

Data Analytic Powered By Tableau

PROJECT TITLE

**PLUGGING INTO THE FUTURE: AN EXPLORATION OF
ELECTRICITY CONSUMPTION PATTERNS**



SUBMITTED BY

TEAM ID : NM2023TMID04110

TEAM LEADER : NEETHU.S.M

TEAM MEMBERS : ANUSHA MARIYA.S

AKSHAYA.S

ALJIYA.J.D

PRABITHA.J

PROJECT REPORT

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AN EXPLORATION OF ELECTRICITY CONSUMPTION PATTERNS

INTRODUCTION



Electricity is the energy that makes a work through the ordered flow of electrons .It is the product of current, voltage, and time. The amount of useful work that is done and conversely of energy that is lost as heat , depends on the resistance of the medium through which electrons flow . People use electricity for lighting, heating, cooling, and refrigeration and for operating appliances, computers, electronics,and public transportation systems.

Problem

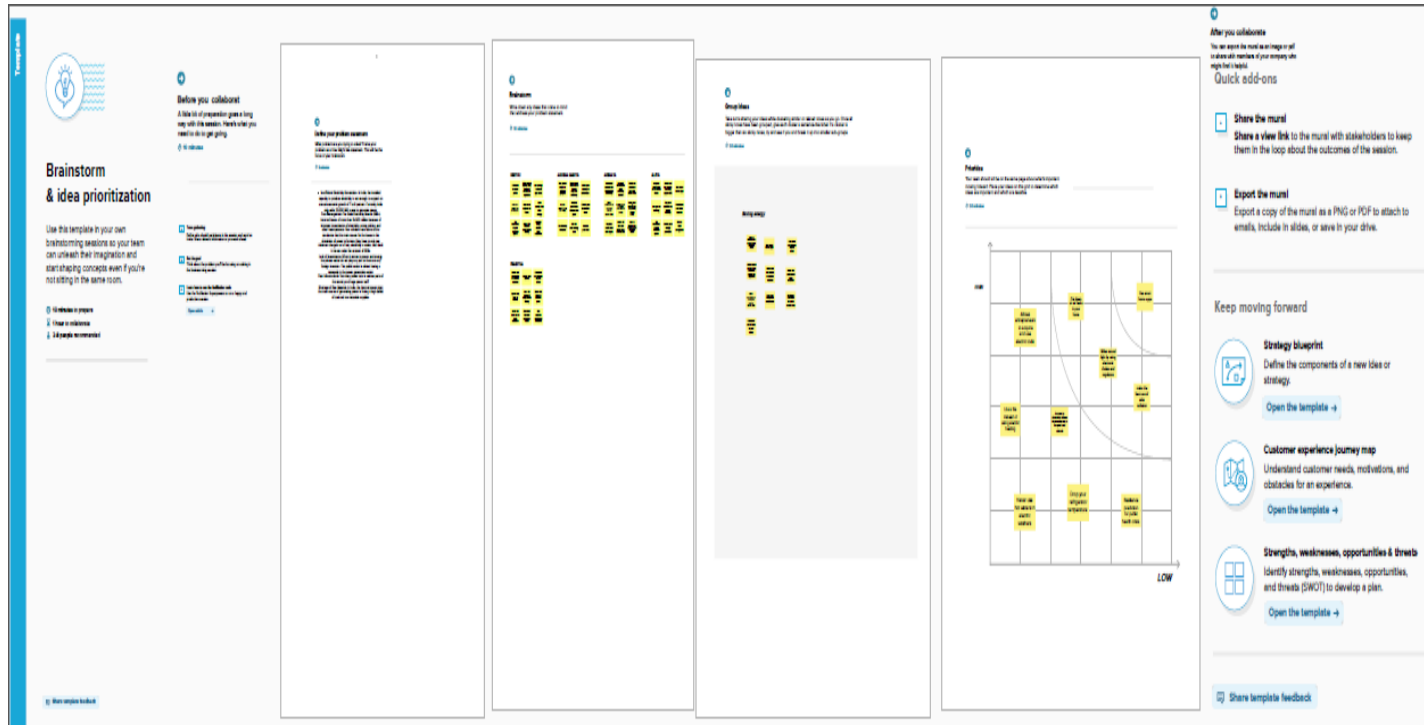
To increase the exploration of electricity consumption



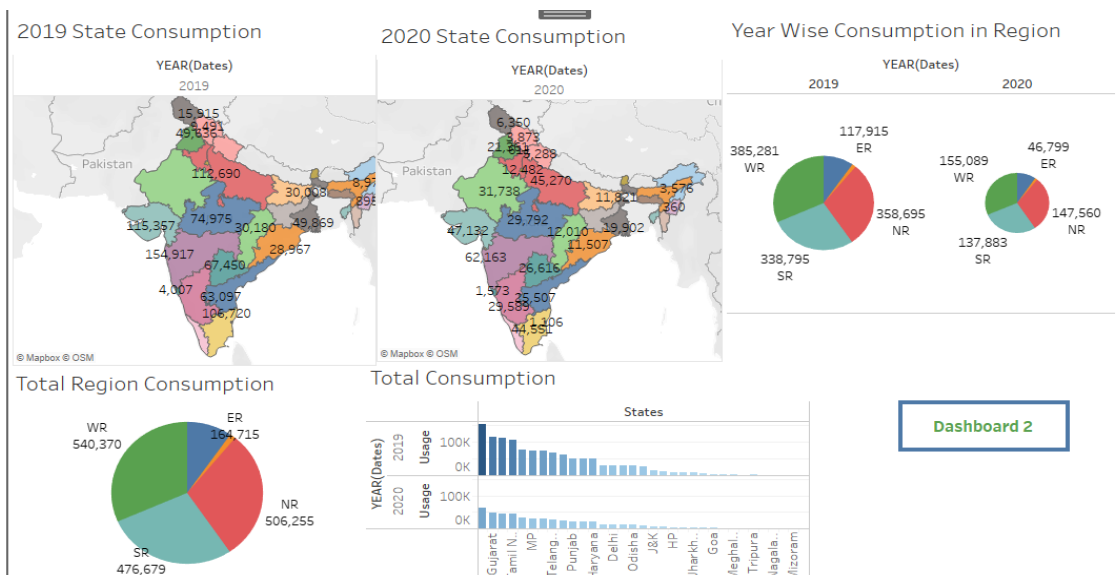
Empathy Map

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Ideation and Brainstorming Map

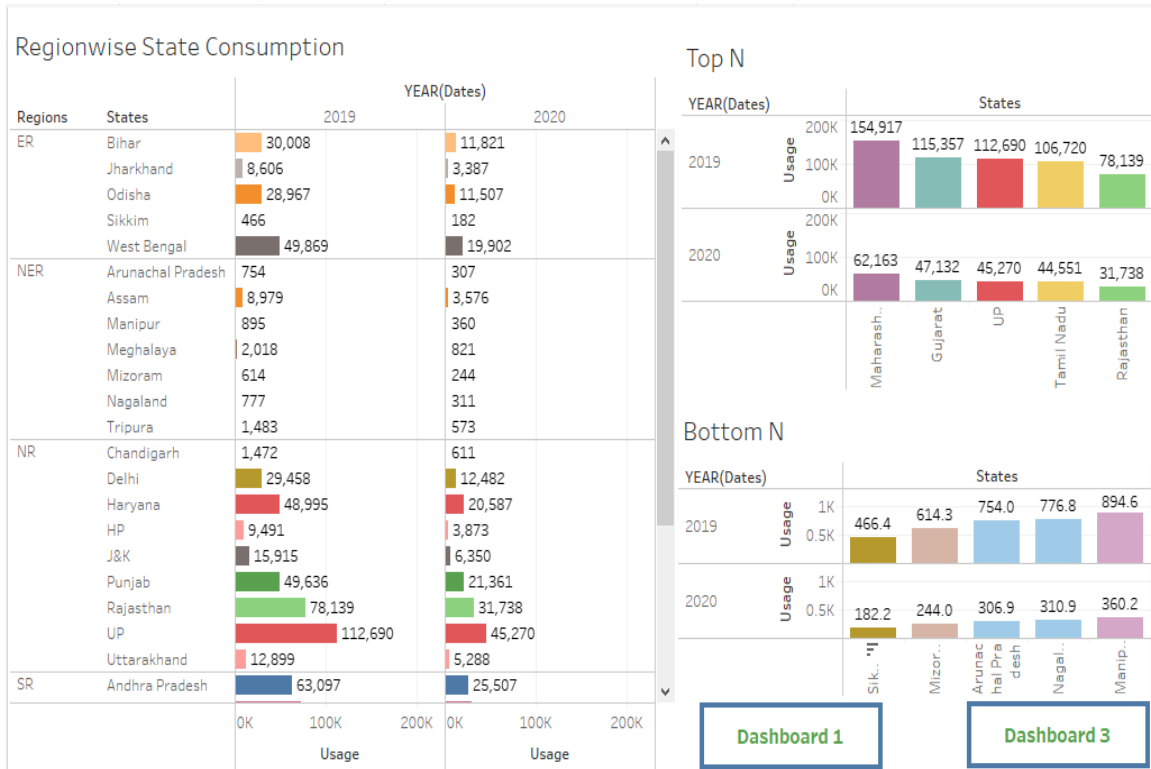


Dashboard 1

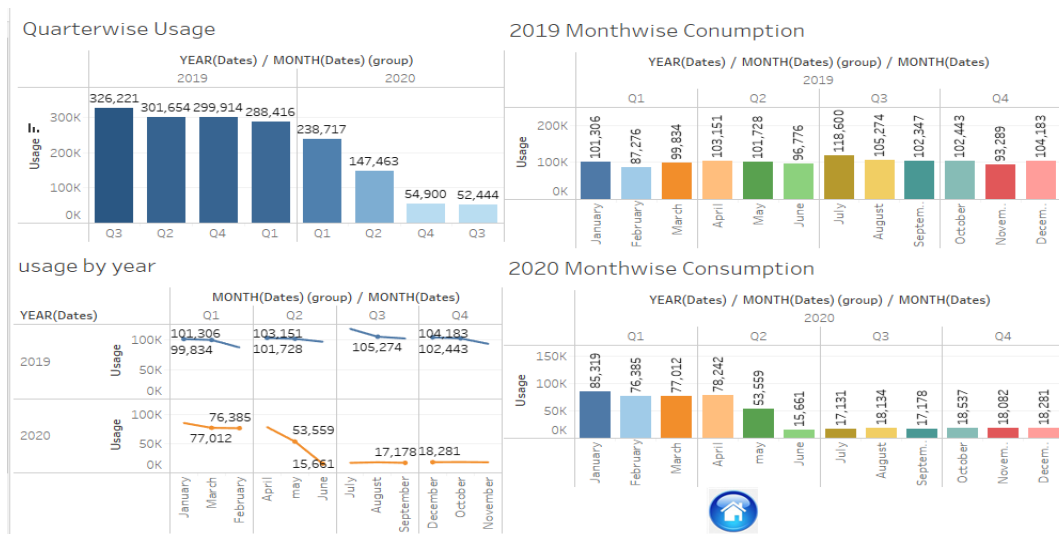


Dashboard 2

Dashboard 2



Dashboard 3

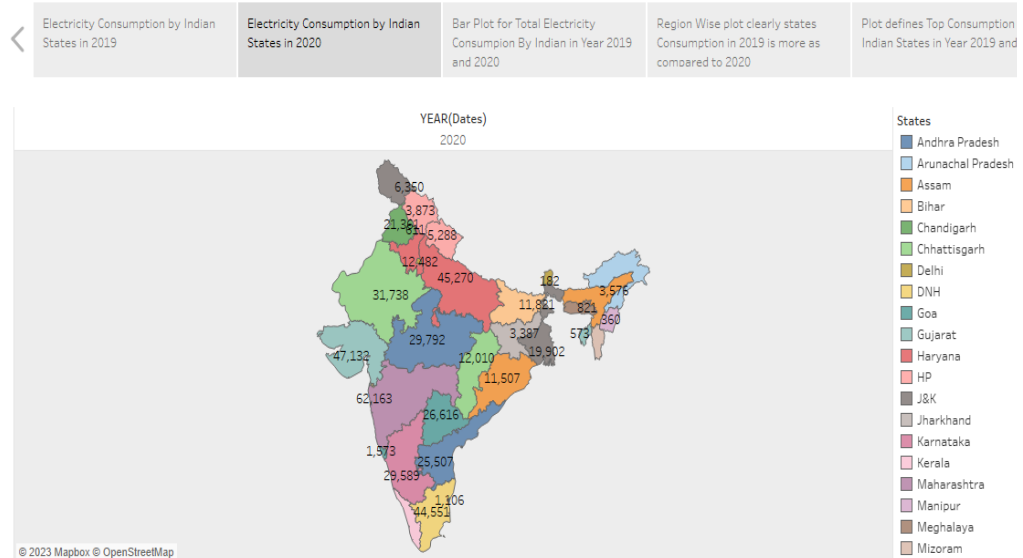


Story

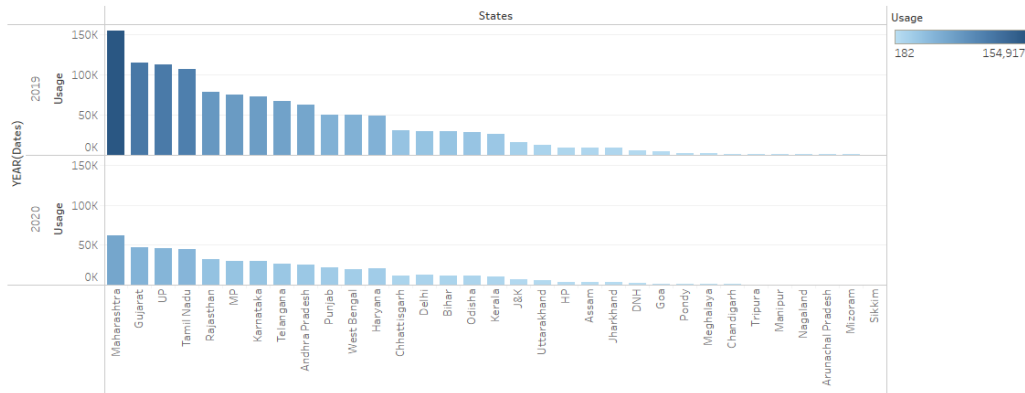
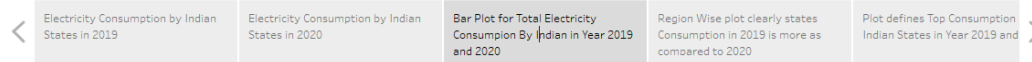
Story on Electricity Consumption in India



Story on Electricity Consumption in India



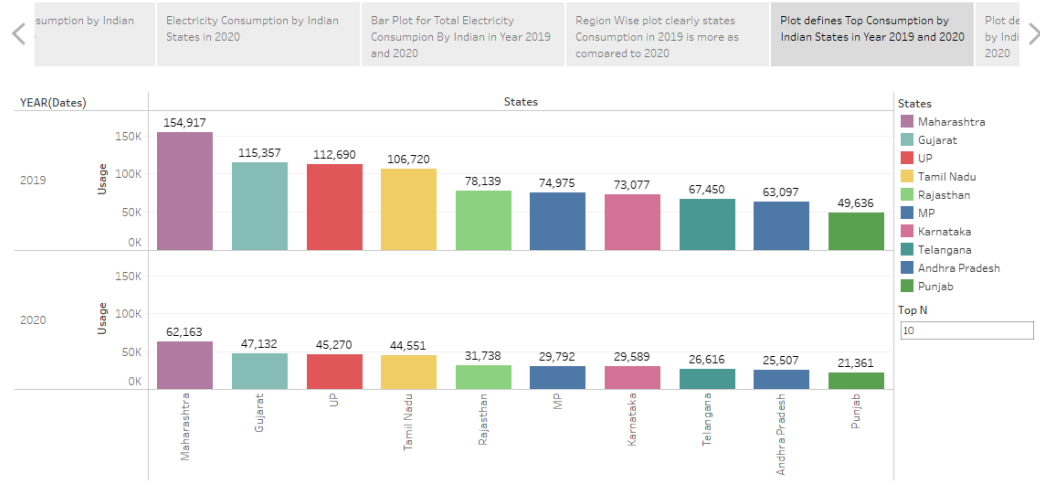
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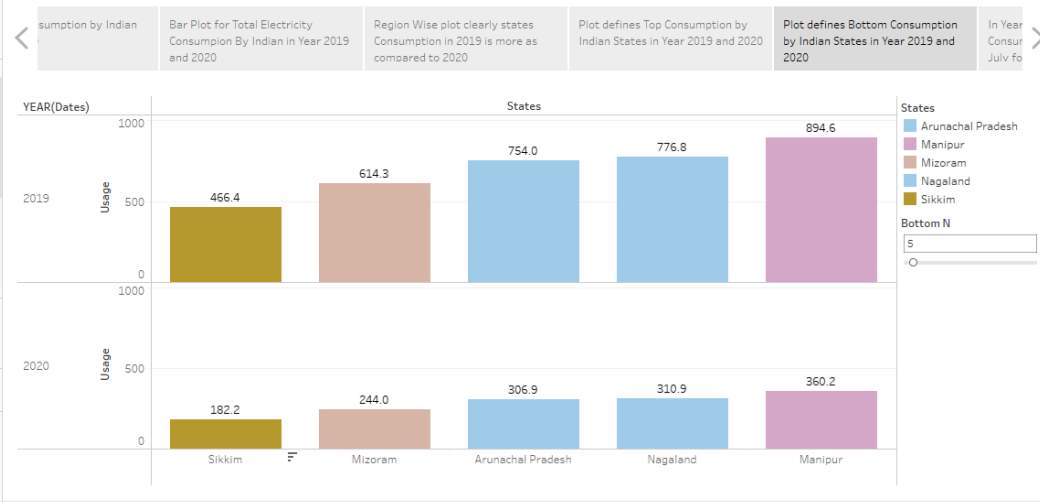
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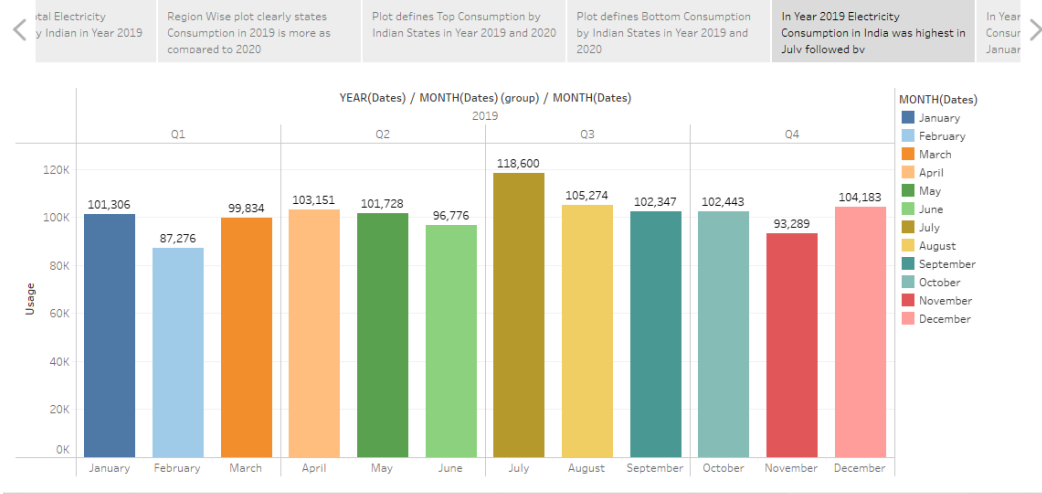
Story on Electricity Consumption in India



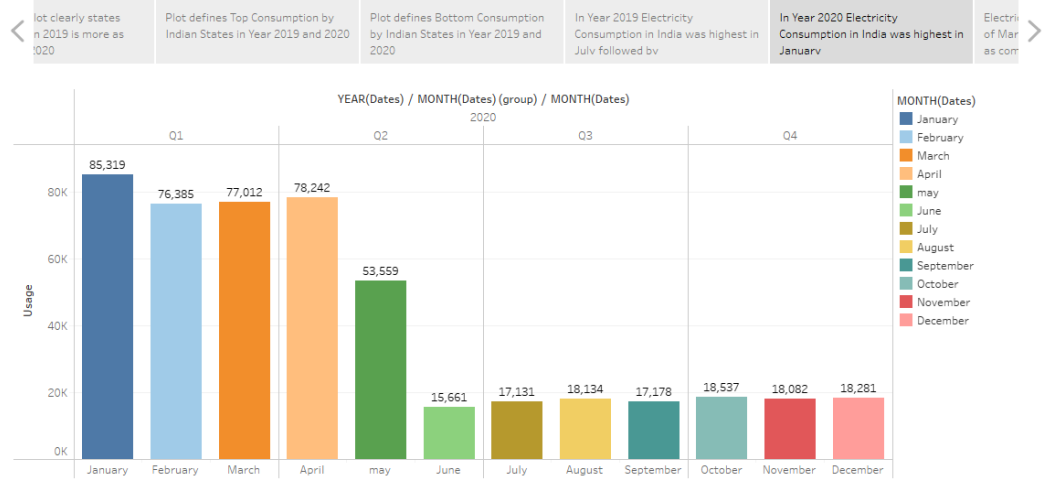
Story on Electricity Consumption in India



Story on Electricity Consumption in India



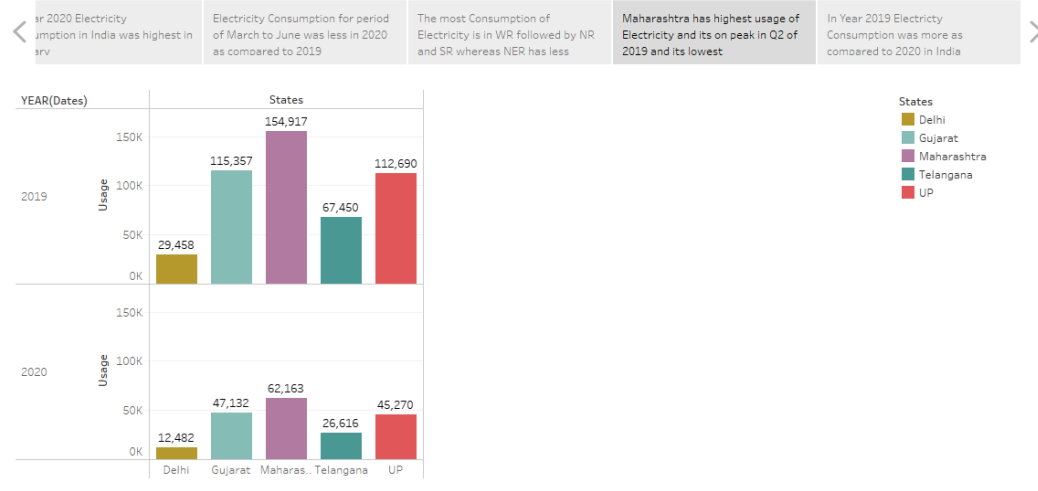
Story on Electricity Consumption in India



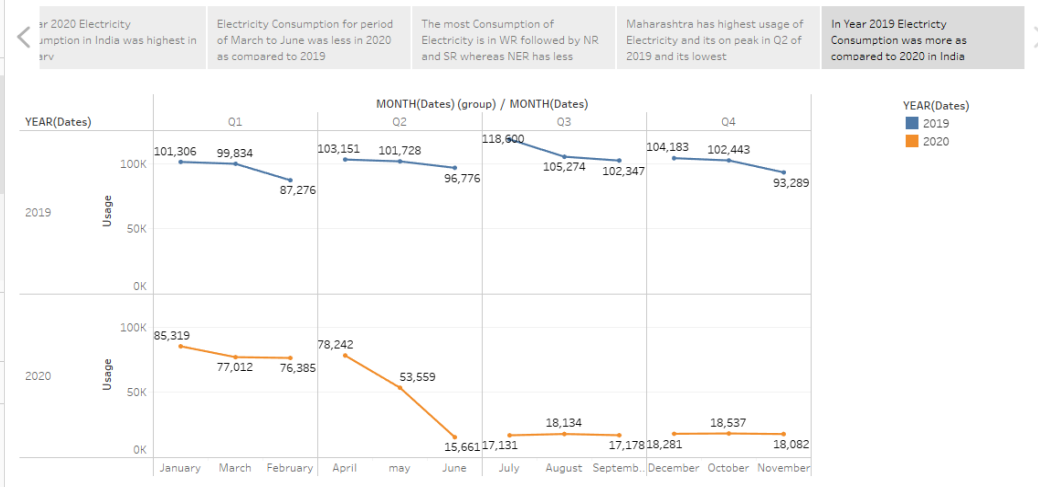
Quarter	2019 Usage (K)	2020 Usage (K)
Q1	99,834	77,012
Q2	103,151	78,242
Q3	101,728	53,559
Q4	96,776	15,661

Bottom Consumption es in Year 2019 and		In Year 2019 Electricity Consumption in India was highest in Julv followed byv		In Year 2020 Electricity Consumption in India was highest in Januarv		Electricity Consumption for period of March to June was less in 2020 as compared to 2019		The most Consumption of Electricity is in WR followed by NR and SR whereas NER has less		Mahar Electricity 2019 a	
Regions	States	YEAR(Dates)				States					
ER	Bihar	2019		2020		Andhra Pradesh					
	Jharkhand	30,008		11,821		Arunachal Pradesh					
	Odisha	8,606		3,387		Assam					
	Sikkim	28,967		11,507		Bihar					
	West Bengal	466		182		Chandigarh					
NER		49,869		19,902		Chhattisgarh					
	Arunachal Pradesh	754		307		Delhi					
	Assam	8,979		3,576		DNH					
	Manipur	895		360		Goa					
	Meghalaya	2,018		821		Gujarat					
	Mizoram	614		244		Haryana					
	Nagaland	777		311		HP					
NR	Tripura	1,483		573		J&K					
	Chandigarh	1,472		611		Jharkhand					
	Delhi	29,458		12,482		Karnataka					
	Haryana	48,995		20,587		Kerala					
	HP	9,491		3,873		Maharashtra					
		15,005		6,350		Manipur					
		0K	50K	100K	150K	0K	50K	100K	150K		
		Usage				Usage					

Story on Electricity Consumption in India



Story on Electricity Consumption in India



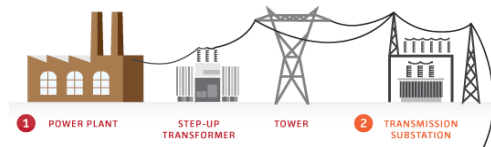
Web integration



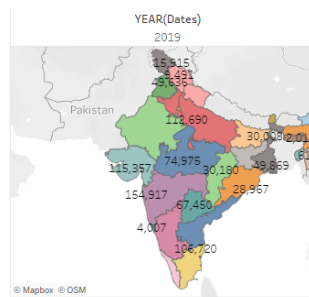
Analysis on Electricity Consumption In India

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.

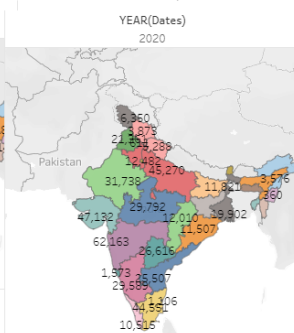
[Get Started](#)



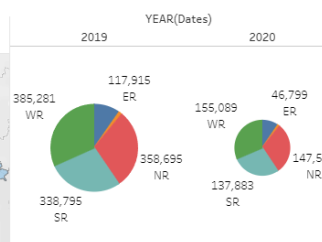
2019 State Consumption



2020 State Consumption

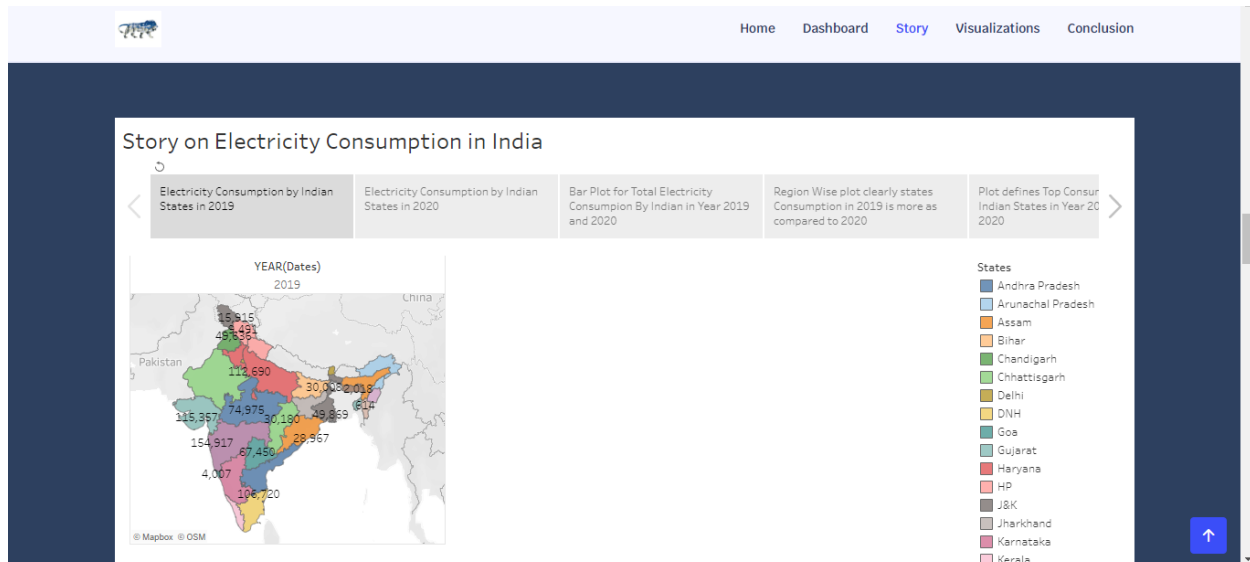


Year Wise Consumption in Region



States

- An...
- Ar...
- Ass...
- Bihar
- Ch...
- Chh...
- Delhi
- DNH
- Goa
- Guj...
- Har...
- HP
- J&K
- Jh...
- Kar...
- Ker...
- Ma...
- Me...
- Miz...
- MP
- Na...
- Odi...



Advantages and Disadvantages

Advantages

- ❖ Lower maintenance cost
- ❖ No tailpipe emission
- ❖ Reduces greenhouse emission
- ❖ It is renewable
- ❖ It is a safe, cheap and convenient source of energy.

Disadvantages

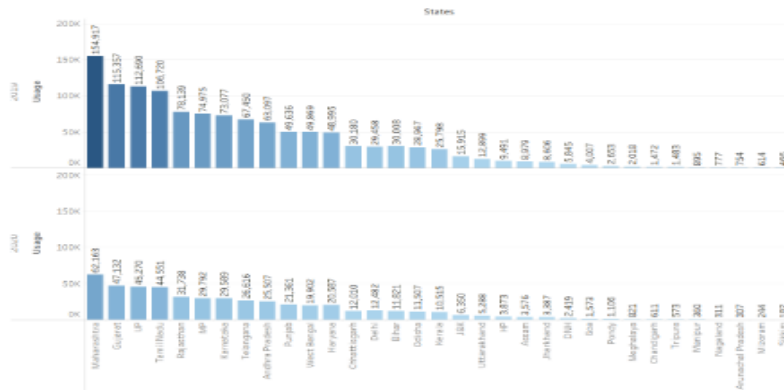
- ❖ More expensive than gasoline
- ❖ More power plants and more pollution
- ❖ Drought can affect power production
- ❖ Loss of fish species
- ❖ Cost of construction

Application



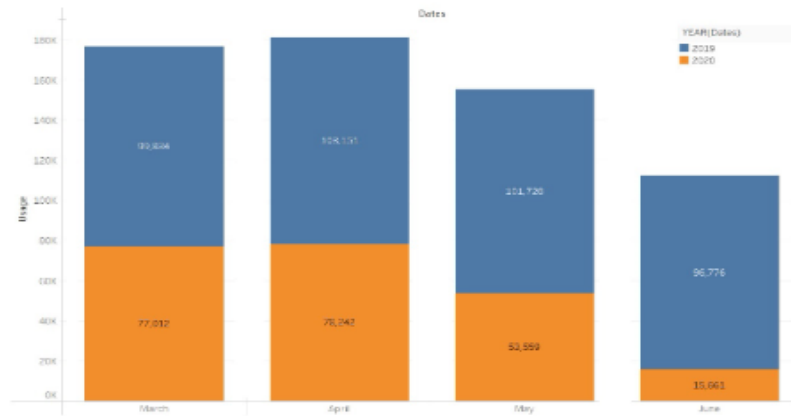
Electricity led to the development of light bulbs, heating systems and cooling systems, which have improved the quality of people's lives.

Conclusion



Electricity Consumption States.

- 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



Electricity Consumption before and during lockdown in India

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

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

Future scope



India Energy Outlook 2021 explores the opportunities and challenges ahead for India as it seeks to ensure reliable, affordable and sustainable energy to a growing population. The report examines the pathways out of the crisis that emerged from the Covid-19 pandemic, as well as longer-term trends, exploring how India's energy sector might evolve to 2040 under a range of scenarios.