PROJECT REPORT TEMPLATE

PROJECT: PLUGGING INTO THE FUTURE: An exploration of electricity consumption patterns

1.Introduction:

1.1.Overview:

Whereas electricity consumption represents the amount of electrical energy that has been consumed over a specific time in units of (Wh or Kwh).

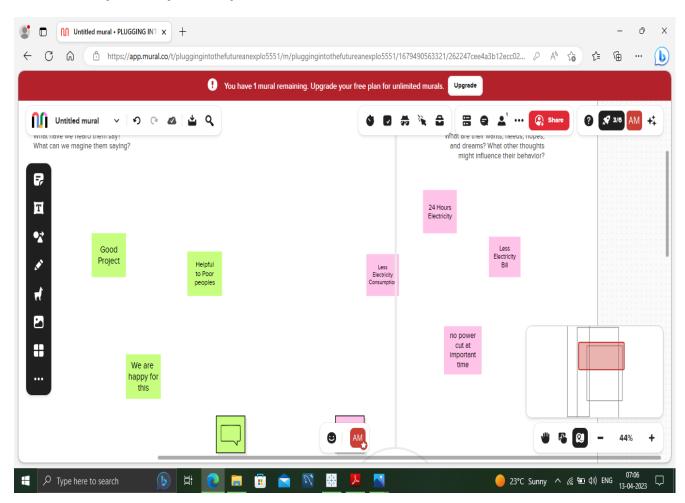
Analysing Electricity consumption in India. This dataset of India, here we are going to analyse state wise, region wise and overall electricity consumption in India.

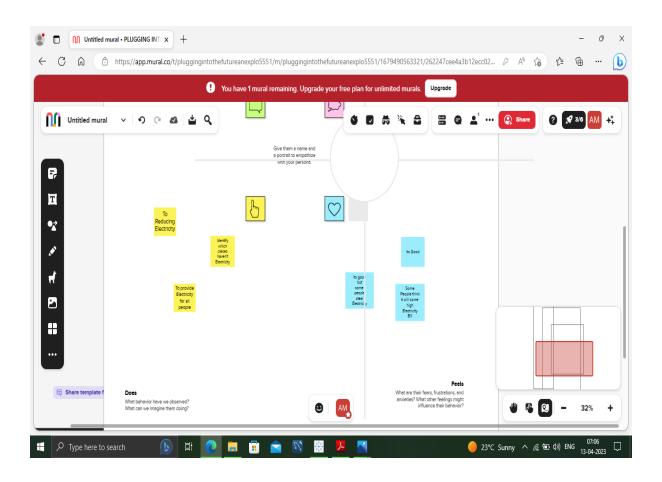
1.2.Purpose:

Annual electricity consumption per capita serves as an important measure of a country's electric power development.

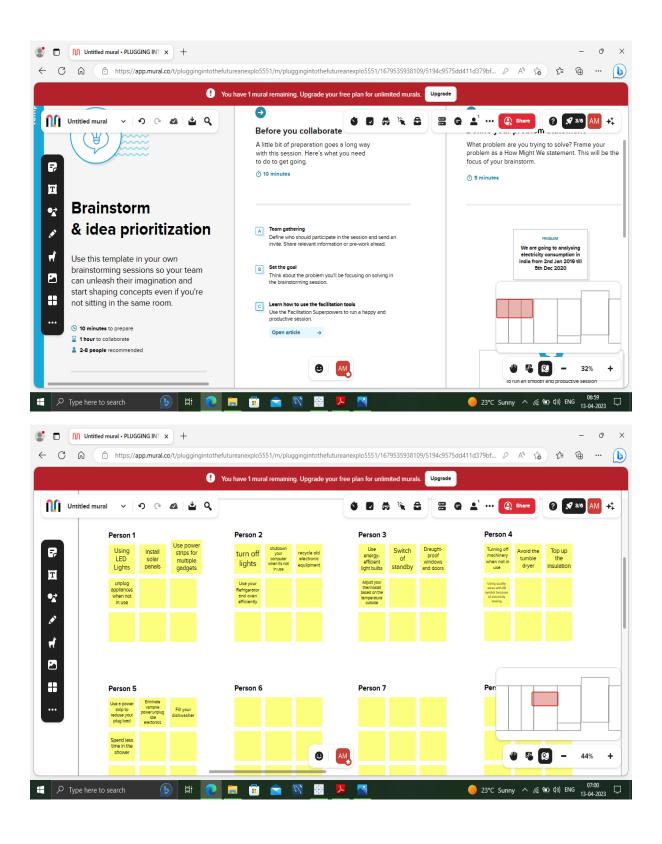
Generally speaking, electricity consumption grows faster when the industrialization process develops quickly and goes down rapidly then industrialization is completed or near competition.

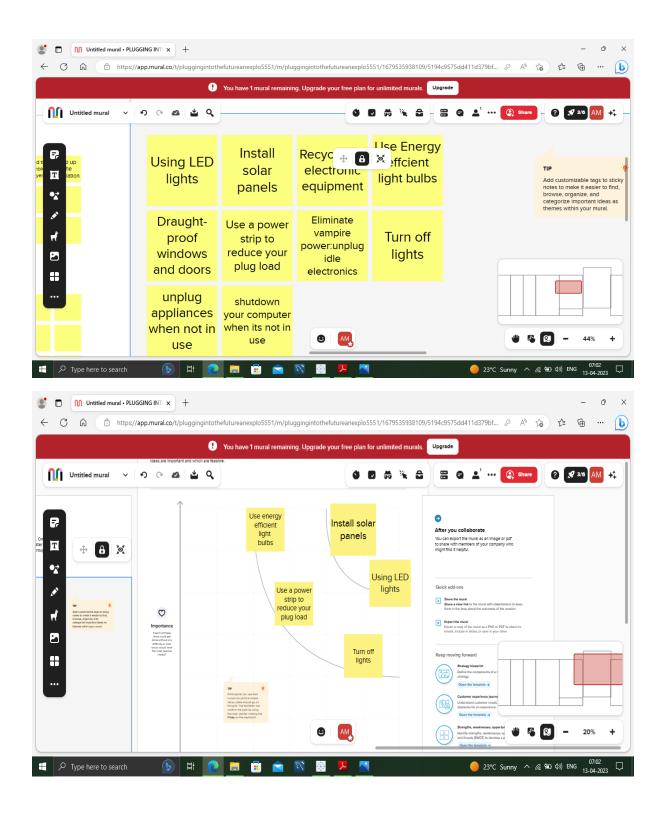
- 2. Problem Definition & Design Thinking:
- 2.1.Empathy Map:





2.2. Ideation & Brainstorming Map:



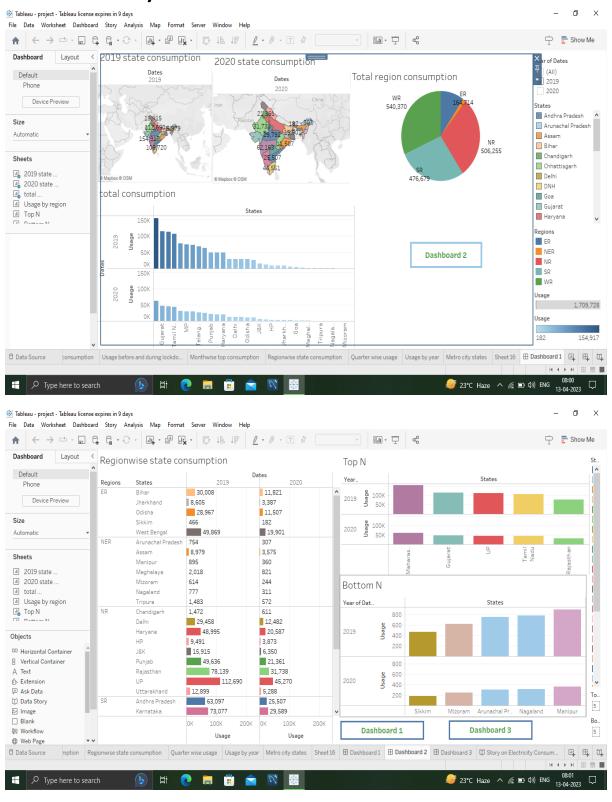


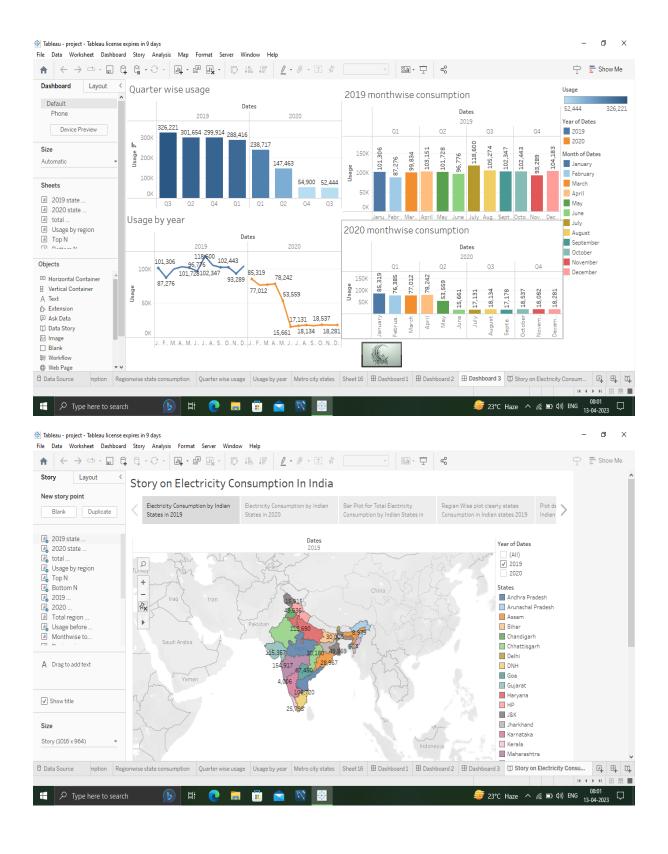
3.Result:

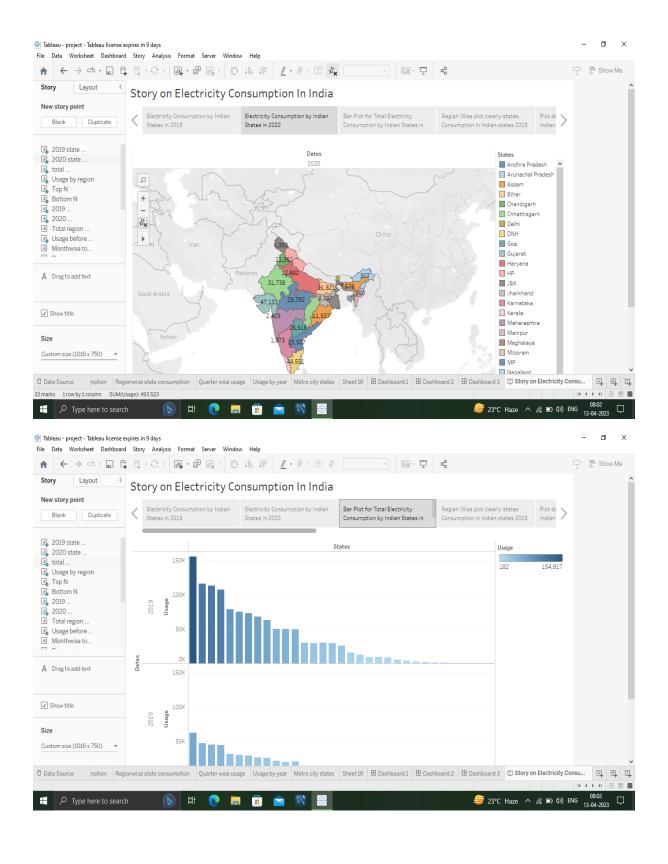
3.1.Data Model:

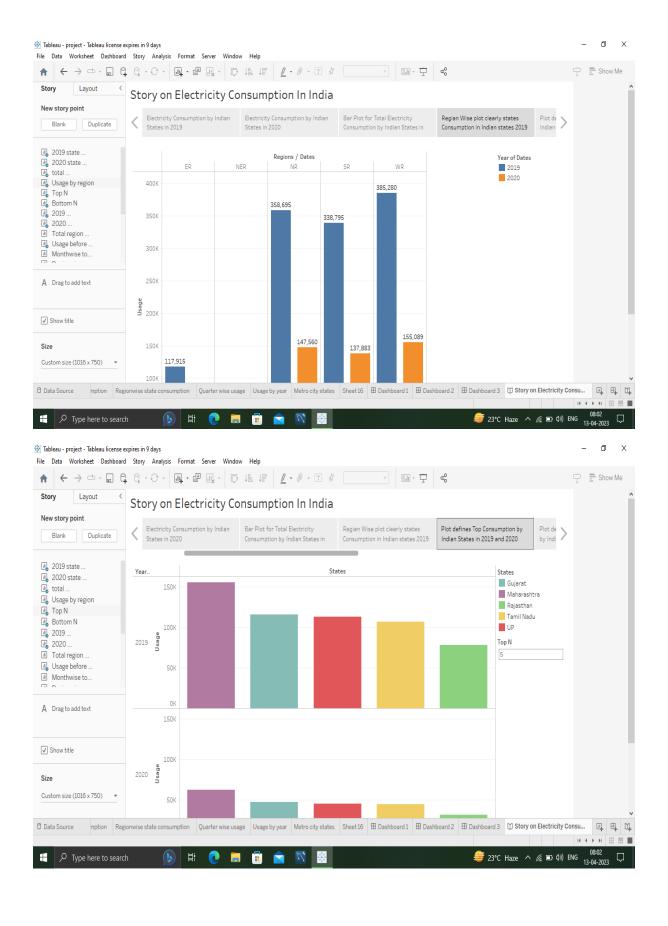
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Public	Field Label	Data type		
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2.SQL Server				
	Field Label Data type			
	Columns	Integer		

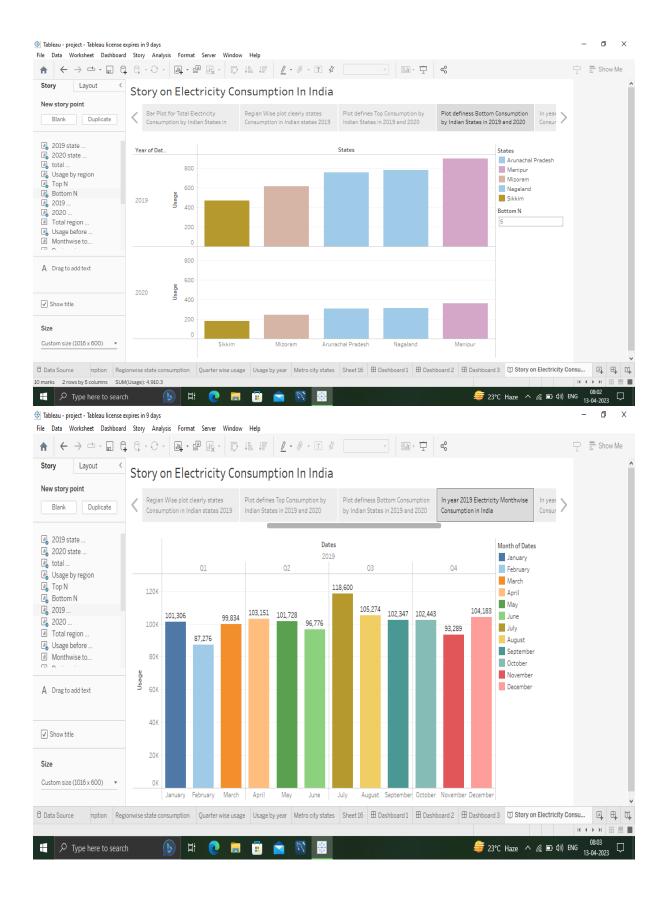
3.2. Activity & Screenshot:

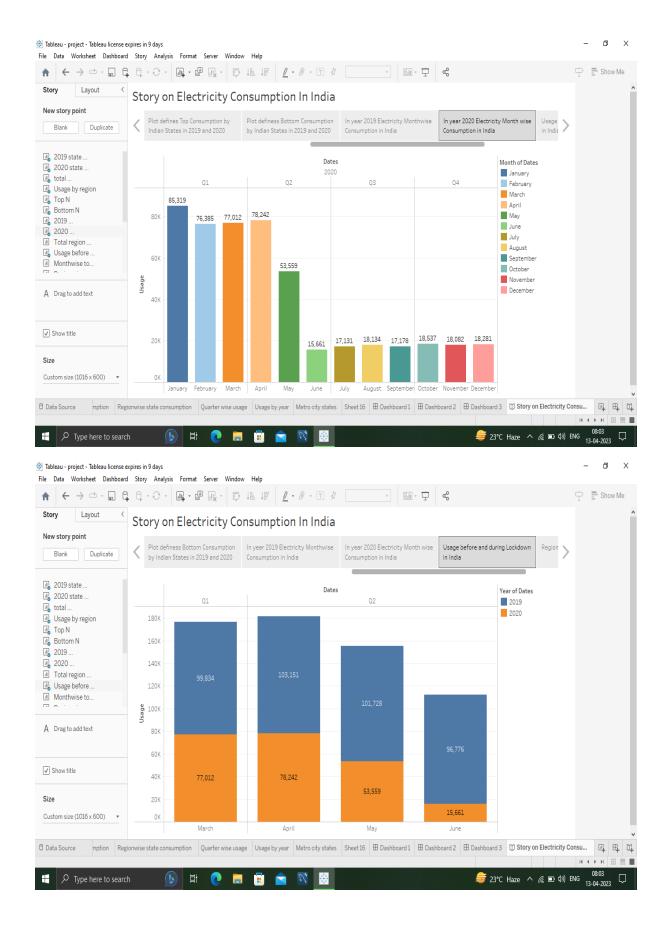


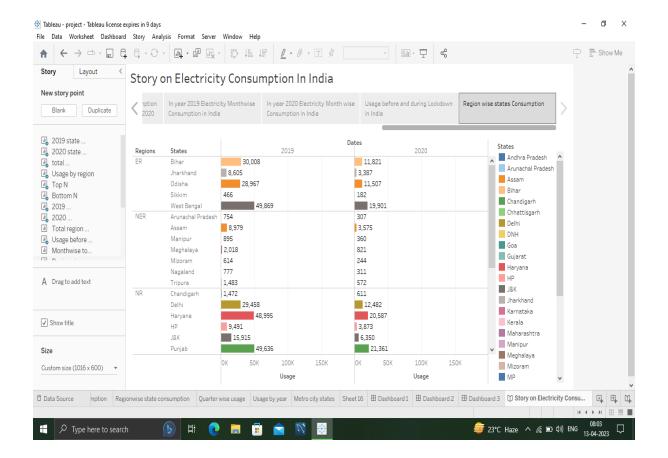












4. Trailhead Profile Public URL:

Team leader: https://trailblazer.me/id/manushya

Team Member 1: https://trailblazer.me/id/mwaran20

Team Member 2: https://trailblazer.me/id/subhp12

Team Member 3: https://trailblazer.me/id/ppriya332

Team Member 4: https://trailblazer.me/id/laksp29

5. Advantages:

- * It is a clean, safe, cheap and convenient source of energy.
 - * Lower maintenance cost.
- * We all known that it can be set many sizes.
- * A station can operate and run for long periods of time.
- * It doesn't require as many employees.

Disadvantages:

- * More expensive than gasoline.
- * Loss of fish species.
- * Sometimes meases up wildlife.
- * Dependent on precipitation.
- * More power plants and more pollution.
- * Cost for construction.
- * Change in river or stream quality.

6. Applications:

People use electricity for lighting, heating, cooling, and refrigeration and for operating appliances, computers, electronics, machinery and public transportation systems.

Electric cells are used as a source of electricity in torches, wristwatches, alarms clocks, transistor, Radios, TV remotes, Cameras, Mobile phone, toys and many other devices.

7. Conclusion:

Electricity Consumption States:

- Maharashtra is the highest electricity consumption user of India.
- Gujarat is the 2nd highest electricity consumption user of India.
- Sikkim is the lowest electricity consumption user of India.

Electricity consumption before and during lockdown in India:

During lockdown that is 2020 we used less electricity.

In 2019, we used more electricity than during the lockdown period.

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 2019 for Quarter 3 was lowest.
- * Electricity consumption in 2020 for Quarter 1 was highest.

Electricity consumption in Regions:

* 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.

8. Future scope:

In the stated policies scenario, global electricity demand grows at 2.1% per year to 2040, twice the rate of primary energy demand.

This raises electricity's share in total final energy consumption from 19% in 2018 to 24% in 2040. Electricity demand growth is set to be particularly strong in developing economics.