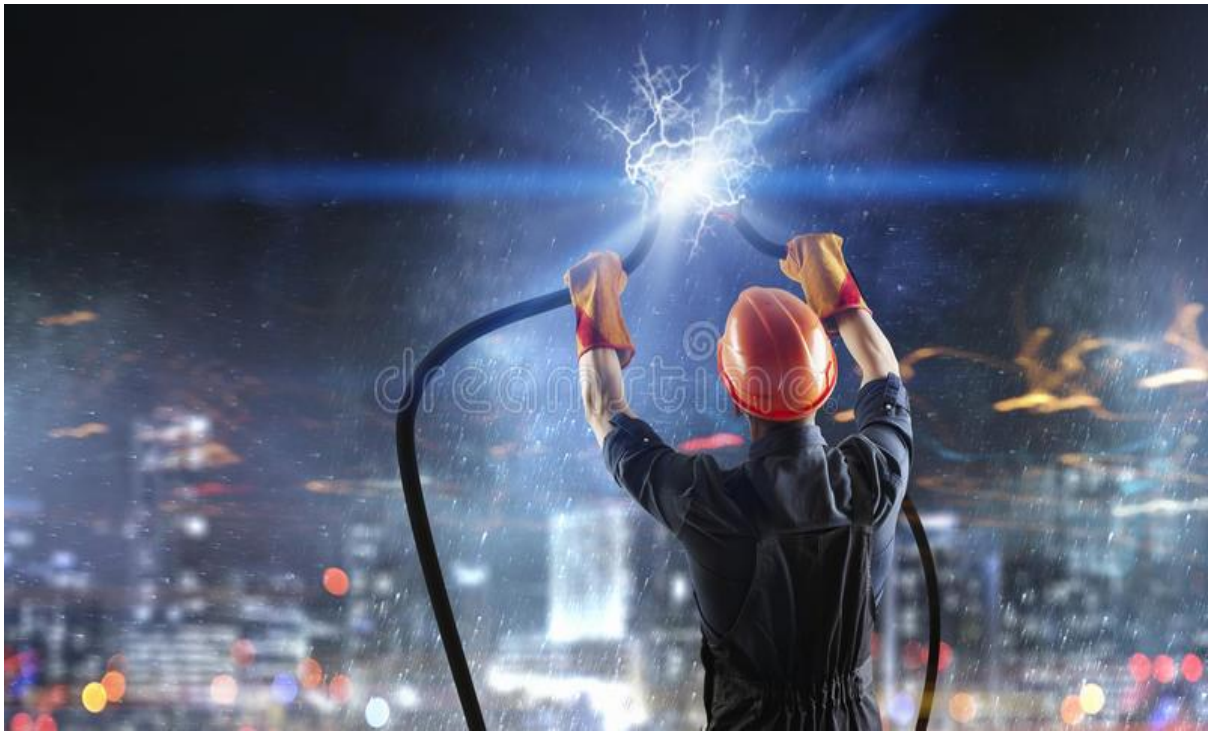
Data Analysis on Electricity Consumption In INDIA



INTRODUCTION:

The project involves analyzing the electricity consumption in India from January 2019 to December 2020. The dataset we are using contains records of electricity consumption in each state of India, and we are analyzing the consumption data at the state, region, and overall level.

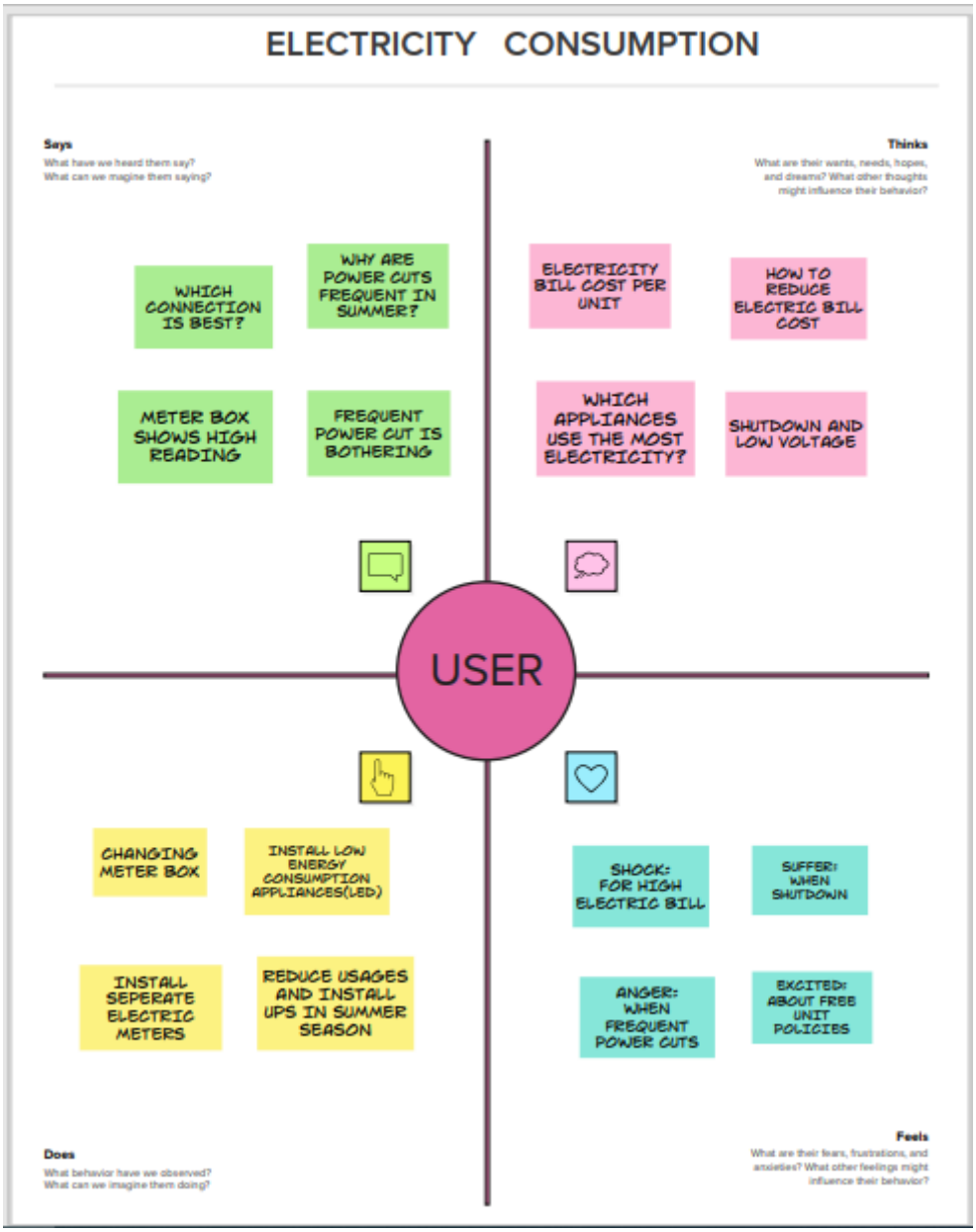
In addition we will be considering the impact of the COVID-19 lockdown on economic activities, and how this has affected electricity consumption in India our database is exhaustive in its demonstration of energy consumption state-wise, and we are using this data to analyze the trends and patterns of electricity consumption in India during the period of under study.

PURPOSE:

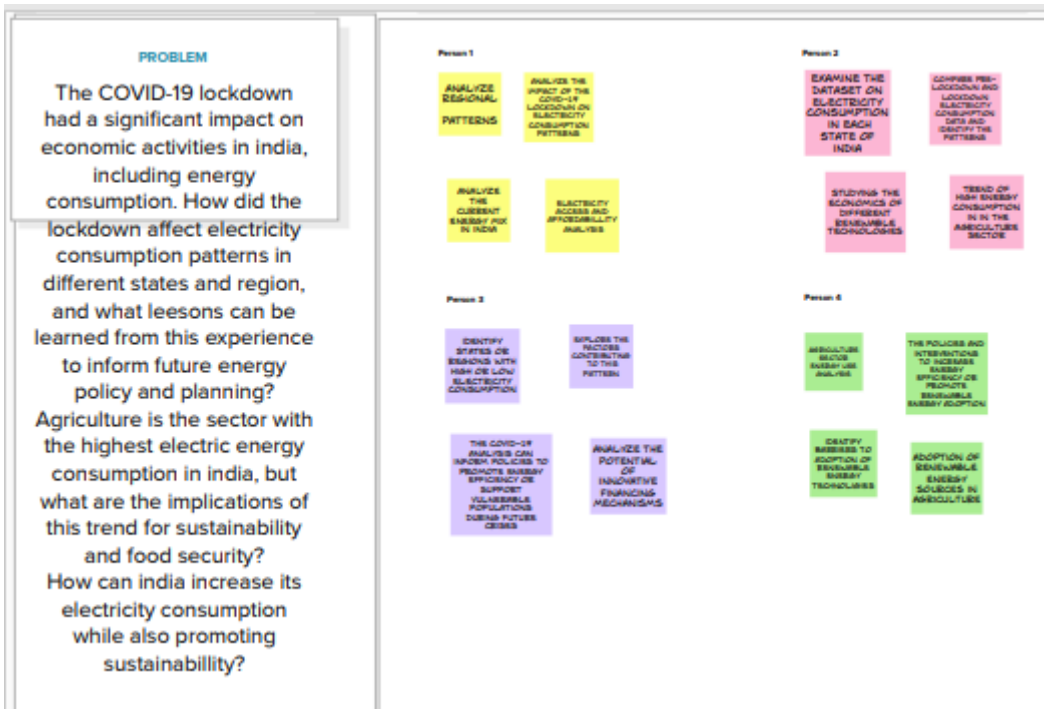
Overall, the insights gained from the project can inform policy and decision-making related to energy infrastructure, efficiency, and sustainability in India.

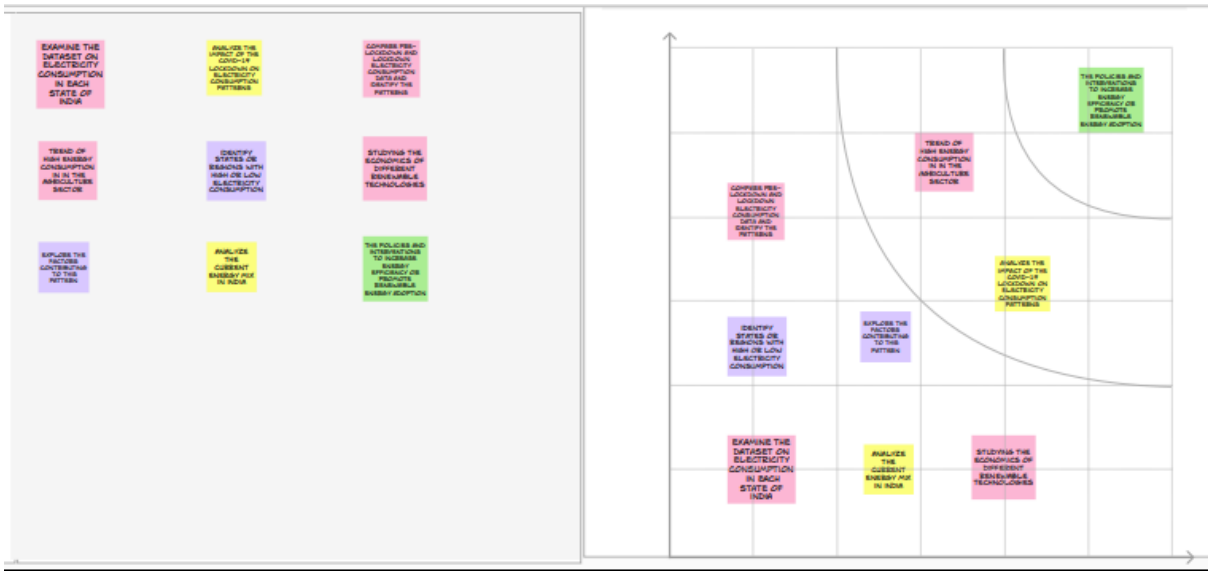
Problem Definition & Design Thinking:

EMPATHY MAP:

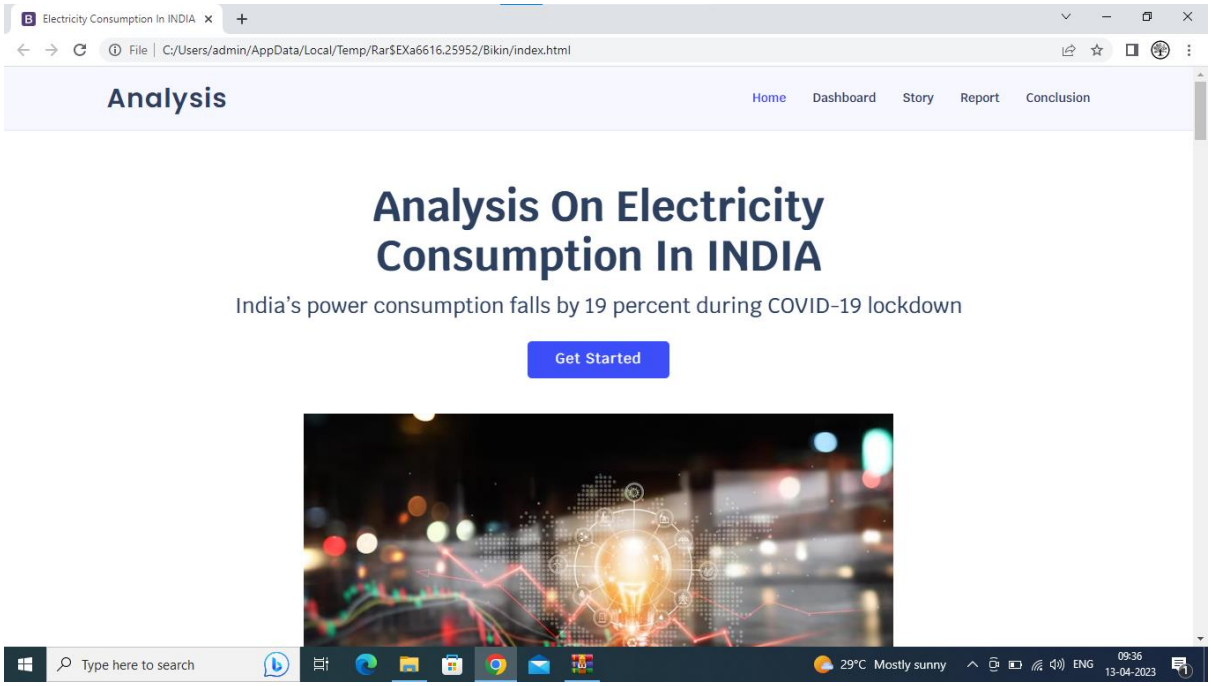


IDEATION AND BRAINSTORMING MAP:

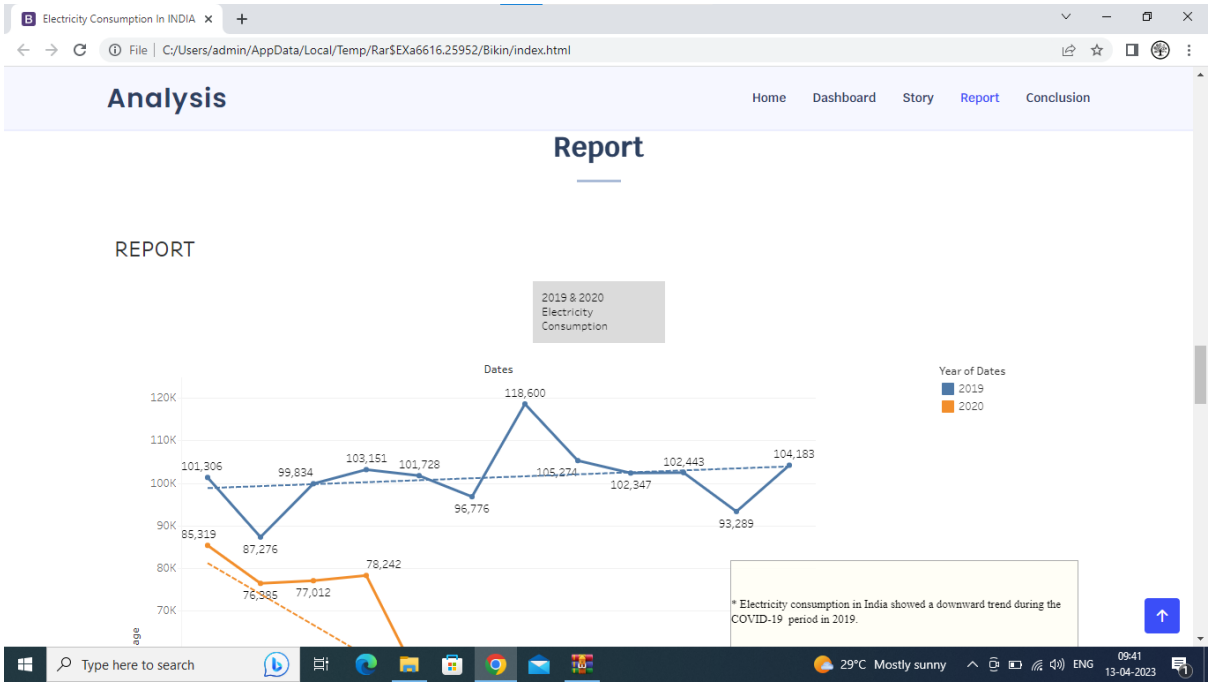

PROBLEM
The COVID-19 lockdown had a significant impact on economic activities in india, including energy consumption. How did the lockdown affect electricity consumption patterns in different states and region, and what leesons can be learned from this experience to inform future energy policy and planning?
Agriculture is the sector with the highest electric energy consumption in india, but what are the implications of this trend for sustainability and food security?
How can india increase its electricity consumption while also promoting sustainabillity?
Person 1
ANALYZE REGIONAL PATTERNS
Person 2
EXAMINE THE DATASET ON ELECTRICITY CONSUMPTION IN EACH STATE OF INDIA
Person 3
Person 4
ANALYZE THE POTENTIAL OF INNOVATIVE FINANCING MECHANISMS



RESULT:


Electricity Consumption In INDIA
File | C:/Users/admin/AppData/Local/Temp/Rar$EXa6616.25952/Bikin/index.html
Analysis
Home
Dashboard
Story
Report
Conclusion
Analysis On Electricity Consumption In INDIA
India's power consumption falls by 19 percent during COVID-19 lockdown
Get Started
Type here to search
29°C Mostly sunny
ENG
09:36
13-04-2023


Electricity Consumption In INDIA
File | C:/Users/admin/AppData/Local/Temp/Rar$EXa6616.25952/Bikin/index.html
Analysis
Home
Dashboard
Story
Report
Conclusion
2019 Usage
2020 Usage
Dates
Maharashtra 115,357
Gujarat 112,690
UP 106,720
Tamil Nadu 78,139
Rajasthan 74,975
MP 73,077
Karnataka 67,450
Telangana 63,097
Andhra Pradesh 49,636
Punjab 49,869
West Bengal 48,995
Haryana 30,180
Chhattisgarh 29,458
Delhi 30,008
Bihar 28,967
Odisha 25,798
Kerala 15,915
J&K 12,899
Uttarakhand 9,491
HP 8,979
Assam 8,606
Jharkhand 5,845
DNH 4,007
Goa 2,653
Pondy 2,018
Meghalaya 1,472
Chandigarh 1,483
Tripura 895
Manipur 777
Nagaland 754
Arunachal Pradesh 614
Mizoram 466
Sikkim 182
Maharashtra 62,163
Gujarat 47,132
UP 45,270
Tamil Nadu 44,551
Rajasthan 31,738
MP 29,792
Karnataka 29,589
Telangana 26,616
Andhra Pradesh 25,507
Punjab 21,361
West Bengal 19,902
Haryana 20,587
Chhattisgarh 12,010
Delhi 12,482
Bihar 11,821
Odisha 11,507
Kerala 10,515
J&K 6,350
Uttarakhand 5,288
HP 3,873
Assam 3,576
Jharkhand 3,387
DNH 2,419
Goa 1,573
Pondy 1,106
Meghalaya 821
Chandigarh 611
Tripura 573
Manipur 360
Nagaland 311
Arunachal Pradesh 307
Mizoram 244
Sikkim 182
* Maharashtra is the Highest Electricity Consumption user of INDIA
* Gujarat is the Second Highest Elevtricity Consumption user of INDIA
* Sikkim is the Lowest Electricity Consumption user of INDIA
Type here to search
29°C Mostly sunny
ENG
09:42
13-04-2023



Suggestions:

- Plan for future lockdown,
- Plans for managing the electricity grid during period of reduced demand, such as by temporarily shutting down some power plants.
- Promote energy storage technologies, such as batteries, can help to store excess electricity during off-peak period and release it during peak hours.

Advantages:

- Provides a basis for informed decision-making and policy development.
- Can help identify areas for further research.
- And plan for future lockdowns.

Disadvantages:

- May require time, money to conduct properly.
- May require technical skills and expertise that are not really available in all organizations or sectors.

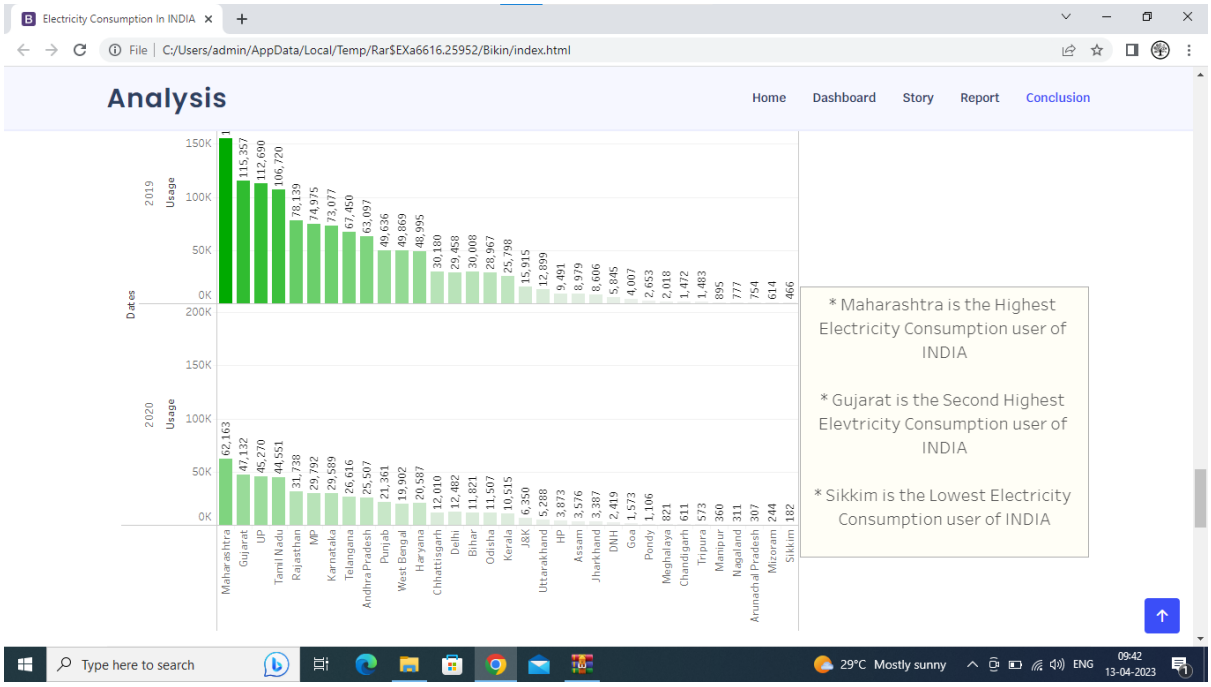
Application:

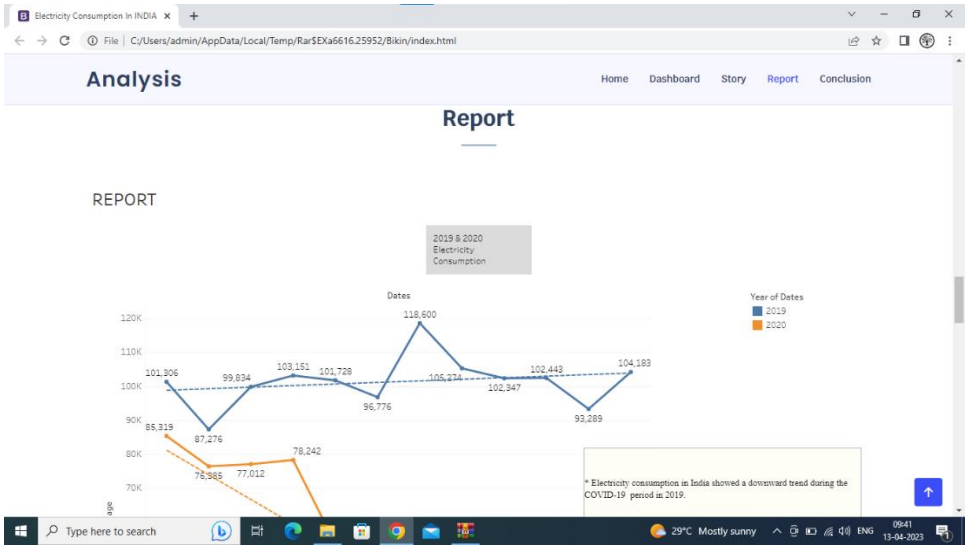
- Energy policy development.
- Electricity infrastructure planning.
- Energy efficiency promotion.

- Renewable energy promotion.
- Economic planning.

CONCLUSION:

INSIGHTS





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Future Scope:

1, long term energy-demand forecasting.

2, Energy sector modelling.

3, Smart grid development.

4, Energy data collection and analysis.

5, International Comparisons.