PLUGGING IN TO THE FUTURE: AN EXPLORATION OF ELECTRICITY CONSUMPTION PATTERNS.

1 INTRODUCTION

India is the world's third-largest producer and third-largest consumer of electricity. The national electric grid in India has an installed capacity of 370.106 GW as of 31 March 2020. Renewable power plants, which also include large hydroelectric plants, constitute 35.86% of India's total installed capacity. 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.

In 2015-16, electric energy consumption in agriculture was recorded as being the highest (17.89%) worldwide. The per capita electricity consumption is low compared to most other countries despite India having a low electricity tariff.

In light of the recent COVID-19 situation, when everyone has been under lockdown for the months of March to June the impacts of the lockdown on economic activities have been faced by every sector in a positive or a negative way.

The dataset is exhaustive in its demonstration of energy consumption state wise. Analysing Electricity Consumption in India from Jan 2019 till 5th December 2020. This dataset contains a record of Electricity consumption in each states of India, here we are going to analyze State wise , Region wise and Overall Electricity consumption in India.

2 PROBLEM DEFINITION AND DESIGN THINKING

2.1. Empathy map

2.2. Ideation and brainstorming map

2

Brainstorm

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

TIP

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

🕐 10 minutes

Person 1

security should get the maximum priority

Person 2

Loan procedures has been collected by various financial institution

Person 3

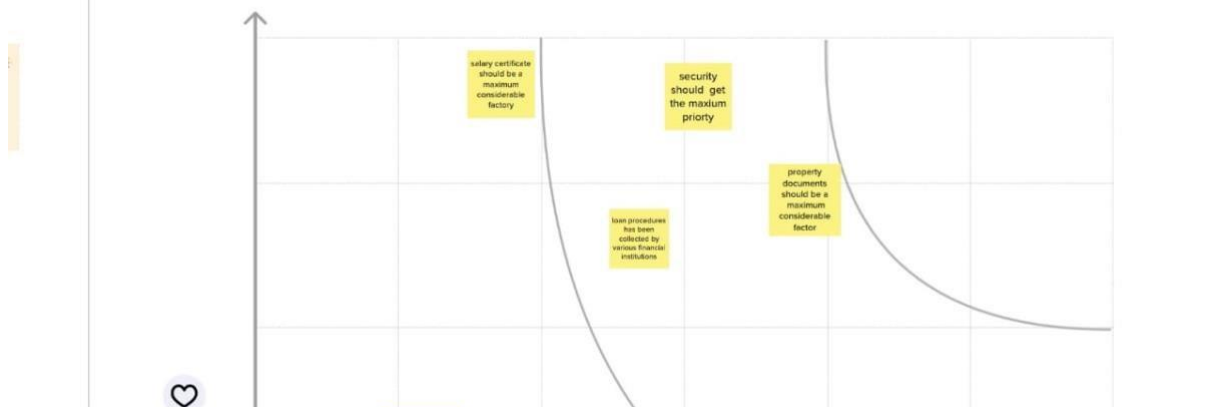property document should be a maximum considerble factor

Person 4

Salary certificate should be a maximum considerable factor

4

Prioritize

Your team should all be on the same page about what's important
moving forward. Place your ideas on this grid to determine which
ideas are important and which are feasible.

🕐 20 minutes

salary certificate should be a maximum considerable factory

security should get the maxium priorty

property documents should be a maximum considerable factor

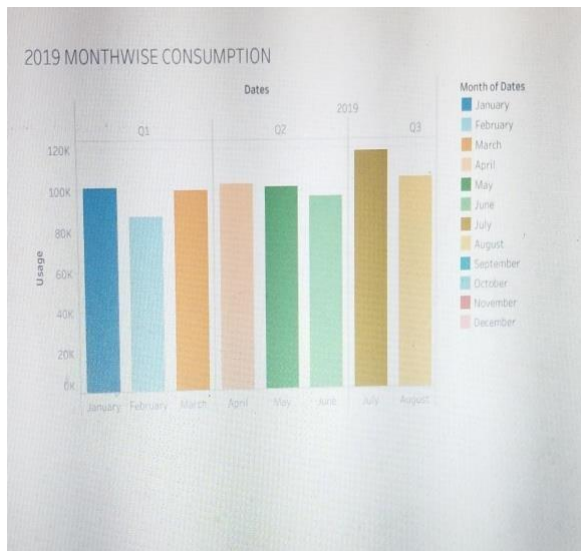loan procedures has been collected by various financial institutions

3 RESULT

The supply of energy on earth is not infinite .Furthermore it can take a long time to regenerate energy.

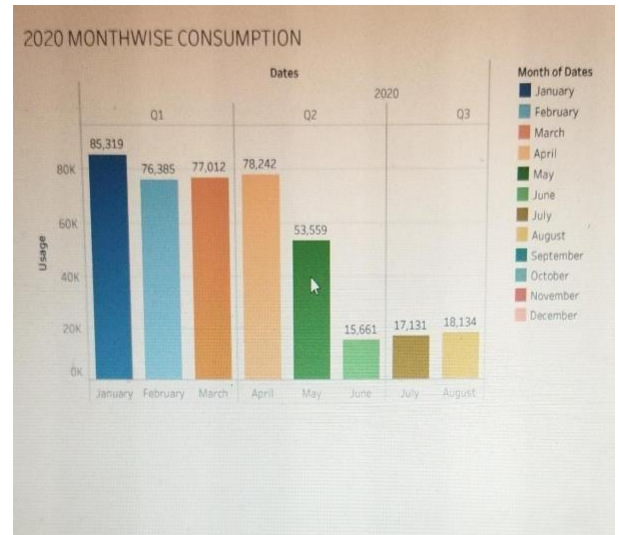This makes energy conversations even more important.

An energy efficient home is a personal step towards the direction of renewable energy, environmental protection, and sustainable living.

Current through a given area of a conductor is the net charge that passes per unit time in the conductor.
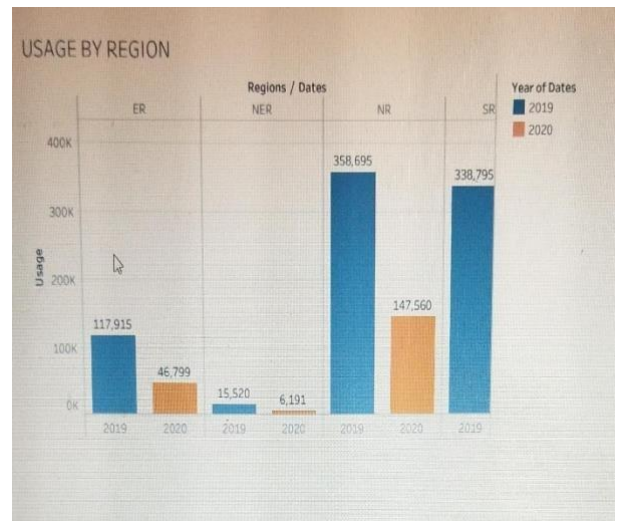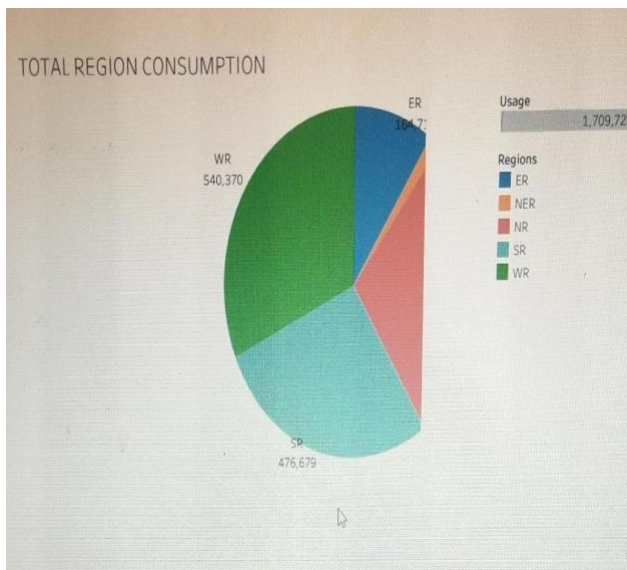
SHEET 1

SHEET 2

SHEET 3

TOTAL CONSUMPTION

Year of Dat..   States   Usage

182   154,917

2019

2020

SHEET 4

USAGE BY REGION

Regions / Dates

ER   NER   NR   SR

Year of Dates
2019
2020

Region	2019	2020
ER	117,915	46,799
NER	15,520	6,191
NR	358,695	147,560
SR	338,795	

SHEET 5

TOP N

Year of Dat..   States

States
Andhra Pradesh
Gujarat
Karnataka
Maharashtra
MP
Punjab
Rajasthan
Tamil Nadu
Telangana
UP

2019: 154,917   115,357   112,690   106,720   78,139   74,975   73,0

2020: 62,163   47,132   45,270   44,551   31,738   29,792   29,5

Maharashtra   Gujarat   UP   Tamil Nadu   Rajasthan   MP

SHEET 6

BOTTOM N

Year of Dat..   States

States
Arunachal Pradesh
Manipur
Mizoram
Nagaland
Sikkim

2019

2020

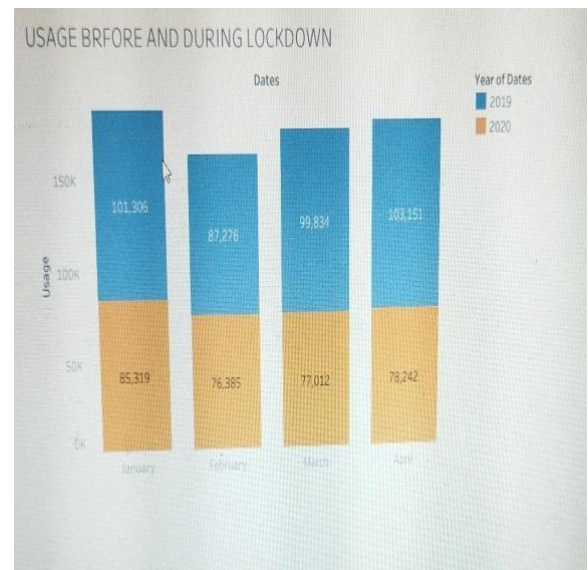Sikkim   Mizoram   Arunachal Pradesh   Nagaland   Manipur

SHEET 7

SHEET 8

SHEET 9

4 CONCLUSION

The goal of data visualization is to make complex data sets more accessible, intuitive, and easier to interpret. By using visual elements such as

charts, graphs, and maps, data visualizations can help people quickly identify patterns, trends, and outliers in the data.

BY

A.Thanuja

A.Swetha

I.Thulasi

L.Theresa