

PROJECT REPORT

1. INTRODUCTION

1.1. Overview

In 2019 electric energy consumption in India was recorded to be higher than 2020 due to Covid 19 pandemic situation, when everyone has been under lockdown for the month of March to June. Analysing Electricity Consumption in India from Jan 2019 till 5th December 2020. This project Analysing Electricity Consumption in India from Jan 2019 till 5th December 2020.

This project contains the record of Electricity consumption in each states of India, here we have analysed State wise, Region wise and Overall Electricity consumption in India.

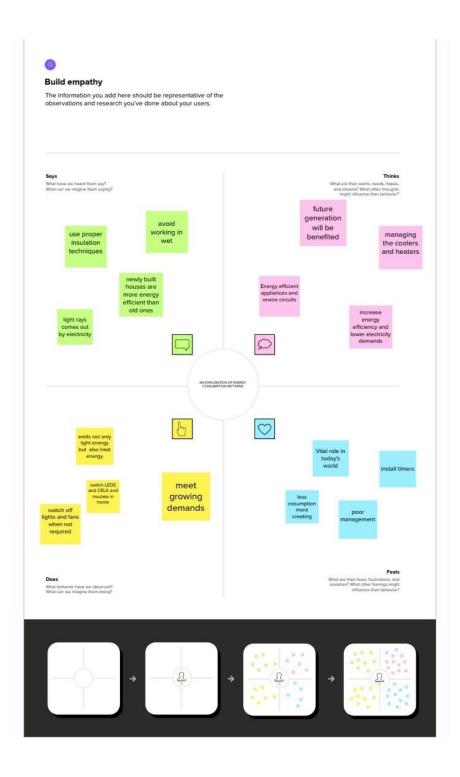
1.2. Purpose

India is the world's third-largest producer and third-largest consumer of electricity. The main objective of this project Plugging into the Future: An Exploration of Electricity Consumption Patterns is to analyse the energy consumption before and during lockdown.

Measuring energy consumption assists us to quantify the energy required by different states of India.

2. PROBLEM DEFINITION & DESIGN THINKING

2.1. Empathy Map



2.2 Ideation & Brainstroming Map



Brainstorm

Write down any ideas that come to mind that address your problem statement.

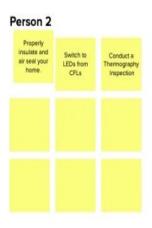
10 minutes

Person 1

TIP

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

install a programmable thermostat. Awareness in human behaviour towards energy Usage of power strip in residents and other places









Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

① 5 minutes

Type your paragraph...

Increase the energy efficiency to meet the future demands and reduce environmental impact



Key rules of brainstroming

To run an smooth and productive session



Stay in topic.



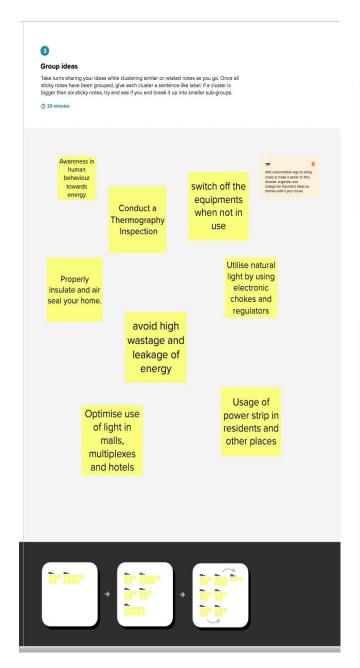
Encourage wild ideas.

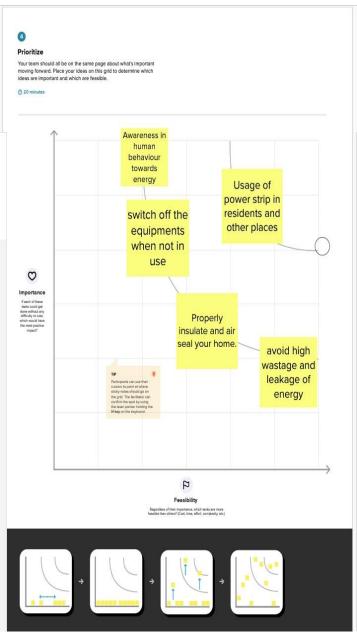


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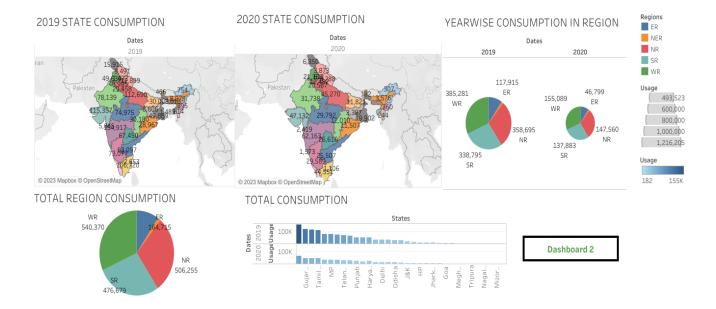
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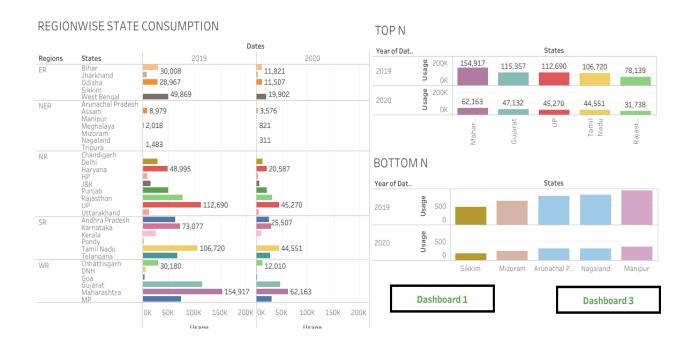


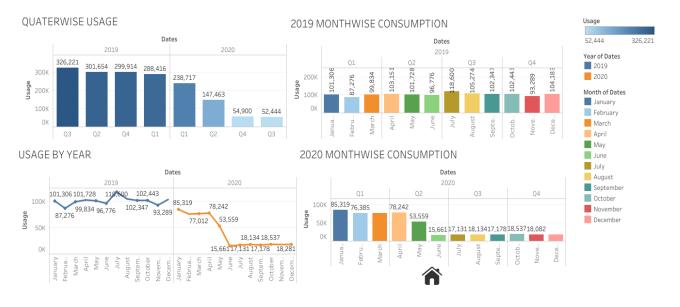


3. RESULT

3.1. Dashboard

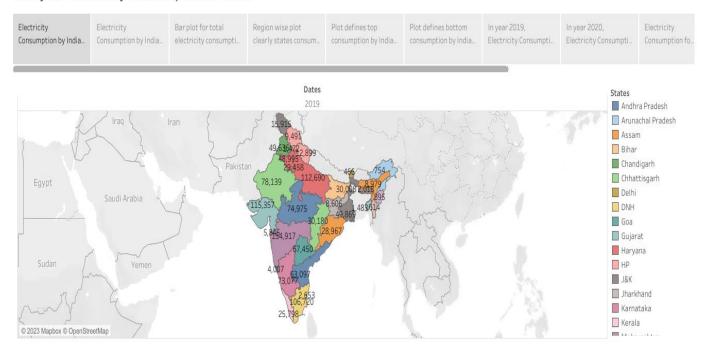






3.2. Story

Story on Electricity Consumption in India



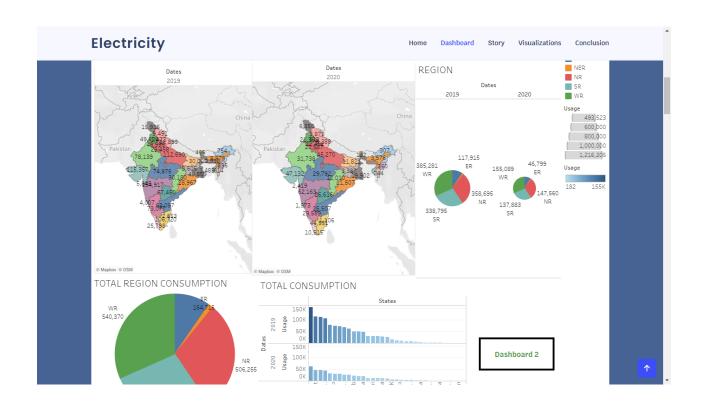
3.3. Web Integration

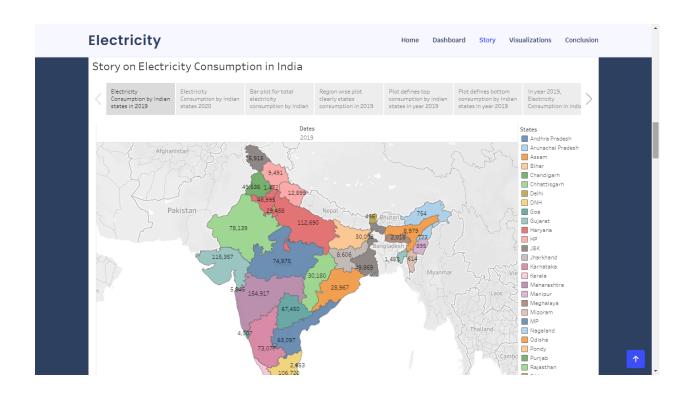
Electricity Home Dashboard Story Visualizations Conclusion

Analysis On Electricity Consumption In India

India is the world's third-largest producer and third-largest consumer of electricity. 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.

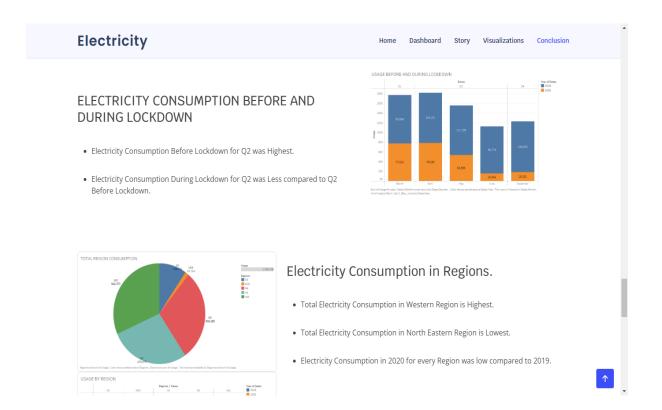










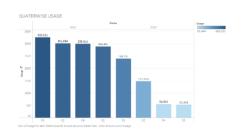


Electricity



QUATERWISE USAGE

- Electricity Consumption in 2019 for Quater 3 was Highest.
- Electricity Consumption in 2019 for Quater 1 was Lowest.
- Electricity Consumption in 2020 for Quater 1 was Highest.
- Electricity Consumption in 2020 for Quater 3 was Lowest.



1

Electricity



Electricity Consumption MONTHWISE.

- 2019 Monthwise Consumption in July was Highest.
- 2019 Monthwise Consumption in February was Lowest.
- 2020 Monthwise Consumption in January was Highest.
- 2020 Monthwise Consumption in June was Lowest.

4. ADVANTAGES & DISADVANTAGES

4.1. Advantages

- The first step of rational consumption of electric energy is analyzing the level of electricity.
- An Electric Energy Consumption Analysis is an effective tool for evaluating efficiency programs and formulating new program design plans.
- This Project examines the crisis that emerged from the Covid 19 pandemic in the sector of electric energy consumption
- Analysis helps to get ready to meet the growth of electricity demand in India

4.2. Disadvantages

- The Electric Energy Consumption Analysis shows that Energy-Saving awareness in India is generally not high.
- Results of the analysis shows that there is a large Electricity Consumption Gap occurred from the month of March to June.

5. APPLICATIONS

- Analysis Of Electricity Consumption 2019-2020 explores the opportunities and challenges in India's industrialisation and urbanisation.
- The pandemic hit can be vanquished and recovery strategies can be put on by using the this analysis project.
- This project will benefit the Government Of India or other electrical companies to optimize the energy offering efficiency and upgrad customer level services.
- Analyzing the data of energy consumption is useful in energy sales companies to predict probable future consumption and applying the costs for electrical units on the opt market

6. CONCLUSION

By understanding consumption patterns and trends in different regions and sectors of India, this information was used to identify areas where consumption was high and areas where it was low. For example, the analysis shows that the electricity consumption in the state Maharastra tops other states of India.

Based on the Analysis of Electricity Consumption in India it is concluded that compared to the period before lockdown there was a great downfall of electricity consumption during the Covid 19 lockdown.

7. FUTURE SCOPE

India is the world's third-largest energy consuming country. There is a number of aspects that future Data Analytics research in the electricity sector should incorporate in order to move the field forward.

8. APPENDIX

