
• Plugging into the feature :
An exploration of electricity consumption patterns

PROJECT TITLE :

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

TEAM MEMBERS :

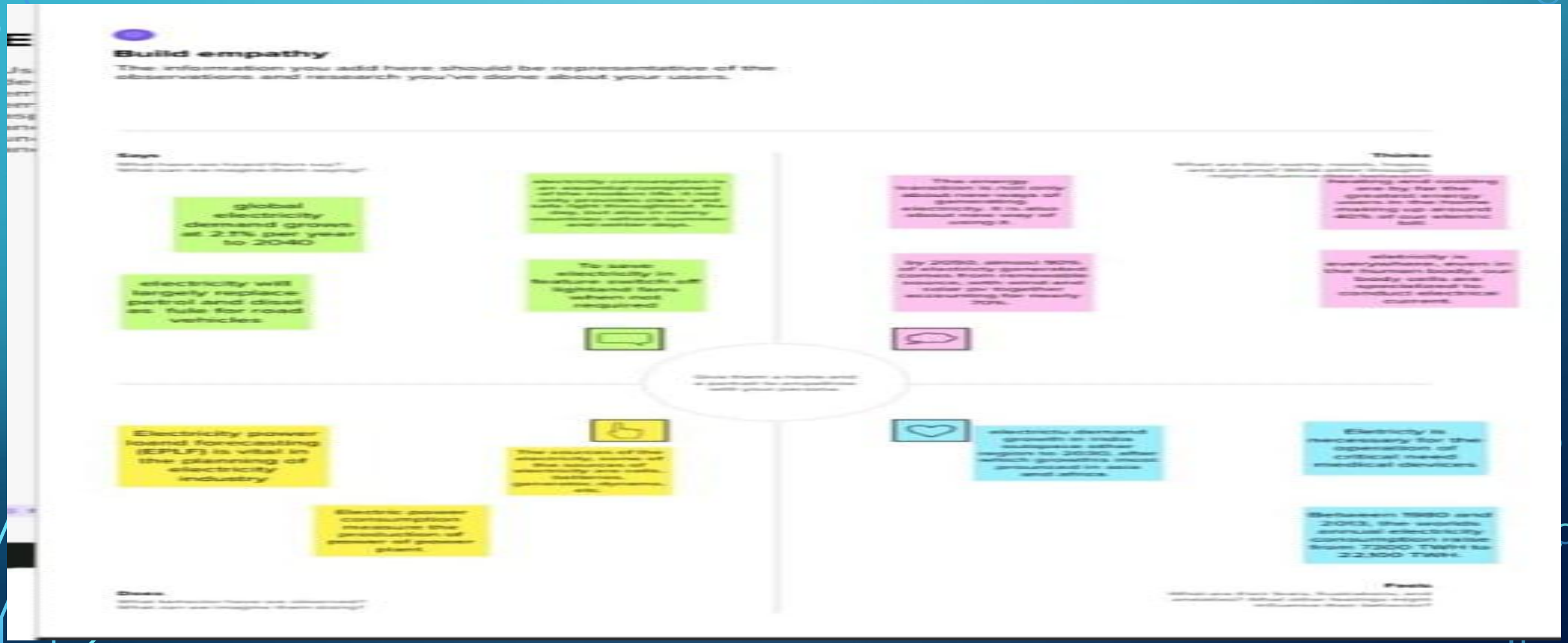
1. KALIYAMMAL .S
2. KAVIYA .B
3. KAVIYA .R
4. NITHYAKALYANI .PL

INTRODUCTION :

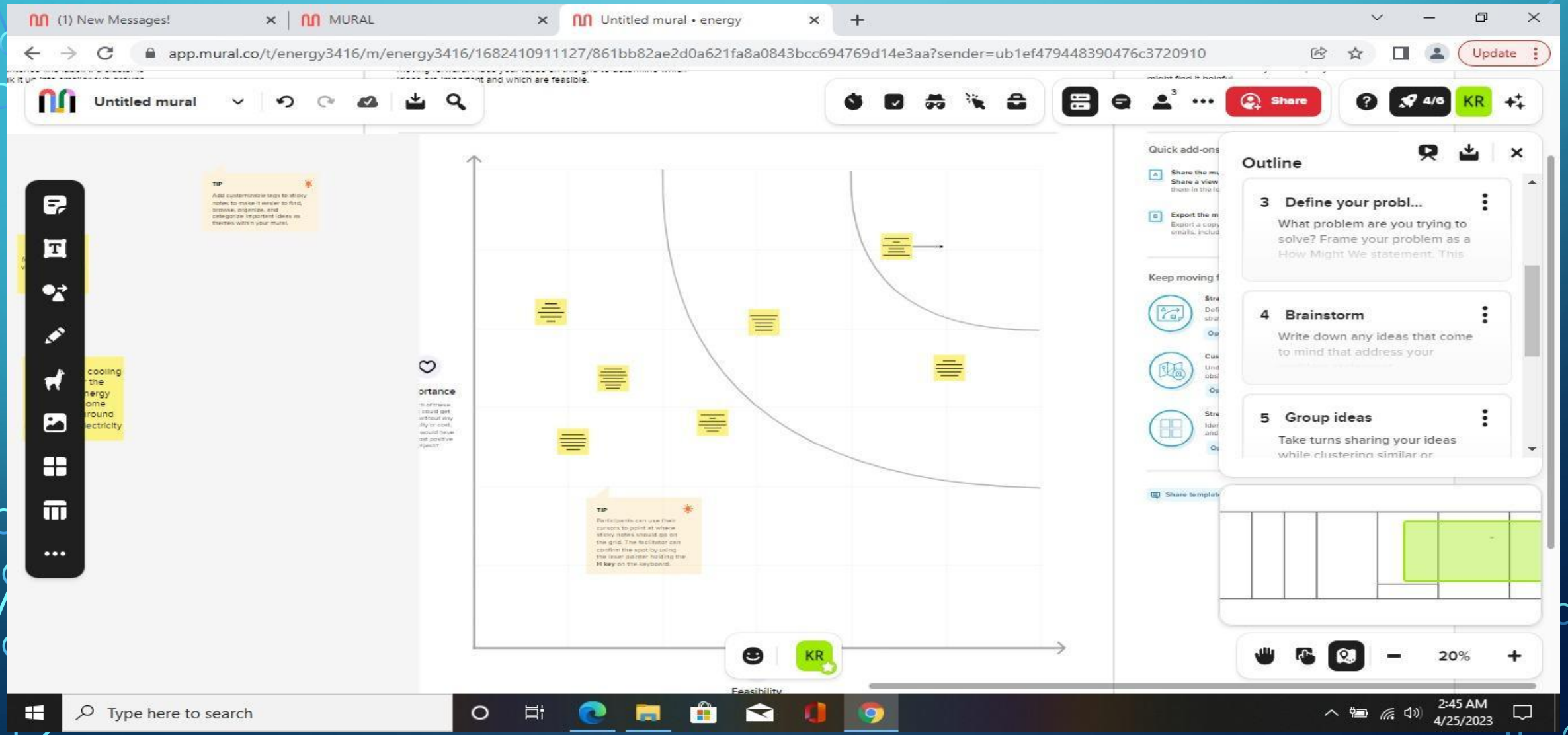
ELECTRICITY CONSUMPTION REPRESENTS THE AMOUNT OF ELECTRICAL ENERGY THAT HAS BEEN CONSUMED OVER A SPECIFIC TIME IN UNITS OF WH, ELECTRICITY DEMAND REPRESENTS THAT RATE AT WHICH ELECTRICAL ENERGY IS CONSUMED FOR A NEEDED OUTPUT RATING, IN UNITS OF W OR KW.

THE DAILY ELECTRICITY CONSUMPTION DATA WHERE AVERAGED FOR THE 3 YEARS PRESERVING THE INTRA ANNUAL VARIABILITY FOR EACH HOUSEHOLD THIS APPROACH WILL ALLOW AS TO ASSESS THE RELATIONSHIP BETWEEN ELECTRICITY CONSUMPTION AND STRUCTURAL EXPLANATORY VARIABLE, SUCH AS DWELLING CHARACTERISTICS AND OCCUPANTS PROFILES

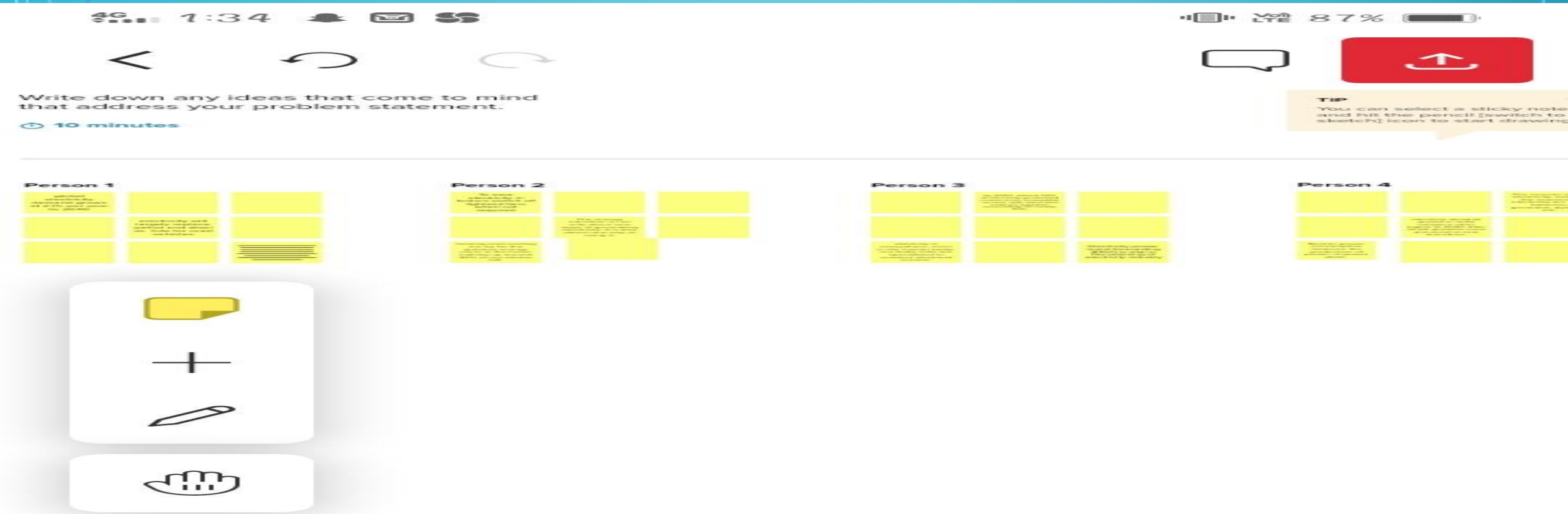
PROBLEM DEFINITION & DESIGN THINKING
2.1 EMPATHY MAP



2.2. IDEATION & BRAINSTROMING MAP



Brain strom :


1:34
87%
Write down any ideas that come to mind that address your problem statement.
10 minutes
TIP
Person 1
Person 2
Person 3
Person 4


RK

3. RESULT:

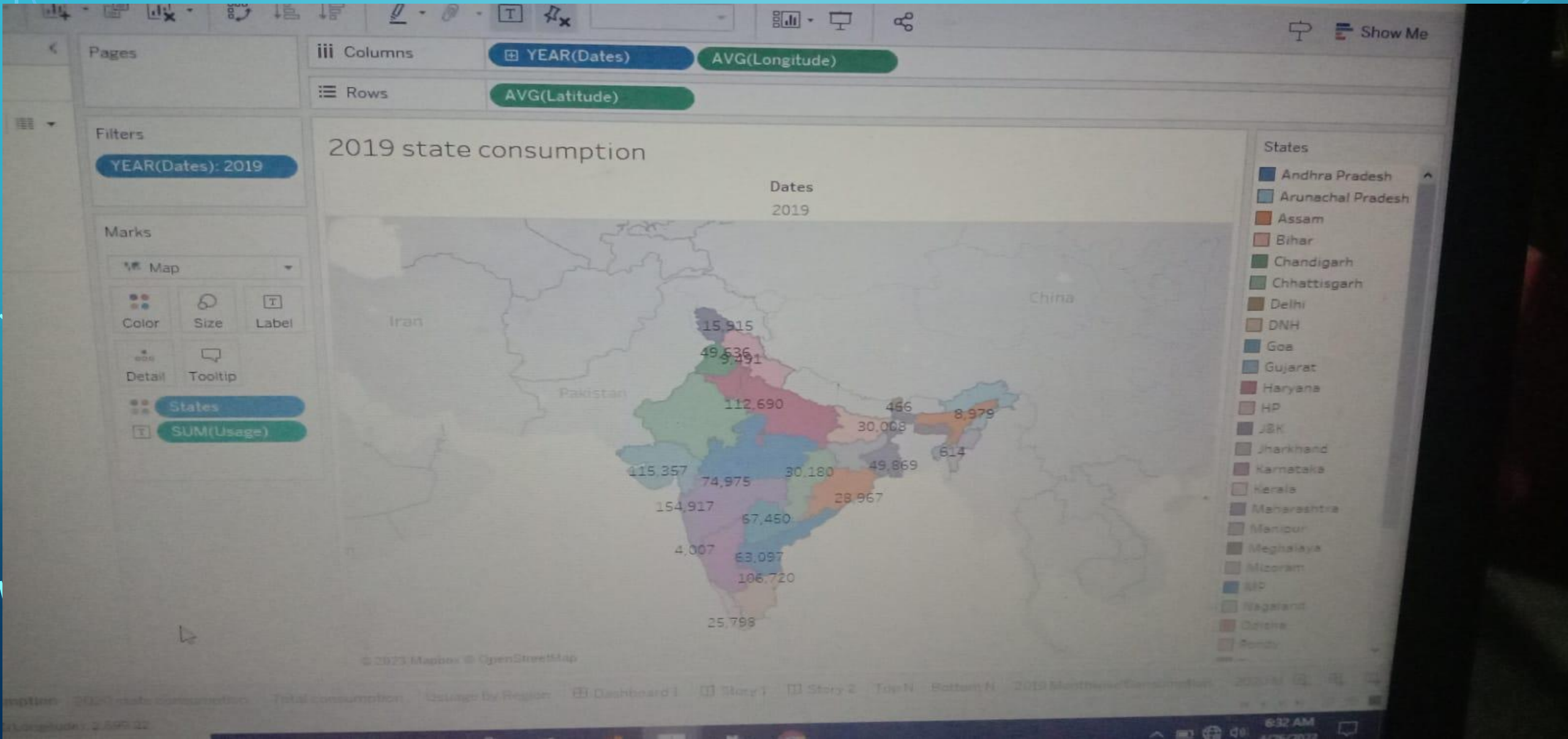

Pages
Columns
YEAR(Dates)
AVG(Longitude)
Rows
AVG(Latitude)
Show Me
Filters
YEAR(Dates): 2019
Marks
Map
Color
Size
Label
Detail
Tooltip
States
SUM(Usage)
2019 state consumption
Dates
2019
Iran
Pakistan
China
15,915
49,636
9,491
112,690
466
30,008
8,979
614
115,357
74,975
30,180
49,869
28,967
154,917
67,450
4,007
63,097
106,720
25,798
States
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chandigarh
Chhattisgarh
Delhi
DNH
Goa
Gujarat
Haryana
HP
J&K
Jharkhand
Karnataka
Kerala
Maharashtra
Manipur
Meghalaya
Mizoram
MP
Nagaland
Odisha
Punjab

Tableau - 2020 state consumption - Copy - Tableau license expires in 12 days

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics

Consumption

Search

Tables

- Dates
- Regions
- States
- *Measure Names*
- Latitude
- Longitude
- Usage
- *Consumption.csv (Count)*
- *Latitude (generated)*
- *Longitude (generated)*
- *Measure Values*

Pages

Filters

YEAR(Dates): 2020

Marks

Map

Color Size Label Detail Tooltip

States

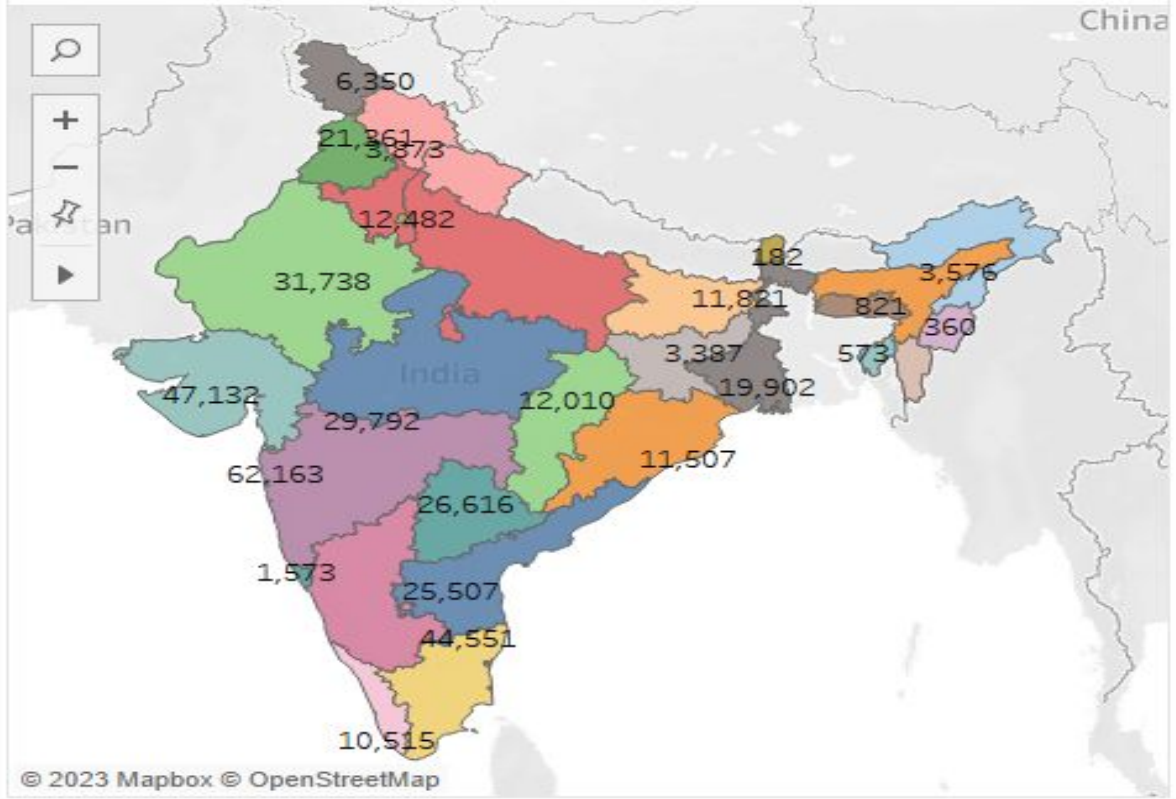
SUM(Usage)

Columns: YEAR(Dates) AVG(Longitude)

Rows: AVG(Latitude)

2020 state consumption

Dates
2020



States

- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Bihar
- Chandigarh
- Chhattisgarh
- Delhi
- DNH
- Goa
- Gujarat
- Haryana
- HP
- J&K
- Jharkhand
- Karnataka
- Kerala
- Maharashtra
- Manipur
- Meghalaya
- Mizoram
- MP
- Nagaland
- Odisha
- Pondy

Data Source | 2019 state consumption | 2020 state consumption | Sheet 3 | Sheet 4 | Dashboard 1 | Story 1 | Story 2

3 marks 1 row by 1 column SUM of AVG(Longitude): 2,699.22

Dashboard

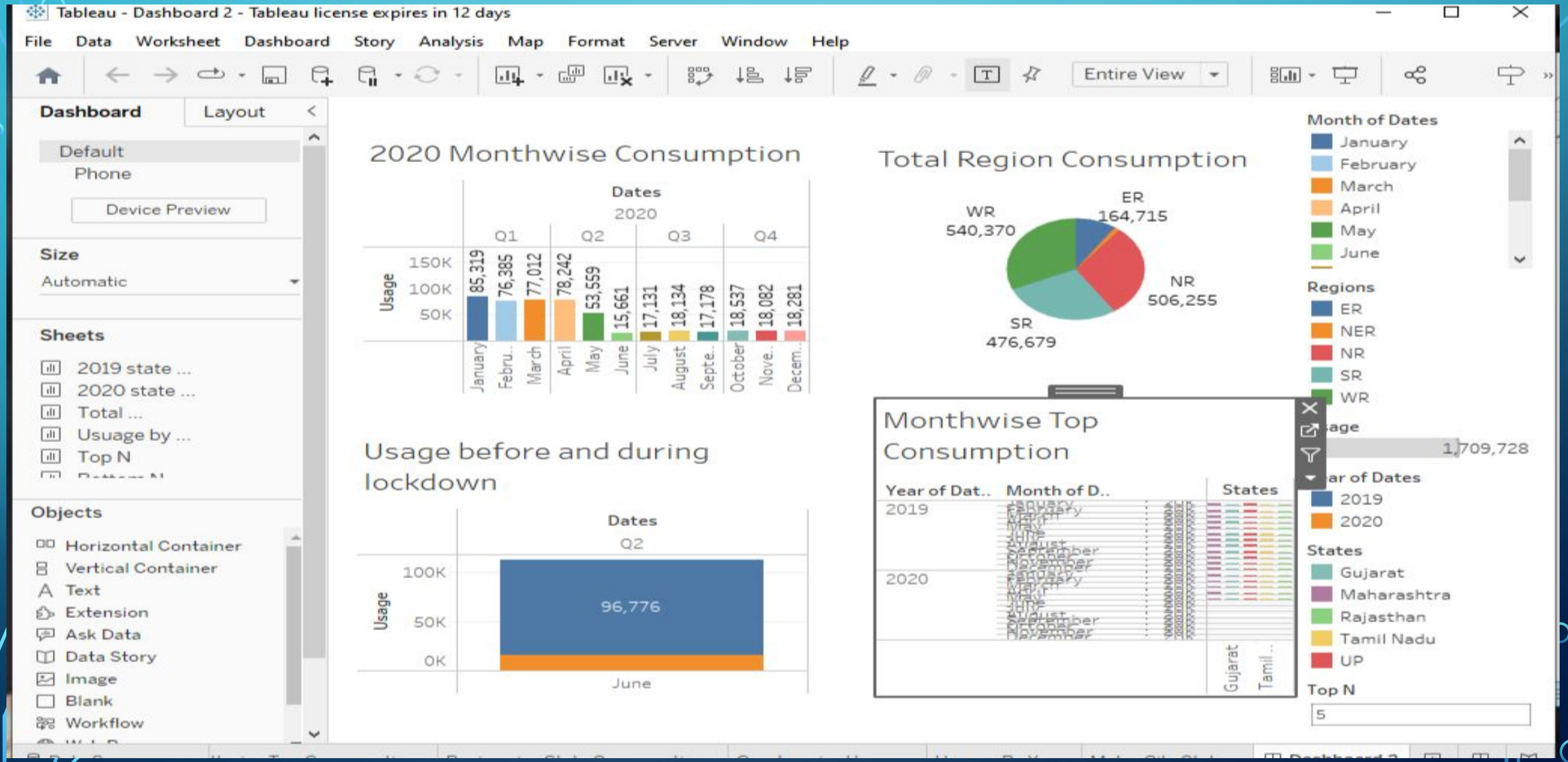


Tableau - Dashboard 2 - Tableau license expires in 12 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Dashboard Layout
Default
Phone
Device Preview
Size
Automatic
Sheets
2019 state ...
2020 state ...
Total ...
Usuage by ...
Top N
Objects
Horizontal Container
Vertical Container
Text
Extension
Ask Data
Data Story
Image
Blank
Workflow
2020 Monthwise Consumption
Dates
2020
Q1 Q2 Q3 Q4
Usage
150K
100K
50K
85,319
76,385
77,012
78,242
53,559
15,661
17,131
18,134
17,178
18,537
18,082
18,281
January Febru.. March April May June July August Septe.. October Nove.. Decem..
Usage before and during lockdown
Dates
Q2
100K
50K
0K
Usage
96,776
June
Total Region Consumption
WR
540,370
ER
164,715
NR
506,255
SR
476,679
Monthwise Top Consumption
Year of Dat..
Month of D..
States
2019
2020
Gujarat
Tamil ..
Month of Dates
January
February
March
April
May
June
Regions
ER
NER
NR
SR
WR
1,709,728
Year of Dates
2019
2020
States
Gujarat
Maharashtra
Rajasthan
Tamil Nadu
UP
Top N
5

Dashboard

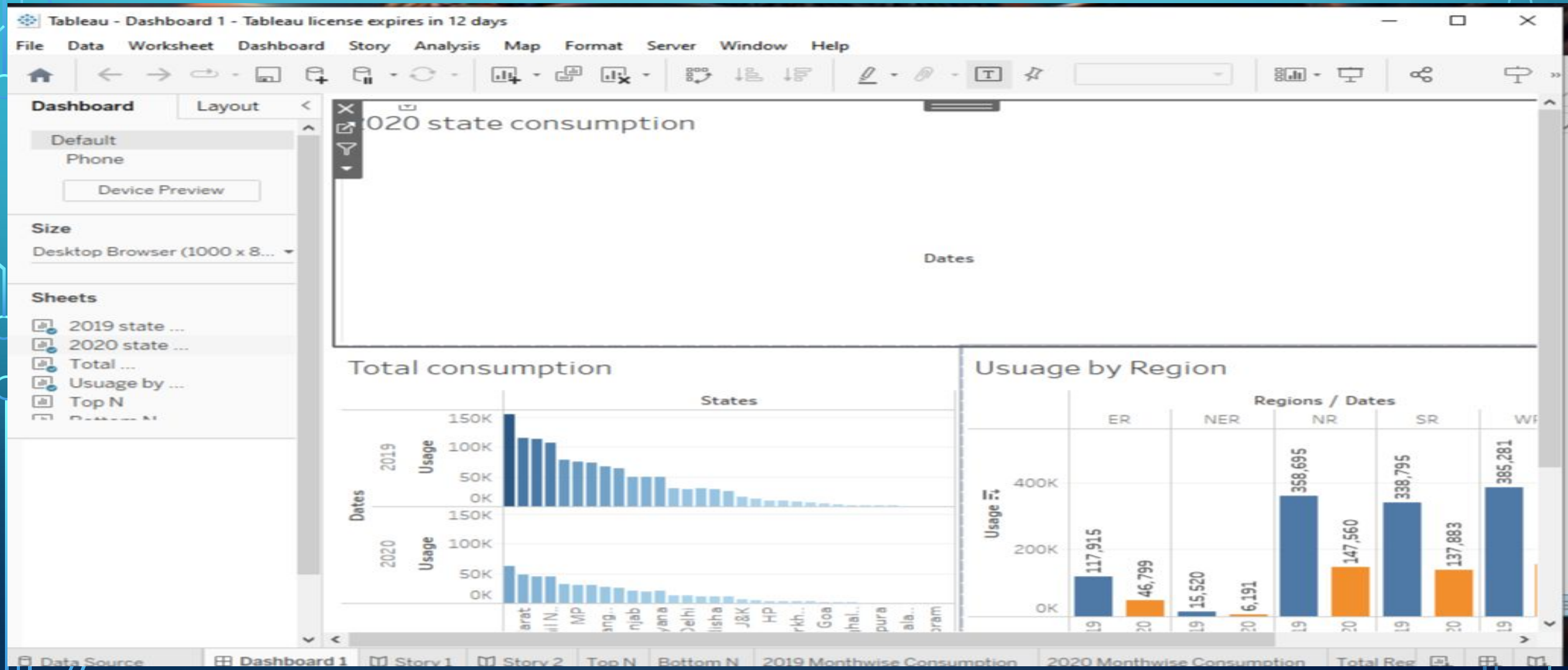


Tableau - Dashboard 1 - Tableau license expires in 12 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Dashboard
Layout
Default
Phone
Device Preview
Size
Desktop Browser (1000 x 8...
Sheets
2019 state ...
2020 state ...
Total ...
Usuage by ...
Top N
020 state consumption
Dates
Total consumption
States
Dates
2019
2020
Usage
150K
100K
50K
0K
Usuage by Region
Regions / Dates
ER
NER
NR
SR
Usage
400K
200K
0K
117,915
46,799
15,520
6,191
358,695
147,560
338,795
137,883
385,281
Data Source
Dashboard 1
Story 1
Story 2
Top N
Bottom N
2019 Monthwise Consumption
2020 Monthwise Consumption

Story

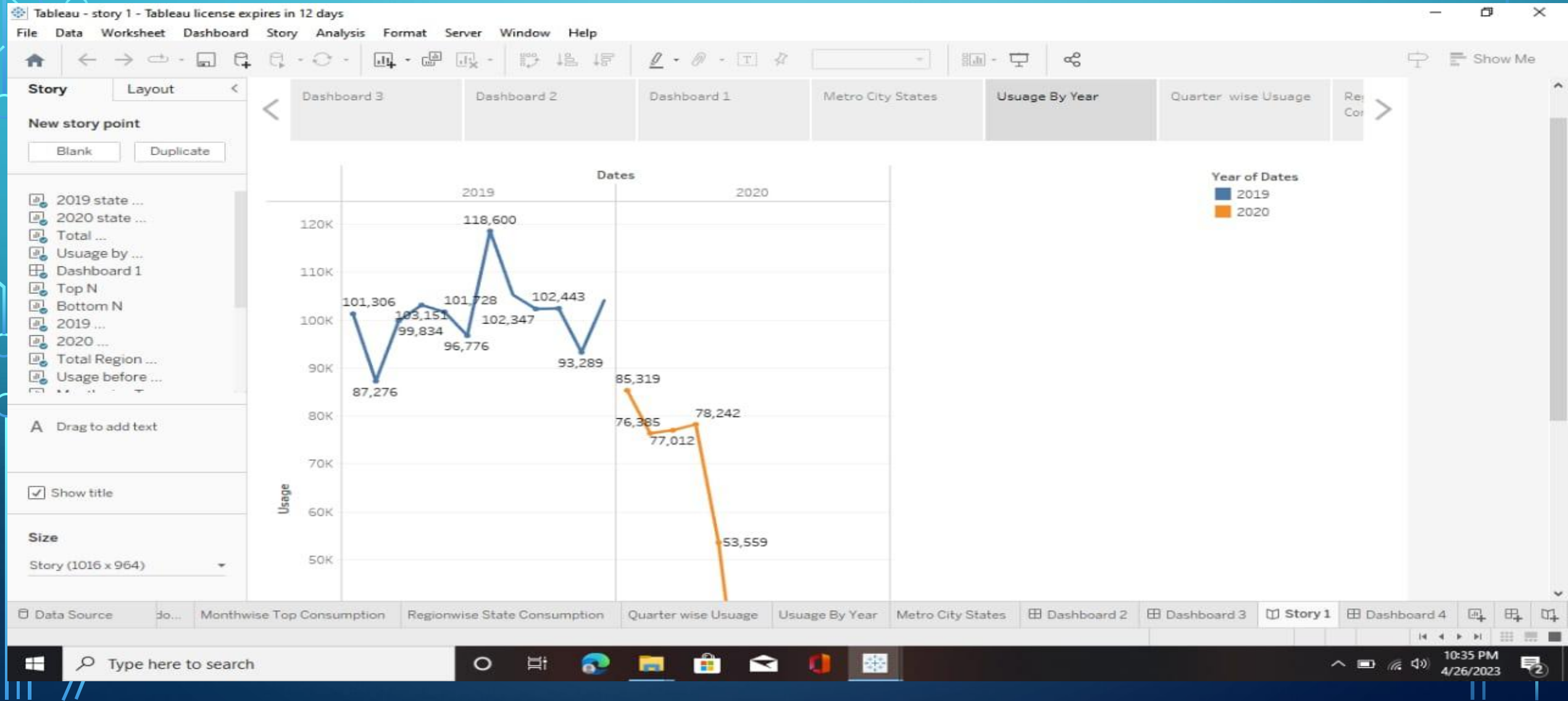


Tableau - story 1 - Tableau license expires in 12 days
File Data Worksheet Dashboard Story Analysis Format Server Window Help
Show Me
Story
Layout
New story point
Blank
Duplicate
2019 state ...
2020 state ...
Total ...
Usuage by ...
Dashboard 1
Top N
Bottom N
2019 ...
2020 ...
Total Region ...
Usage before ...
Drag to add text
Show title
Size
Story (1016 x 964)
Dashboard 3
Dashboard 2
Dashboard 1
Metro City States
Usuage By Year
Quarter wise Usuage
Dates
2019
2020
Year of Dates
2019
2020
120K
110K
100K
90K
80K
70K
60K
50K
Usage
118,600
101,306
87,276
103,151
99,834
101,728
96,776
102,347
102,443
93,289
85,319
76,385
77,012
78,242
53,559
Data Source
Monthwise Top Consumption
Regionwise State Consumption
Quarter wise Usuage
Usuage By Year
Metro City States
Dashboard 2
Dashboard 3
Story 1
Dashboard 4
Type here to search
10:35 PM
4/26/2023

4. ADVANTAGES :

* ELECTRICITY IS A FLOW OF ELECTRICAL POWER OR CHARGE.
* ELECTRICITY IS ITS RELIABLE AND UNINTERRUPTED SUPPLY RUNS THE EQUIPMENT EFFICIENCY AND CONTINUOUSLY.
* ELECTRICITY CAN PROVIDE INTERNET IN THE AREA AND IT CAN HELP THEM TO IMPROVE THE SKILL
* FOSSIL FUELS ARE LARGEST SOURCE OF ENERGY FOR ELECTRICITY GENEARATION.

5._DISADVANTAGES :

* MORE EXPENSIVE THAN GASOLINE
* LOSS OF FISH SPECIES
* SOMETIMES MESES UP WILDLIFE
* MORE POWERPLANTS AND MORE POLLUTION

CONCLUSION :

Electricity current through a given area Of a conductor is a net charge that Passes per unit time Through the conductor. To keep up a gradual current We must have a circuit with in which a electrical phenomenon Occur from lower to higher mechanical energy

appendix : <!DOCTYPE html>
<html lang="en">

<head>
<meta charset="utf-8">
<meta content="
width=device-width,
initial-scale=1.0" name="
viewport">

<title>Electricity
Consumption Analysis</title>
<meta content="" name="
description">
<meta content="" name="
keywords">

<!-- Favicons -->
<link href="
assets/img/favicon.png" rel="
icon">
<link href="
assets/img/apple-touch-icon.
png" rel="apple-touch-icon">

<!-- Google Fonts -->
<link href="