

Project Report Template

1. Introduction

1.1 Overview

Electricity Consumption during the COVID – 19 Period as State Wise and Region Wise.

1.2 Purpose

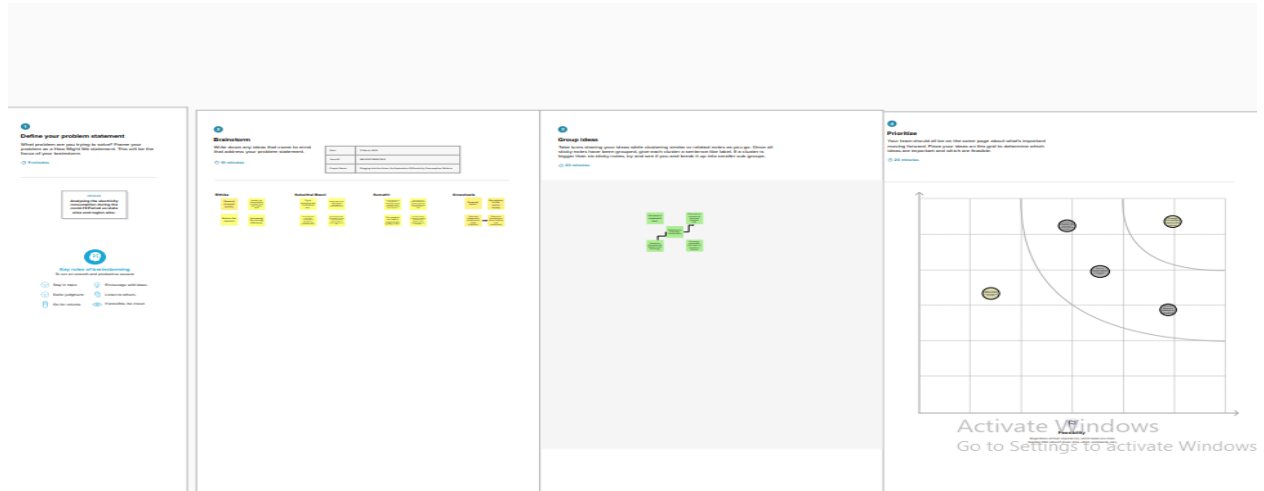
It is used to develop the policies and to promote energy efficiency. We can observe from this to reduce the Consumption of Electricity help us to recover the demand.

2. Problem Definition & Design Thinking

2.1 Empathy Map



2.2 Ideation & Brainstorming Map



3. Data set

https://drive.google.com/file/d/1JxIkHNwXxjFztKq7ad0_KtkukCqTckNy/view?usp=sharing

In Dataset Consumption.csv data is in the form of a time series for a period of 24 months beginning from 2nd Jan 2019 till 5th December 2020. Columns contains States, Regions, Latitude, Longitude, Dates and Usage. The dataset has been scraped from the weekly energy reports of POSOC.

Fields Include:

States - Indian States

Regions- States in Regions on Indian Map

Latitude - States in Regions on Indian Map

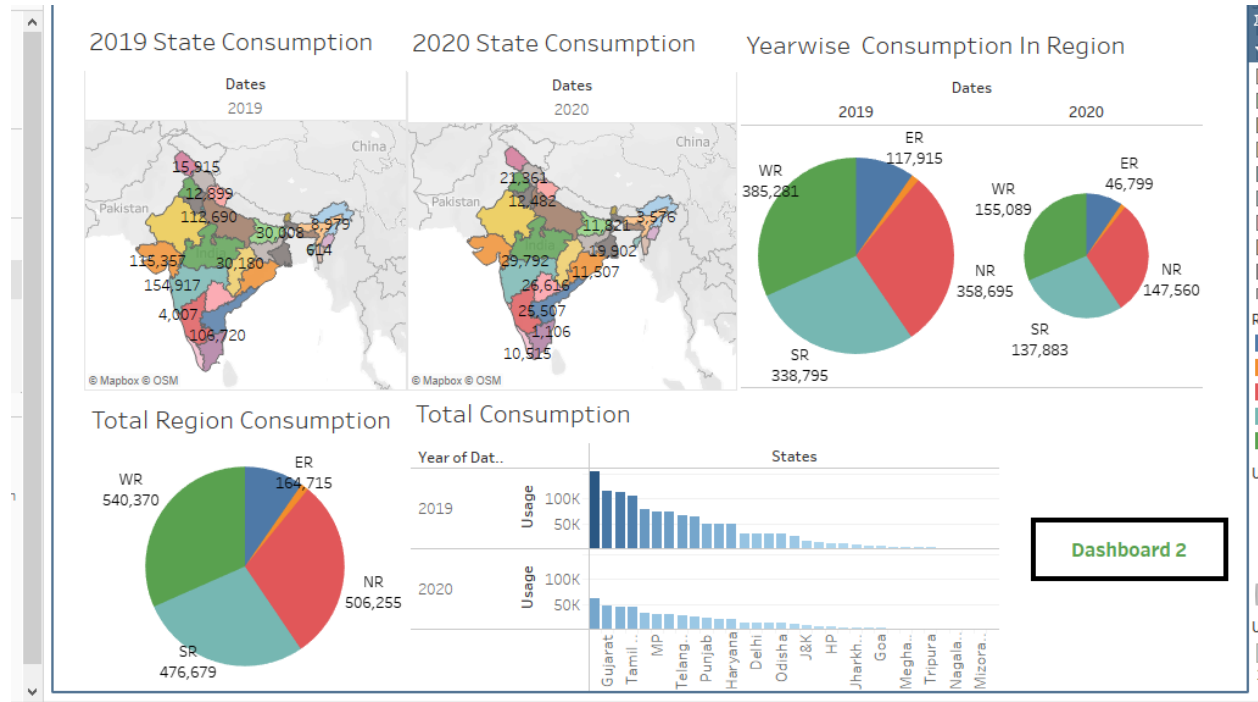
Longitude - Geographical Coordinate of States

Dates - Dates of Usage

Usage - Power consumed in Mega Units (MU)

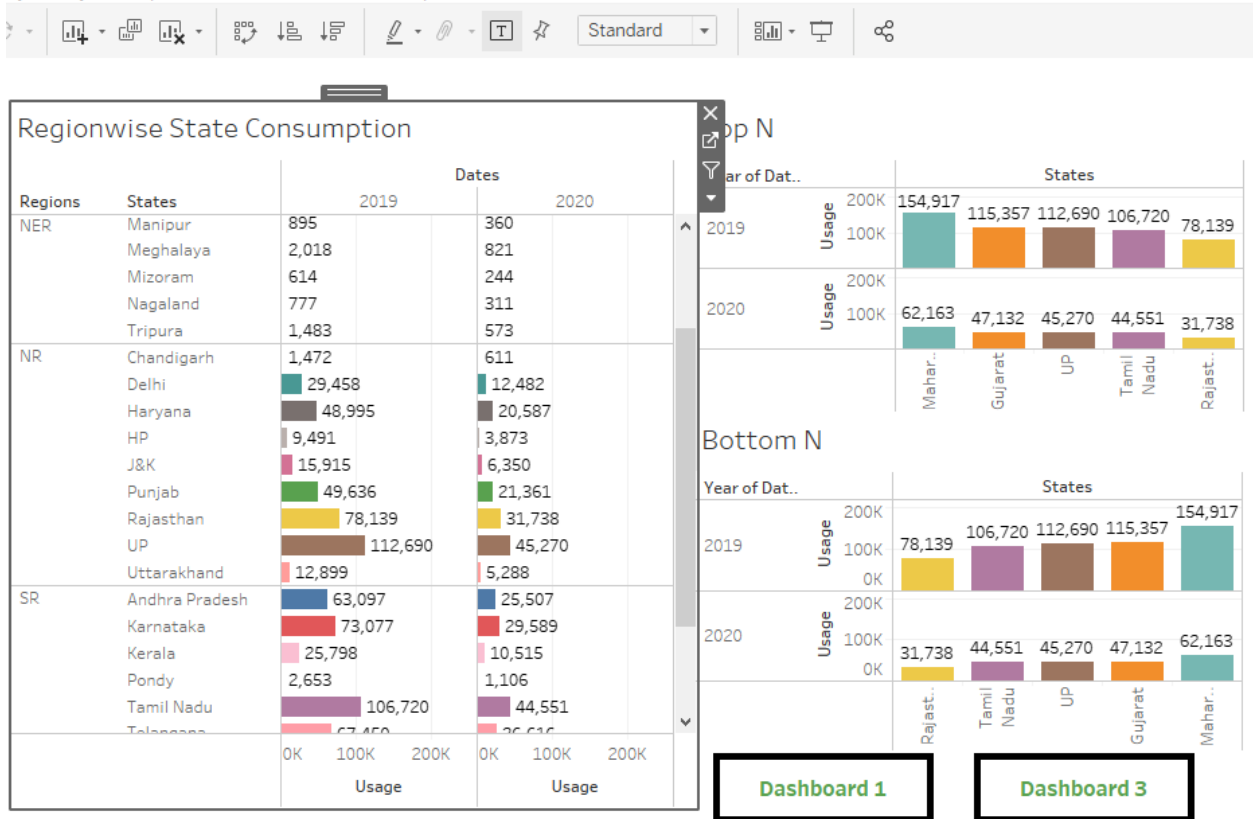
4. Result

Dashboard 1



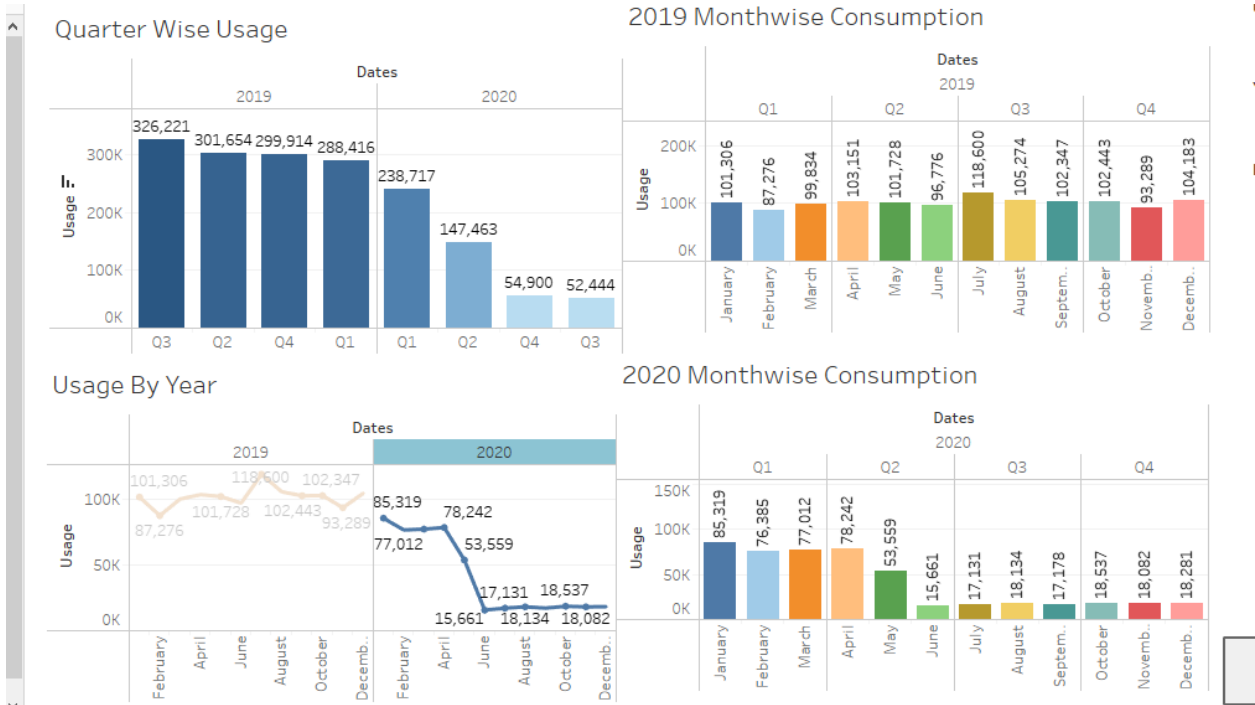
Dashboard 2

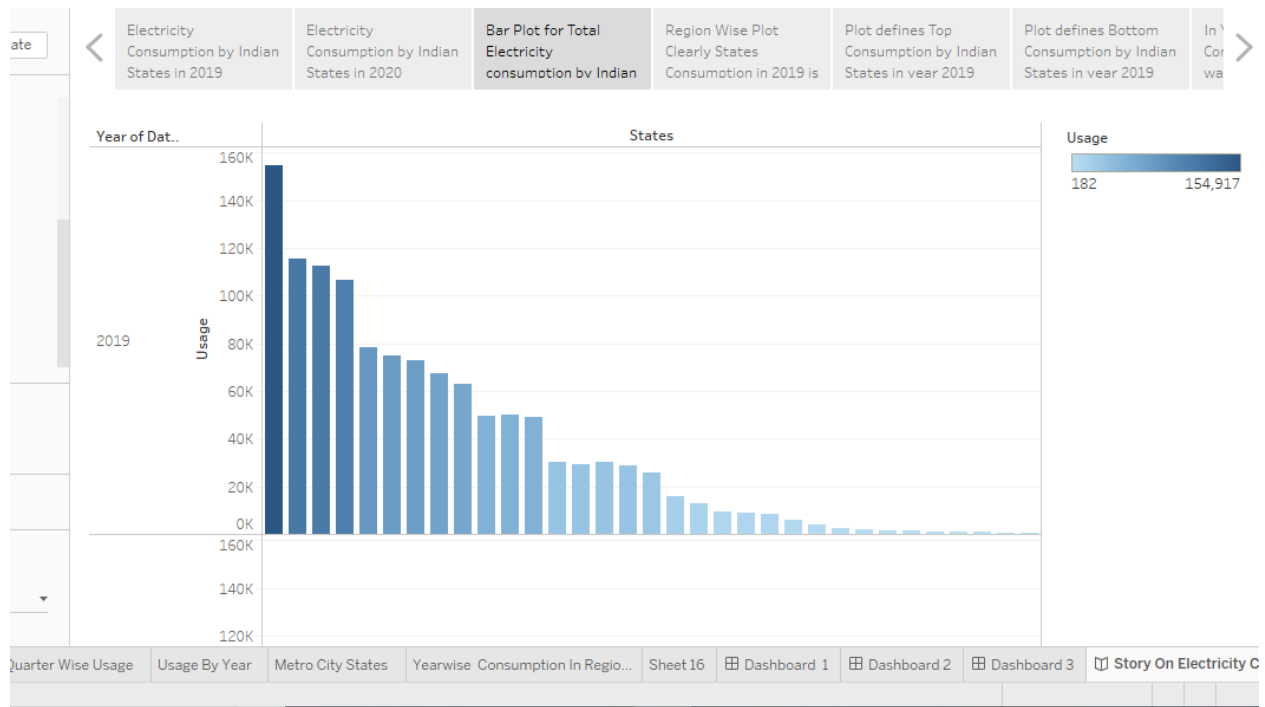
File Edit Analysis Map Format Server Window Help



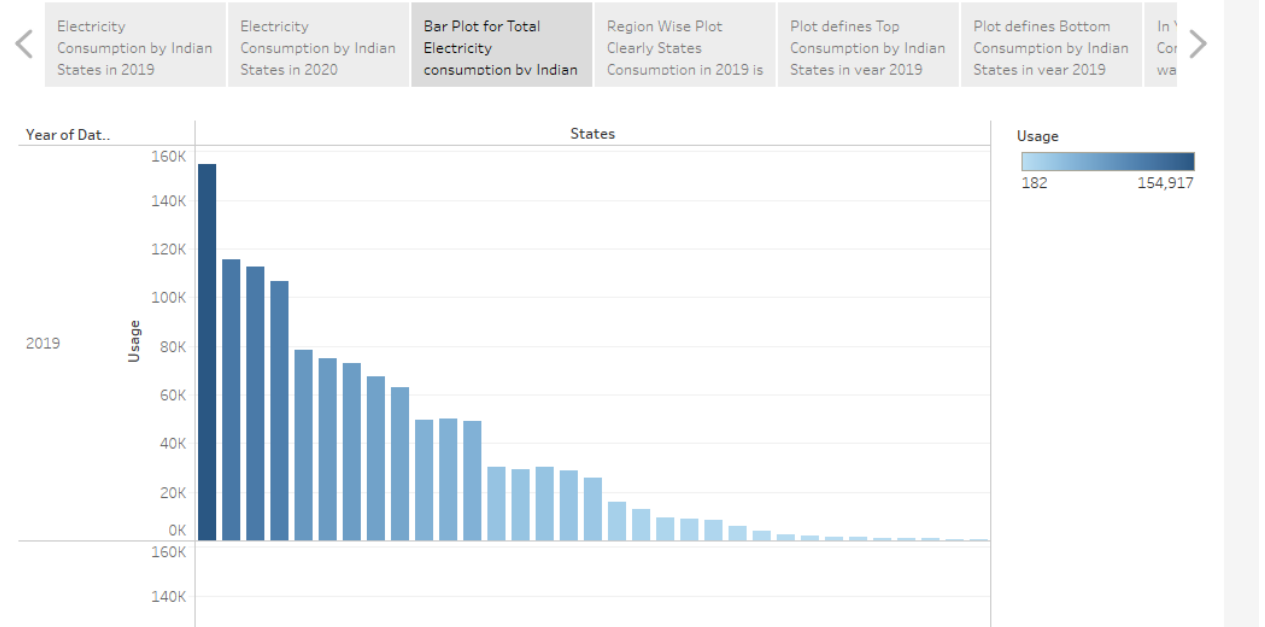
Site Consumption | Quarter Wise Usage | Usage By Year | Metro City States | Yearwise Consumption In Region | Sheet 16 | Dashboard 1 | Dashboard 2

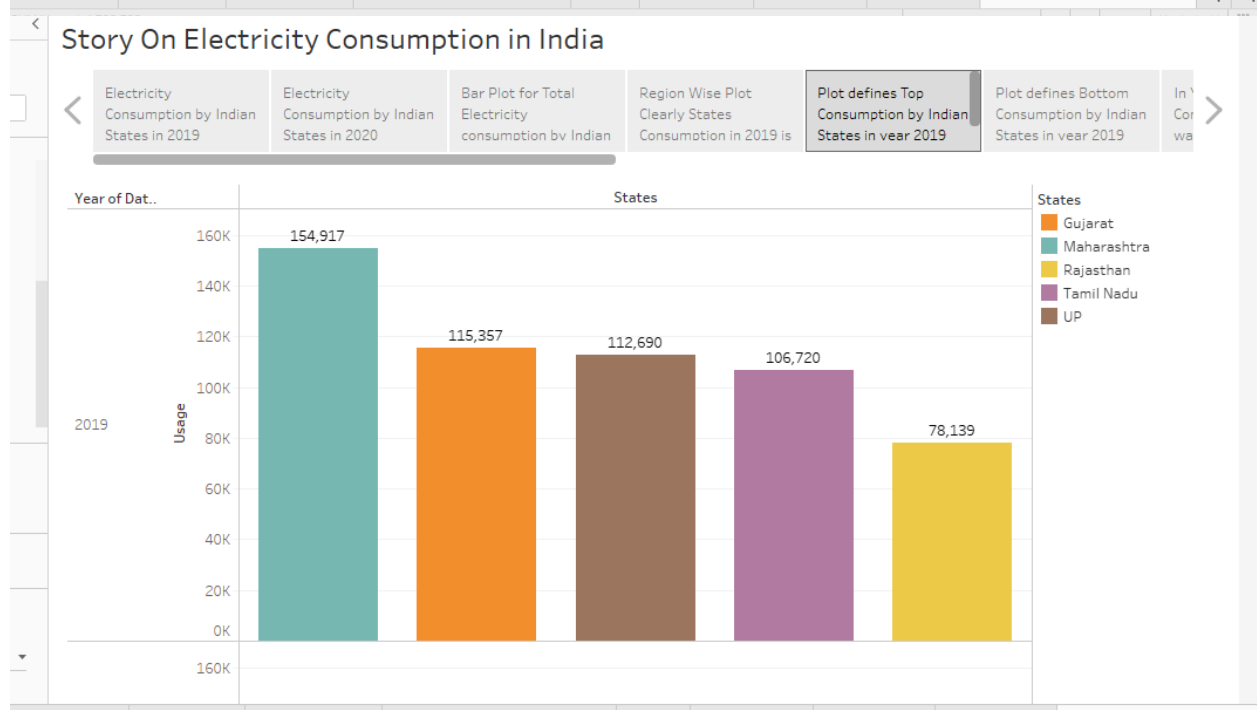
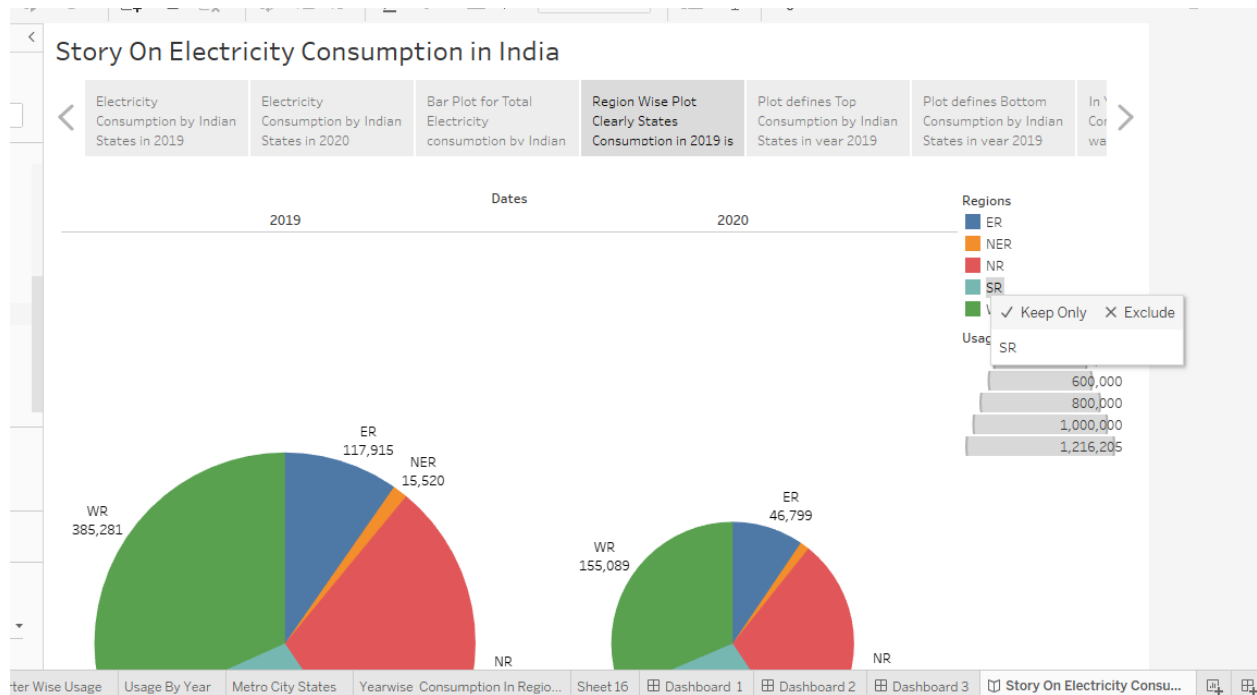
Dashboard 3



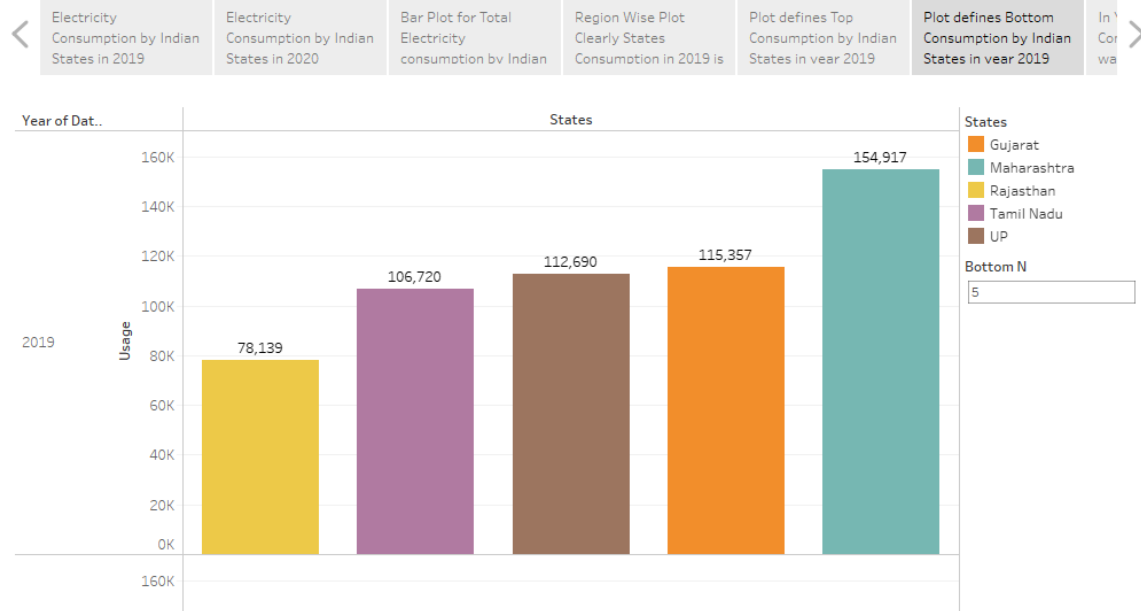


Story On Electricity Consumption in India

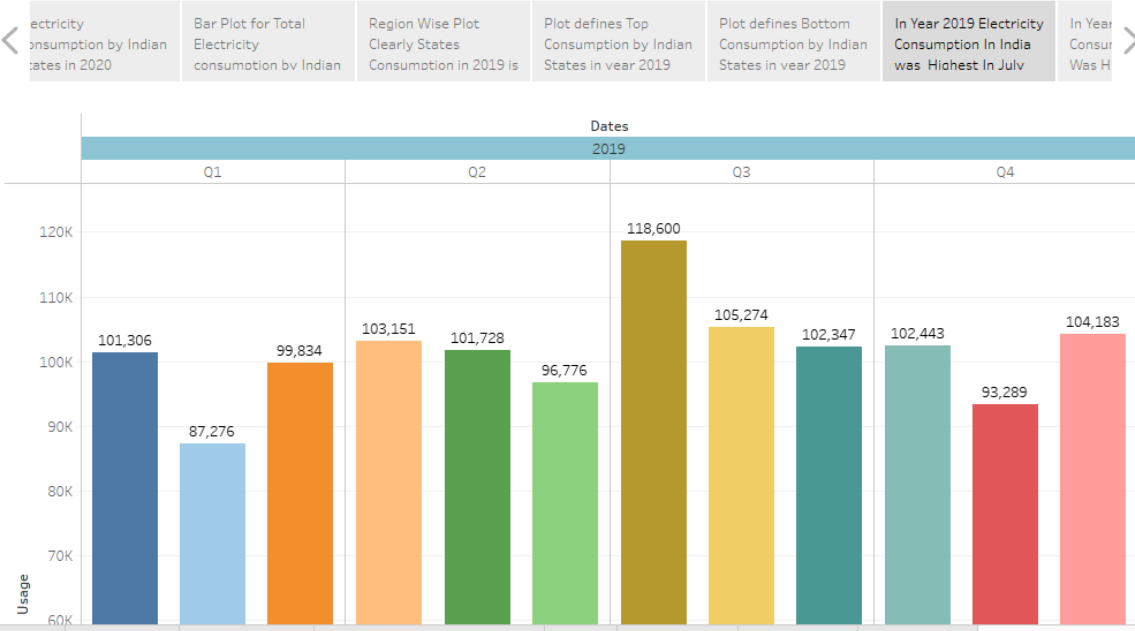




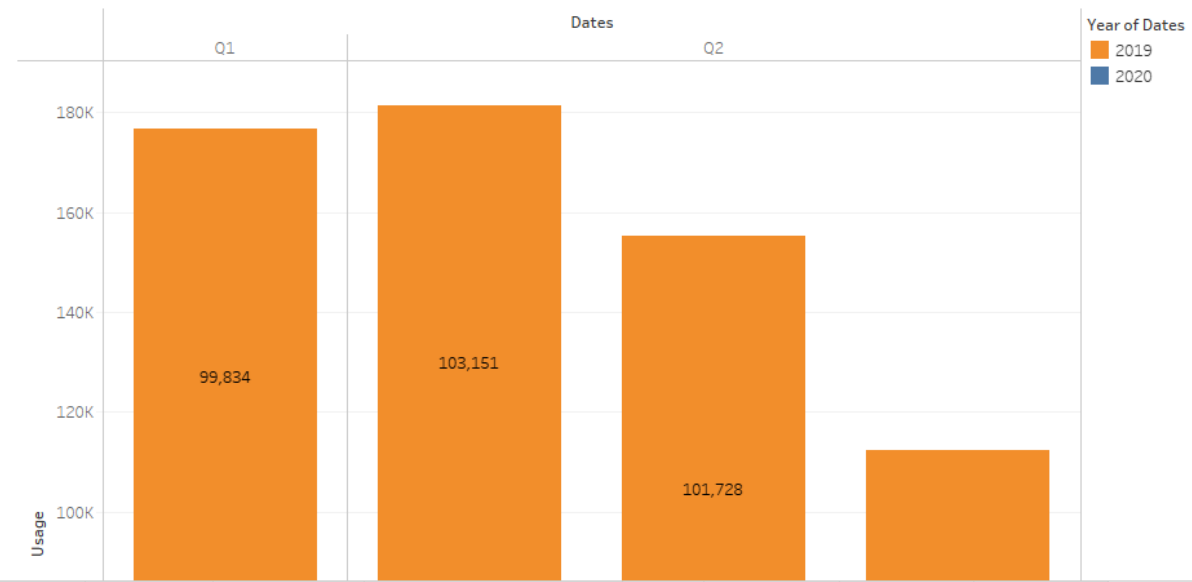
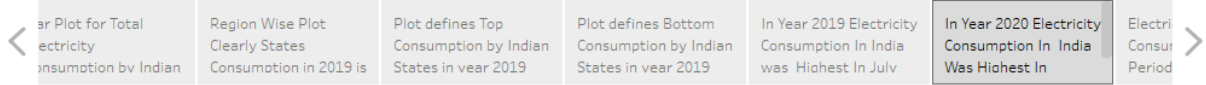
Story On Electricity Consumption in India

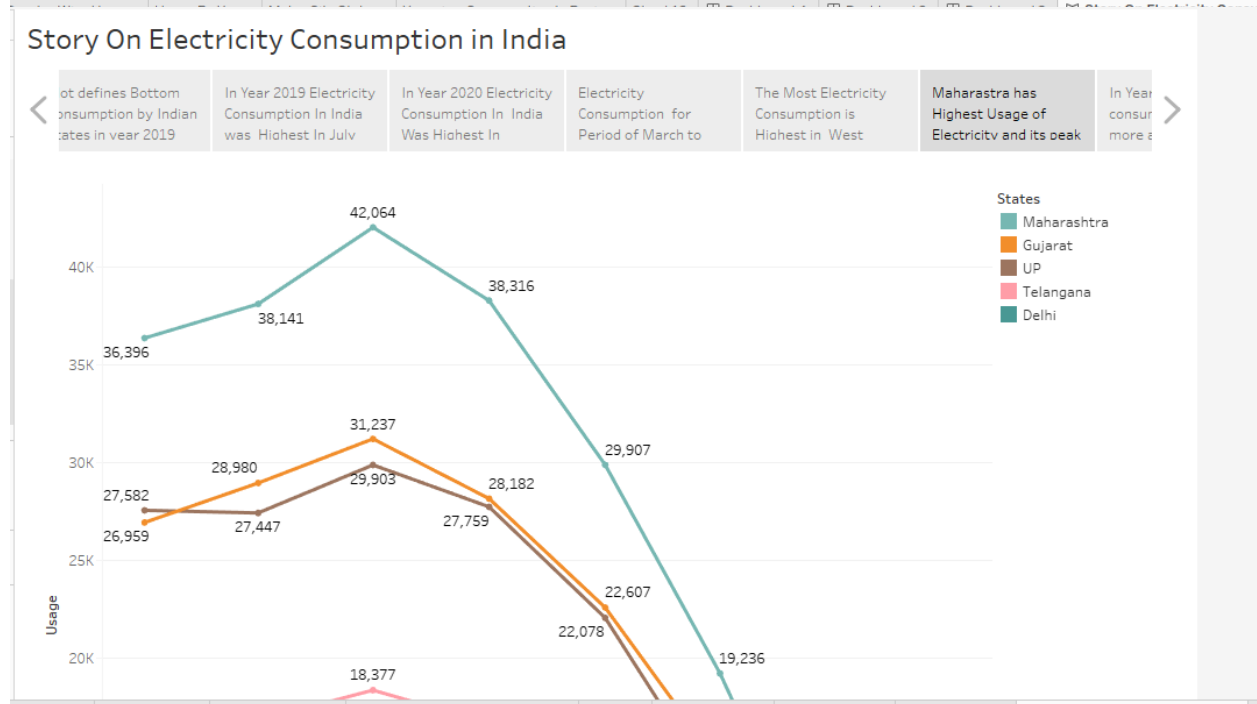
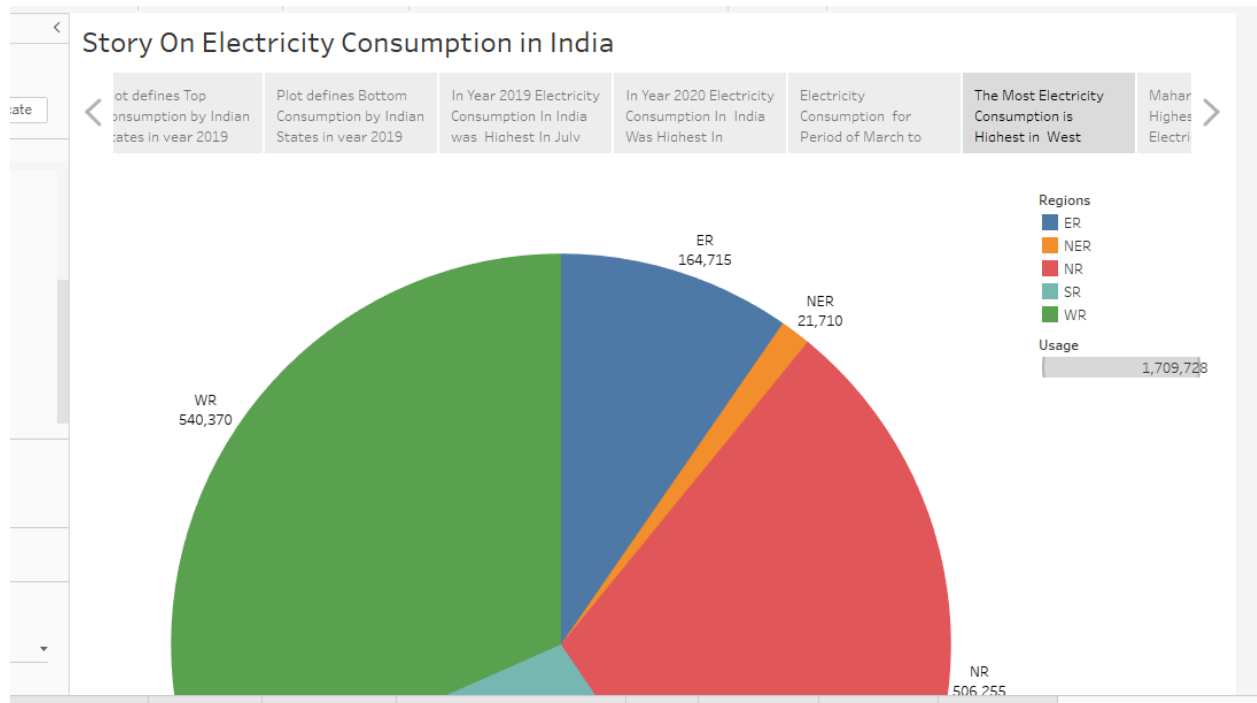


Story On Electricity Consumption in India



Story On Electricity Consumption in India





5. Advantages & Disadvantages

ADVANTAGES

- ❖ The major advantages of this analysis are to develop Policies.
- ❖ Precaution for investment.
- ❖ To determine whether the consumption is high or low in which State or Region.
- ❖ To recover the level of Electricity demand.

DISADVANTAGES

- ❖ Electricity usage increase in residential use.
- ❖ Electricity usage decrease in Industrial and commercial use.
- ❖ Has a surplus power generation capacity but a lack adequate fuel supply and power distribution.
- ❖ Disruptions to the power supply.

6. Applications

- This application helps us to analyze the more data source.
- This application helps us to analyze the different regions in India.
- This help us to identify the consumption where it is high & low.
- This help us to analyze the year wise and month wise consumption variation.

7. Conclusion

We are analyzing through this project the Electricity Consumption is increased & decreased in which State or Region in India.

First, we create a Empathy Map in which say, Think, feel, does etc...

Second, we create a template of Ideation & Brainstorming Map in which the appropriate ideas are given by everyone in the team with the Leader.

Third, Analyzing the consumption by using visual elements such as charts, maps, graphs. This visualization helps us to quickly identify patterns, trends, outliers in the data.

Finally, visualized data can be presented as Dashboard & Story that presents the data in logical and systematic way and also highlight their implications.

8. Future Scope

- India's energy demand was projected to increase by almost 50% between 2019 and 2030.
- Consume electricity by using natural light.
- India will need to add a power system.
- An expanding economy, population, urbanization and industrialization mean that India sees the largest increase in energy demand in future.

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