



PLUGING INTO FUTURE ;

AN EXPLORATION OF ELECTRICITY CONSUMPTION PATTERN

Project Report Template

1 INTRODUCTION

1.1 Overview

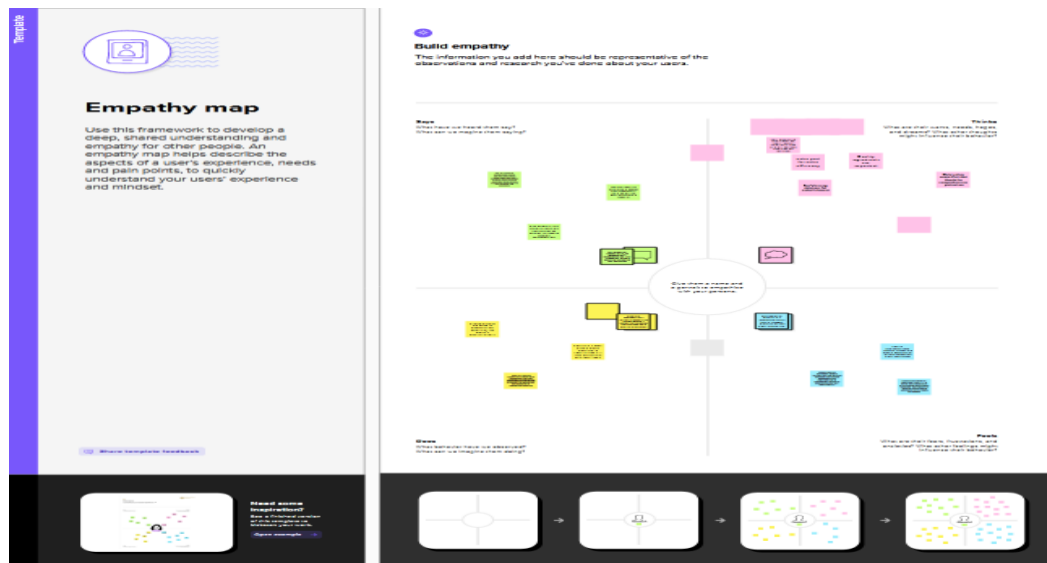
Electric and electronic devices consume electric energy to generate desired output (light, heat, motion, etc.). During operation some part of the energy is lost depending on the electrical efficiency. About a fifth of global energy is consumed as electricity: for residential, industrial, commercial, transportation and other purposes.

1.2 Purpose

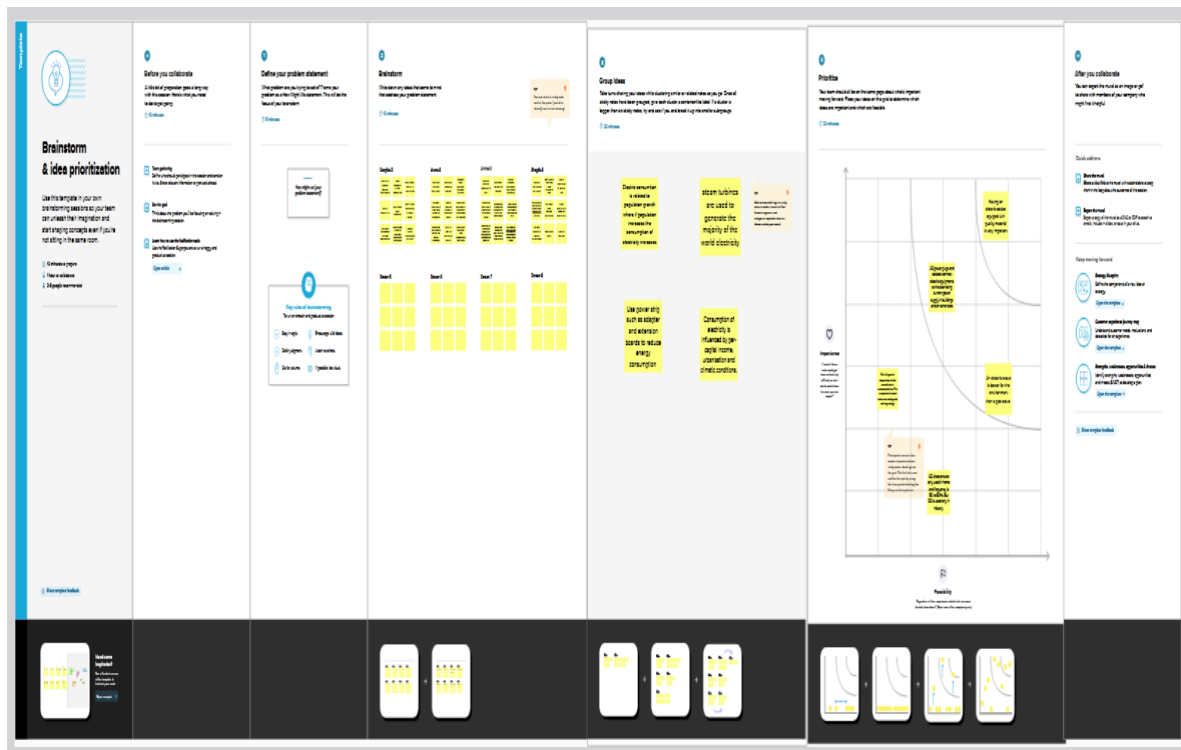
Reducing energy use in your home saves you money, increases our energy security, and reduces the pollution that is emitted from non-renewable sources of energy. If you are planning to install a small renewable energy system to make your own electricity , such as a solar electric

2 Problem Definition & Design Thinking

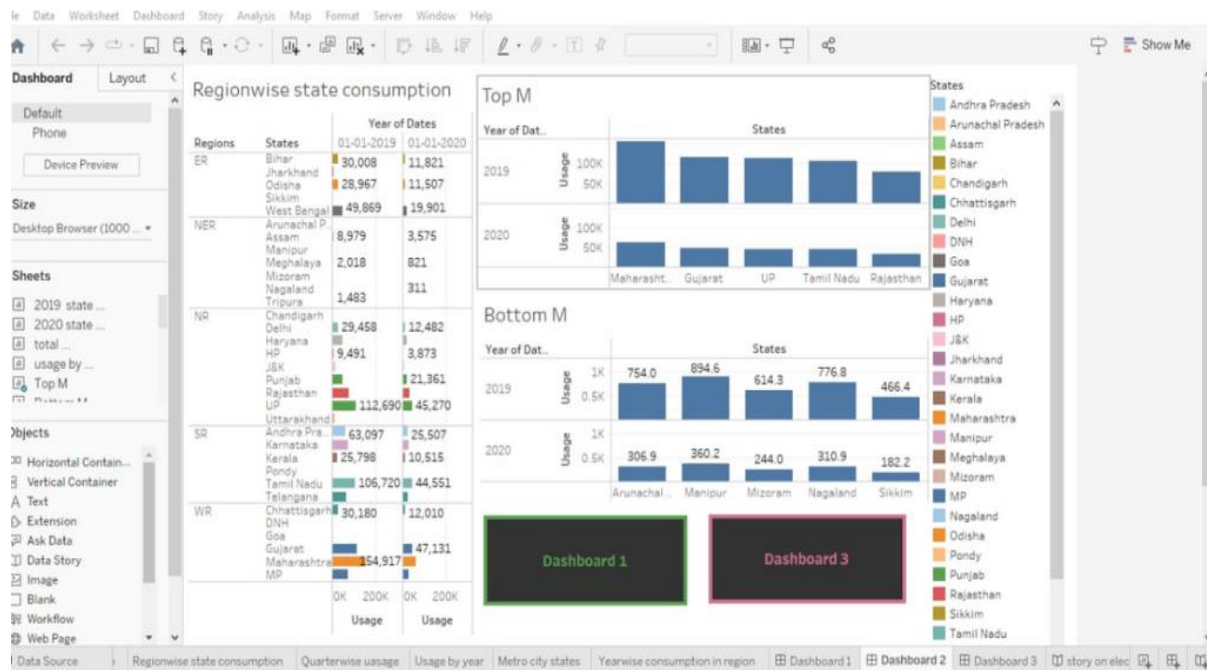
2.1 Empathy map



2.2 Ideation and Brainstorming map

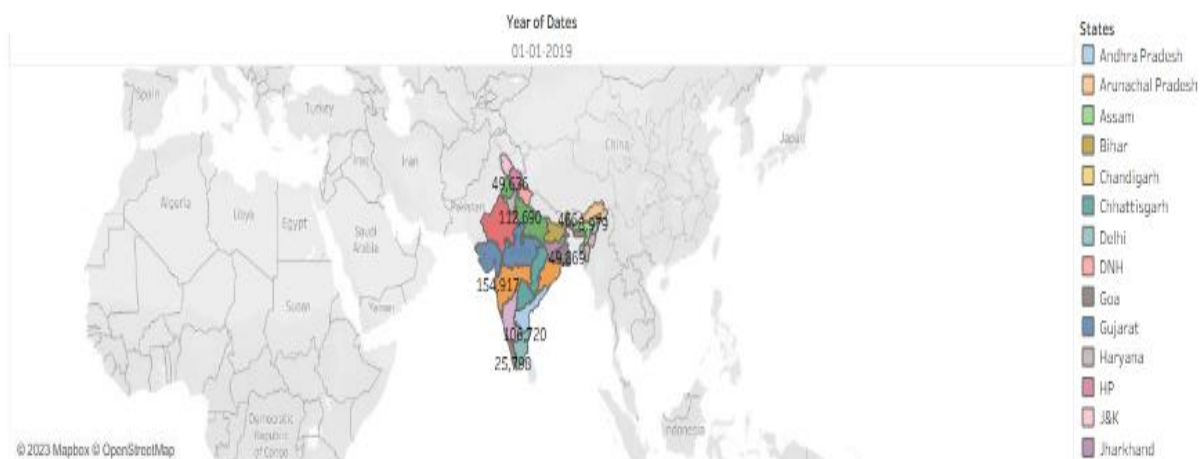


3 Result



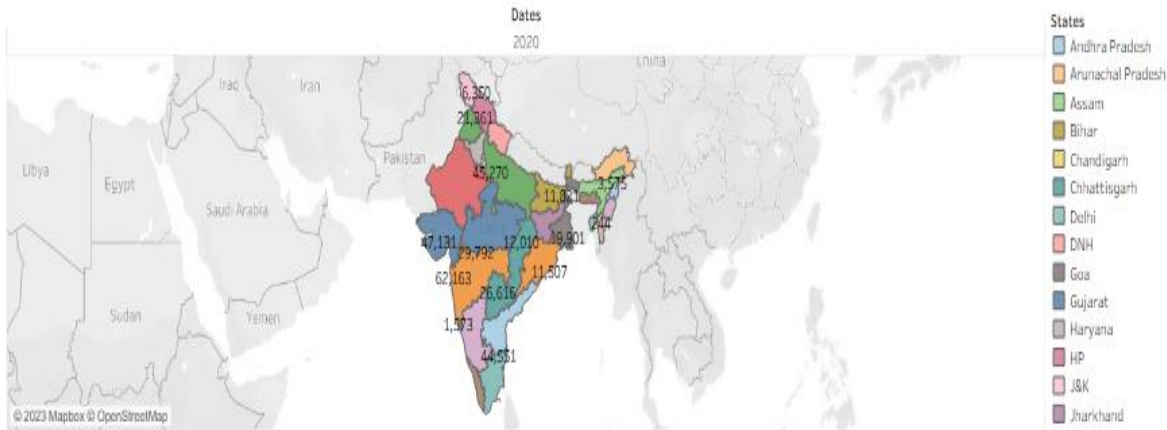
story on electricity consumption in India

Electricity consumption by Indian states in 2019	Electricity consumption by Indian states in 2020	Bar plot for total electricity consumption by Indian stat..	Regionwise plot clearly states consumption in 201..	Plot defines top consumption by Indian states in year 201..	Plot defines bottom consumption by Indian stat..	In year 2019, electricity consumption in India was hi..	In t..
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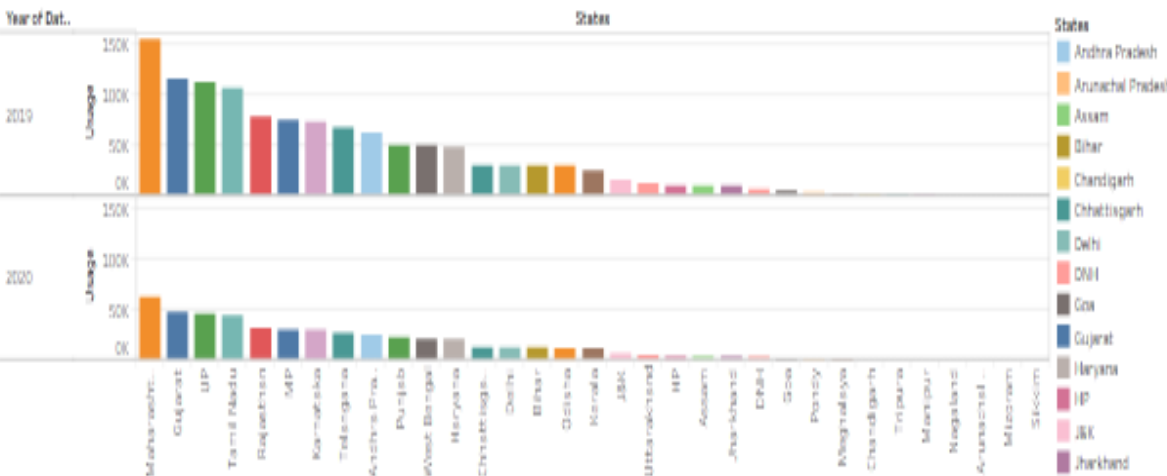
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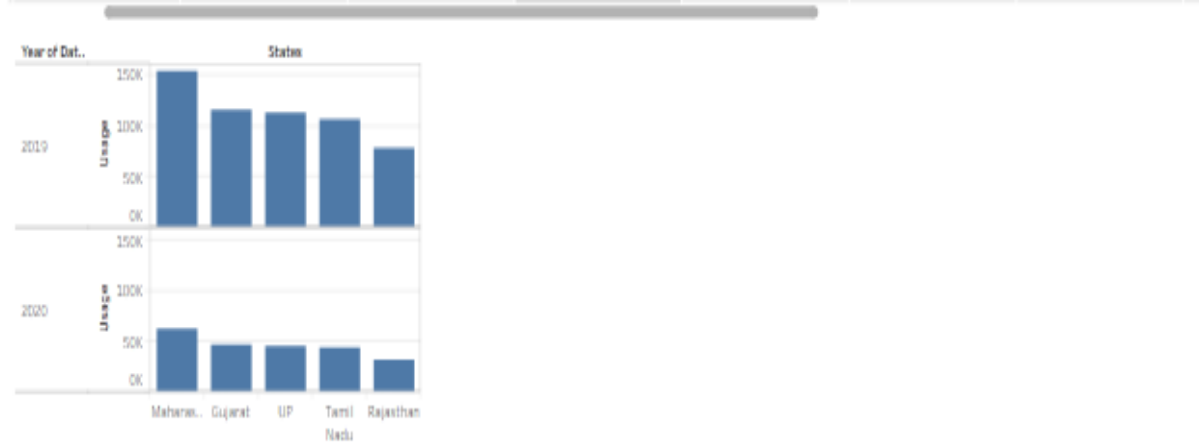
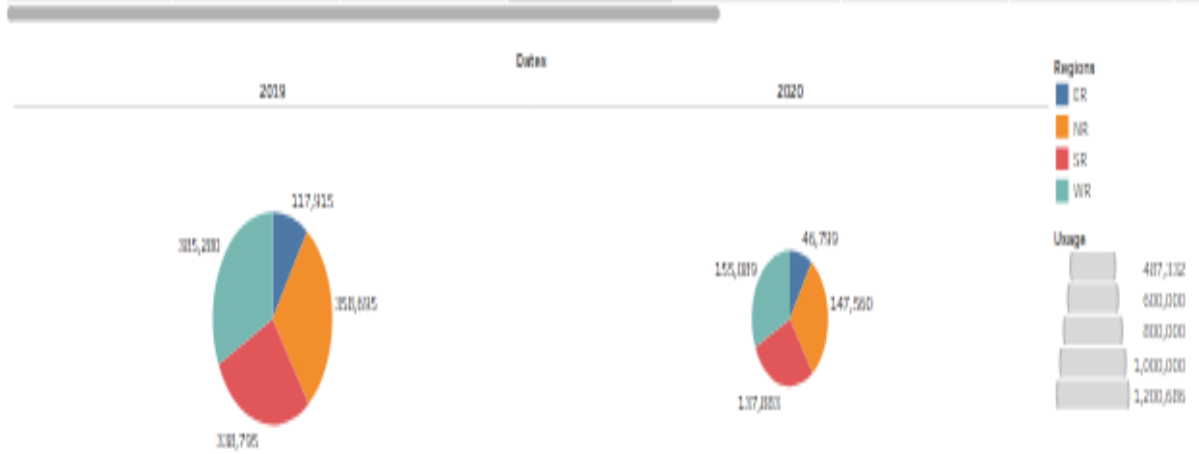
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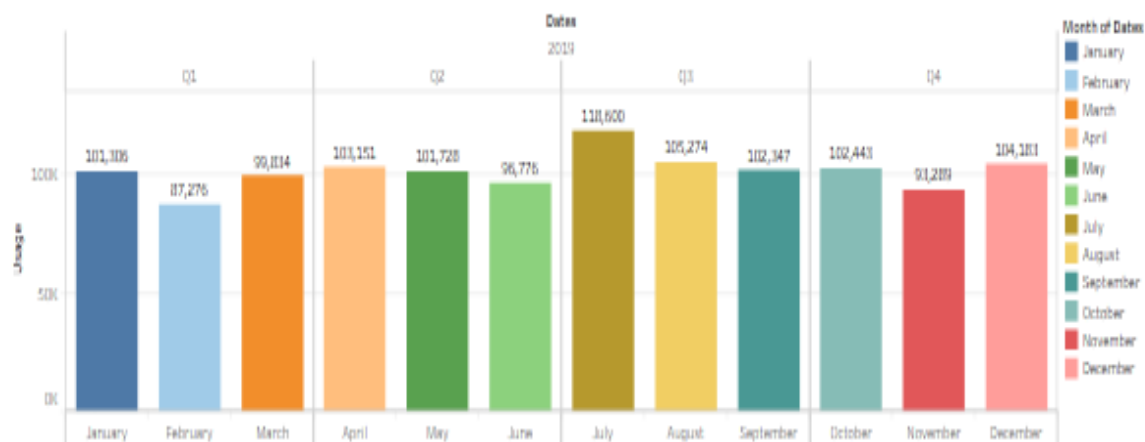
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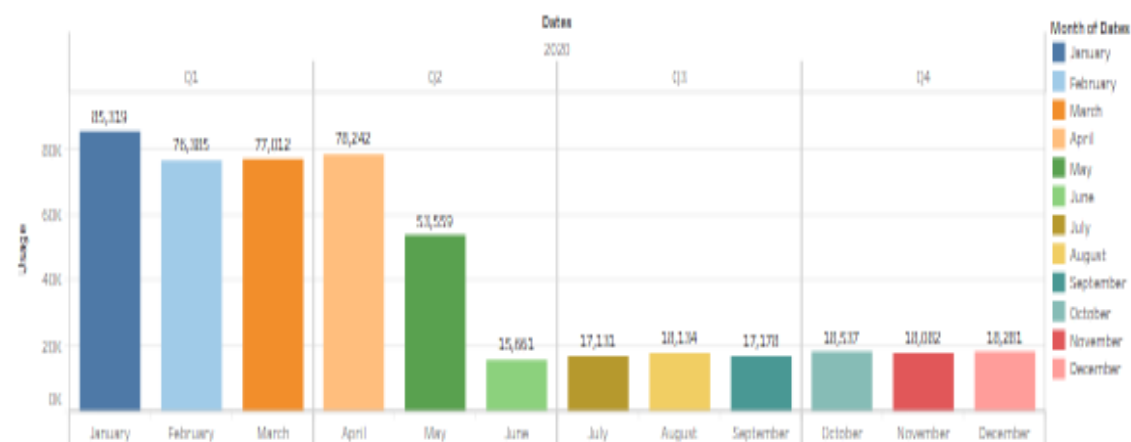
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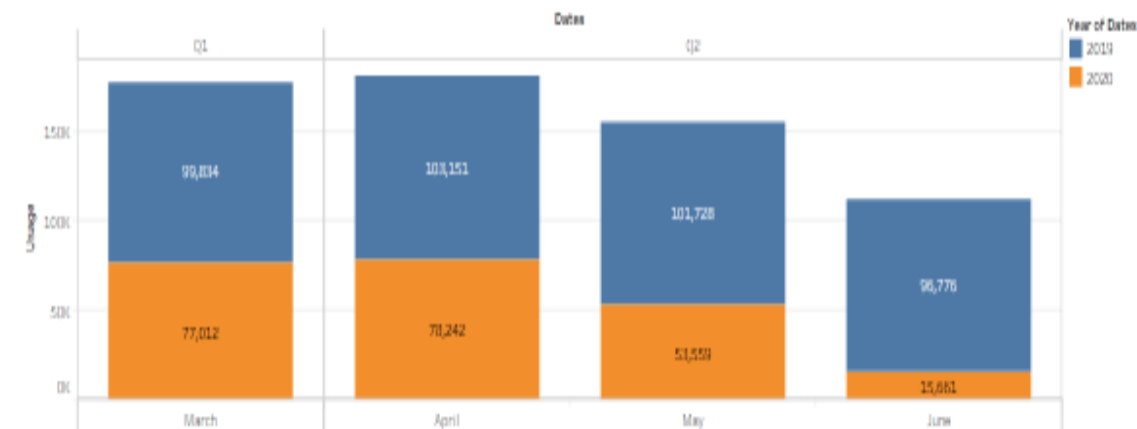
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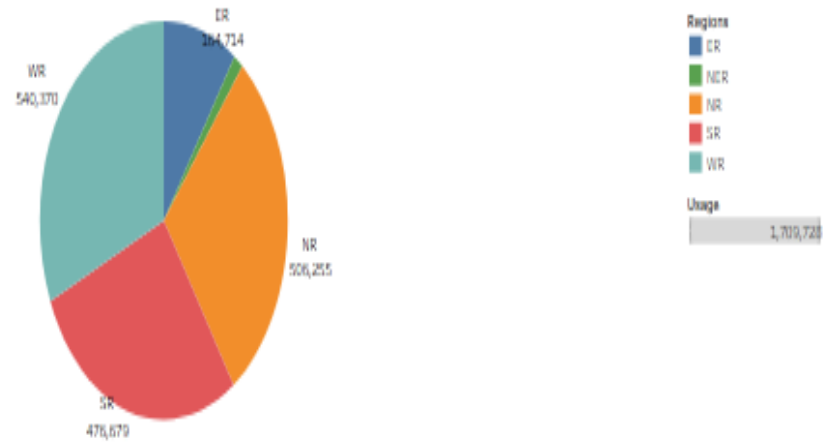
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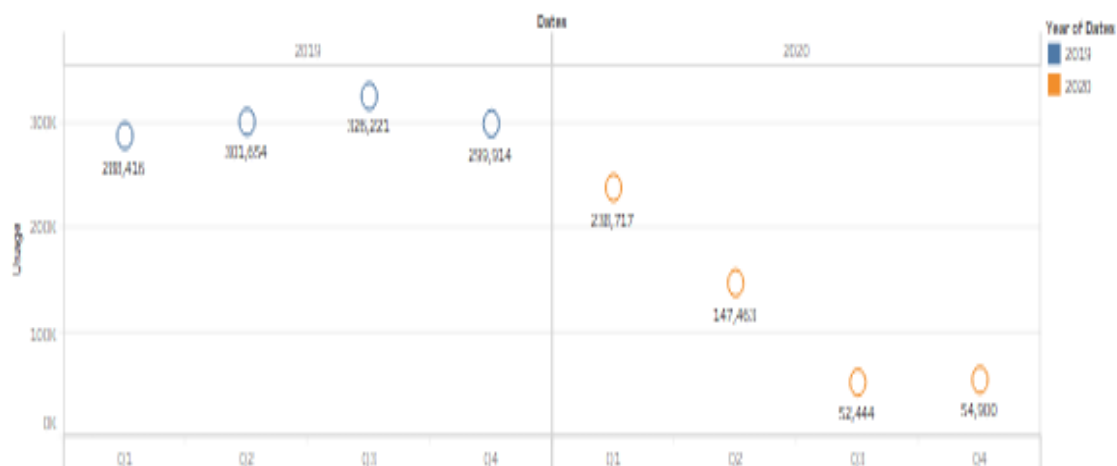
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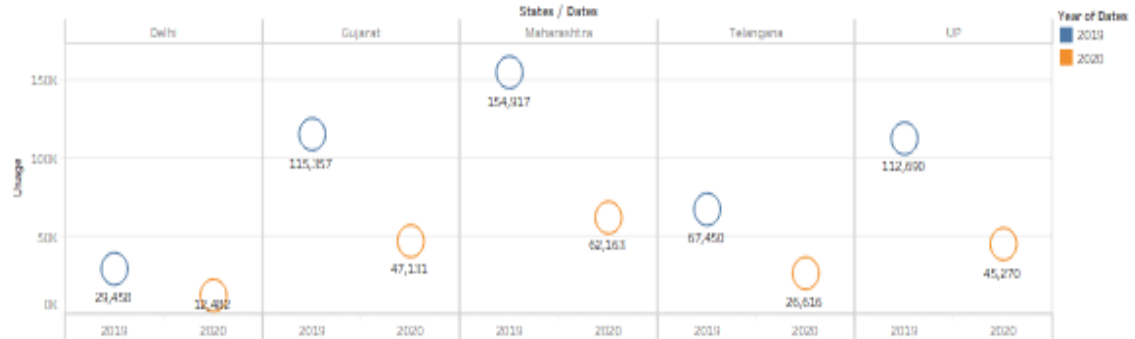
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4 ADVANTAGES

- ✚ Relatively high energy intensity
- ✚ Low cost fuel
- ✚ High energy intensity
- ✚ Low CO2 emission factor
- ✚ No contamination in flue gas (other than CO2)
- ✚ Less complex energy plant
- ✚ Less complex fuel supply

Disadvantages

- ✚ High CO2 emission factor
- ✚ Complex fuel supply chain
- ✚ Relatively high fuel prices
- ✚ External energy plant needed
- ✚ Could not be considered to be a limited resource

5. APPLICATIONS

- ◆ A whole lot of power electronics applications that we use in our daily life, such as a fan regulator, air-conditioning, Induction cooking, light dimmer, emergency lights, vacuum cleaners, etc. Are the major applications of power electronics.

- ♦ Today with the discovery of electricity , human life has become easier by using electricity to perform many functions every day such as lighting, heating, cooling of homes and operating various electrical appliances
- ♦ Power electronics are used in the generation of renewable energy, such as solar, wind etc. Which needs storage systems and conversion systems, and power conditioning systems in order to become usable
- ♦ Power electronics are used in defence and aerospace to supply power to aircraft, advance control in missiles, satellites, unmanned vehicles, space shuttle, and several other equipment of defence.

6 CONCLUSION

The electricity consumption that was measured according to the year wise consumption we can easily identify that the electricity that was consumed each year and it is decreased on each year on comparing the before year. Therefore the electricity consumption is been processed and the electricity is consumed each year.

7 FUTURE SCOPE

In the future the electricity is much consumed and the renewable source are also much used to save the electricity and much more preparations are made to consume the electricity.



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