2040, creating a major early evening peak in electricity use.

- ## India requires a massive increase in power system flexibility.

India has a higher requirement for flexibility in its power system operation than almost any other country in the world. The pace of change in the electricity sector puts a huge premium on robust grids and other sources of flexibility, with India becoming a global leader in battery storage.

Despite the thrust on transforming electricity supply, India's per capita electricity consumption remains amongst the lowest in the world, with vast latent demand and high room for efficiency. Electricity demand depends on the number of variables, some with deep uncertainty into the future. This is especially true for India, with multiple perspectives on future GDP growth rates, demographics, role of manufacturing, household-level access and electrification of service demands such as cooking and mobility.

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>Electricity Consumption 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,600,600
i,700,700i|Raleway: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/animate.css/animate.min.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/swiper/swiper-bundle.min.css" rel="stylesheet">

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

  <!-- =======================================================
  * Template Name: Alstar
  * Updated: Mar 10 2023 with Bootstrap v5.2.3
```

```
  * Template URL: https://bootstrapmade.com/alstar-free-parallax-bootstrap-
template/
  * Author: BootstrapMade.com
  * License: https://bootstrapmade.com/license/
  ======================================================== -->
</head>

<body>

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

      <div class="logo">
        <h1><a href="index.html">Electricity Consumption Analysis</a></h1>
        <!-- Uncomment below if you prefer to use an image logo -->
        <!-- <a href="index.html"><img src="assets/img/logo.png" alt=""
class="img-fluid"></a>-->
      </div>

      <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">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="#team">Conclusion</a></li>

            </ul>
          </li>

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

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

  <!-- ======= Hero Section ======= -->
  <section id="hero">
    <div class="hero-container">
      <div id="heroCarousel" data-bs-interval="5000" class="carousel slide
carousel-fade" data-bs-ride="carousel">
```

```
        <ol class="carousel-indicators" id="hero-carousel-indicators"></ol>

        <div class="carousel-inner" role="listbox">

          <!-- Slide 1 -->
          <div class="carousel-item active" style="background-image:
url(assets/img/Electricity\ usage.jpg);">
            <div class="carousel-container">
              <div class="carousel-content">

                <h2 class="animate__animated animate__fadeInDown">Analysis on
Electricity <span>Consumption In India</span></h2>
                <p class="animate__animated animate__fadeInUp">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.  </p>
                <a href="#about" class="btn-get-started scrollto
animate__animated animate__fadeInUp">Read More</a>
              </div>
            </div>
          </div>



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

        </div>

        <a class="carousel-control-prev" href="#heroCarousel" role="button" data-
bs-slide="prev">
          <span class="carousel-control-prev-icon bi bi-chevron-double-left"
aria-hidden="true"></span>
        </a>

        <a class="carousel-control-next" href="#heroCarousel" role="button" data-
bs-slide="next">
          <span class="carousel-control-next-icon bi bi-chevron-double-right"
aria-hidden="true"></span>
        </a>

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

```
  <main id="main">

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

        <div class="section-title">
          <h2>Dashboard</h2>
          <p><div class='tableauPlaceholder' id='viz1681116946944'
style='position: relative'><noscript><a href='#'><img alt='Dashboard 1 '
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;R3&#47;R3MW2Y5M
N&#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;R3MW2Y5MN' /> <param
name='toolbar' value='yes' /><param name='static_image'
value='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;R3&#47;R3MW2Y
5MN&#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-GB'
/></object></div>                <script
type='text/javascript'>                    var divElement =
document.getElementById('viz1681116946944');                    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='1577px';}
    var scriptElement =
document.createElement('script');                    scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';                    vizEle
ment.parentNode.insertBefore(scriptElement,
vizElement);                </script></p>
        </div>


        </div>
      </div>

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

```
    <!-- ======= Services Section ======= -->
    <section id="services" class="services section-bg">
      <div class="container">

        <div class="section-title">
          <h2>Story</h2>
          <p><div class='tableauPlaceholder' id='viz1681118082891'
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;El&#47;Electric
ityConsumptionStory&#47;STORYONELECTRICITYCONSUMPTIONININDIA&#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='ElectricityConsumptionStory&#47;STORYONELECTRICITYCONSUMPTIONININDIA'
/><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;El&#47;Electr
icityConsumptionStory&#47;STORYONELECTRICITYCONSUMPTIONININDIA&#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-GB' /></object></div>                <script
type='text/javascript'>                    var divElement =
document.getElementById('viz1681118082891');                    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';                    vizEle
ment.parentNode.insertBefore(scriptElement,
vizElement);                </script></p>
        </div>



      </div>
    </section><!-- End Services Section -->
```

```
    <!-- ======= Portfolio Section ======= -->
    <section id="portfolio" class="portfolio">
      <div class="container">

        <div class="section-title">
          <h2>Visualizations</h2>
          <p><div class='tableauPlaceholder' id='viz1681119399572'
style='position: relative'><noscript><a href='#'><img alt='Dashboard 4 '
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Vi&#47;Visualiz
ation_16811192718380&#47;Dashboard4&#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='Visualization_16811192718380&#47;Dashboard4' /><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;Vi&#47;Visual
ization_16811192718380&#47;Dashboard4&#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-GB' /></object></div>                <script
type='text/javascript'>                    var divElement =
document.getElementById('viz1681119399572');                    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='2777px';}
    var scriptElement =
document.createElement('script');                    scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';                    vizEle
ment.parentNode.insertBefore(scriptElement,
vizElement);                </script></p>
        </div>

                </div>

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

```
    <!-- ======= Team Section ======= -->
    <section id="team" class="team">
      <div class="container">

        <div class="section-title">
          <h2>Conclusion</h2>
          <p><div class='tableauPlaceholder' id='viz1681120154750'
style='position: relative'><noscript><a href='#'><img alt='Total Electricity
Consumption '
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;To&#47;TotalEle
ctricityConsumption_16811200443590&#47;TotalElectricityConsumption&#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='TotalElectricityConsumption_16811200443590&#47;TotalElectricityConsumption
' /><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;To&#47;TotalE
lectricityConsumption_16811200443590&#47;TotalElectricityConsumption&#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-GB'
/></object></div>                <script
type='text/javascript'>                    var divElement =
document.getElementById('viz1681120154750');                    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';                    vizEle
ment.parentNode.insertBefore(scriptElement,
vizElement);                </script></p>
        </div>


                <h4>Electricity Consumption Stats.</h4>
                <span>*Maharashtra is the Highest Electricity consumption user of
India.</span>
                <span>*Gujarat is the Second Highest Electricity consumption user
of India.</span>
                <span>*Sikkim is the Lowest Electricity consumption user of
India.</span>
              </div>
```

```
            </div>
          </div>

         <p><div class='tableauPlaceholder' id='viz1681120635110'
style='position: relative'><noscript><a href='#'><img alt='Quarter Wise
Electricity Usage '
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Qu&#47;Quarterw
iseElectricityUsage&#47;QuarterWiseElectricityUsage&#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='QuarterwiseElectricityUsage&#47;QuarterWiseElectricityUsage'
/><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;Qu&#47;Quarte
rwiseElectricityUsage&#47;QuarterWiseElectricityUsage&#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-GB' /></object></div>                <script
type='text/javascript'>                    var divElement =
document.getElementById('viz1681120635110');                    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';                    vizEle
ment.parentNode.insertBefore(scriptElement,
vizElement);                </script></p>
                <h4>Electricity Consumption in Quarters</h4>
                <span>*Electricity Consumption in 2019 for Quarter 3 was
Highest.</span>
                <span>*Electricity Consumption in 2019 for Quarter 1 was
Lowest.</span>
                <span>*Electricity Consumption in 2020 for Quarter 3 was
Lowest.</span>
                <span>*Electricity Consumption in 2020 for Quarter 1 was
Highest.</span>
              </div>
            </div>
          </div>

          <p><div class='tableauPlaceholder' id='viz1681120948511'
style='position: relative'><noscript><a href='#'><img alt='Year Wise Electricity
Consumption In Region '
```

```
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;El&#47;ElectricityConsumptionRegionwise&#47;YearWiseElectricityConsumptionInRegion&#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='ElectricityConsumptionRegionwise&#47;YearWiseElectricityConsumptionInRegion' /><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;El&#47;ElectricityConsumptionRegionwise&#47;YearWiseElectricityConsumptionInRegion&#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' /><param name='filter' value='publish=yes' /></object></div>                <script type='text/javascript'>                    var divElement = document.getElementById('viz1681120948511');                    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></p>
                <h4>Electricity Consumption in Regions</h4>
                <span>*Total Electricity consumption in Western Regions is Highest.</span>
                <span>*Total Electricity Consumption in North Eastern Region is Lowest.</span>
                <span>*Electricity Consumption in 2020 for Quarter 3 was Lowest.</span>
              </div>
            </div>


                </div>

      </div>
    </section><!-- End Team Section -->
  </main><!-- End #main -->

  <!-- ======= Footer ======= -->
  <footer id="footer">
    <div class="footer-top">
```

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

          <div class="col-lg-4 col-md-6">
            <div class="footer-info">
              <h3>Alstar</h3>
              <p class="pb-3"><em>Qui repudiandae et eum dolores alias sed ea.
Qui suscipit veniam excepturi quod.</em></p>
              <p>
                A108 Adam Street <br>
                NY 535022, USA<br><br>
                <strong>Phone:</strong> +1 5589 55488 55<br>
                <strong>Email:</strong> info@example.com<br>
              </p>
              <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>

          <div class="col-lg-2 col-md-6 footer-links">
            <h4>Useful Links</h4>
            <ul>
              <li><i class="bx bx-chevron-right"></i> <a href="#">Home</a></li>
              <li><i class="bx bx-chevron-right"></i> <a href="#">About
us</a></li>
              <li><i class="bx bx-chevron-right"></i> <a
href="#">Services</a></li>
              <li><i class="bx bx-chevron-right"></i> <a href="#">Terms of
service</a></li>
              <li><i class="bx bx-chevron-right"></i> <a href="#">Privacy
policy</a></li>
            </ul>
          </div>

          <div class="col-lg-2 col-md-6 footer-links">
            <h4>Our Services</h4>
            <ul>
              <li><i class="bx bx-chevron-right"></i> <a href="#">Web
Design</a></li>
```

```
              <li><i class="bx bx-chevron-right"></i> <a href="#">Web
Development</a></li>
              <li><i class="bx bx-chevron-right"></i> <a href="#">Product
Management</a></li>
              <li><i class="bx bx-chevron-right"></i> <a
href="#">Marketing</a></li>
              <li><i class="bx bx-chevron-right"></i> <a href="#">Graphic
Design</a></li>
            </ul>
          </div>

          <div class="col-lg-4 col-md-6 footer-newsletter">
            <h4>Our Newsletter</h4>
            <p>Tamen quem nulla quae legam multos aute sint culpa legam noster
magna</p>
            <form action="" method="post">
              <input type="email" name="email"><input type="submit"
value="Subscribe">
            </form>

          </div>

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

    <div class="container">
      <div class="copyright">
        &copy; Copyright <strong><span>Alstar</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/alstar-free-parallax-bootstrap-template/ -->
        Designed by <a href="https://bootstrapmade.com/">BootstrapMade</a>
      </div>
    </div>
  </footer><!-- End Footer -->

  <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/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>
```