

#### NMI2023TMID02425

Plugging into the future: An exploration of electricity consumption patterns

### 1.Introduction

### 1.1.Overview

Electricity consumption represents the amount of electrical energy that has been comsumed over aspecific time, in units of Wh(or kWh), electricity demand represents that rate at which electrical energy is consumed for a needed output rating,in units of W (orkW).



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1.2. Advantage of electric consumption patterns

Which breaks with the traditional system of generating electricityin plans that is then distributed to our homes, gives consumer the possibility of generating their own energy.

The main advantange are increased autonomy and reduced costs.

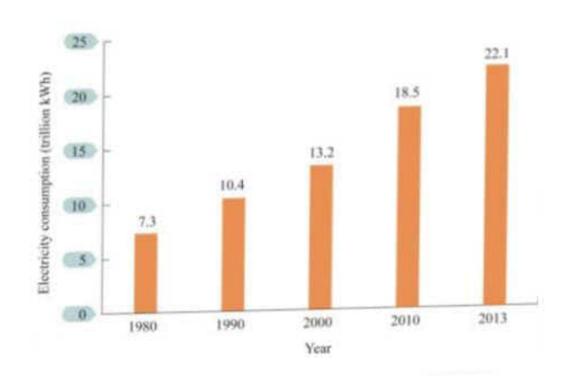
1.2.Disadvantages of electric comsupsion patterns

Power plants that burn biomass release sulfer dioxide and nitrogen oxoides, two undesirable polutants, into the air.

Power plants that burn fossil fuel pump carbon-dioxide into the admosphere.

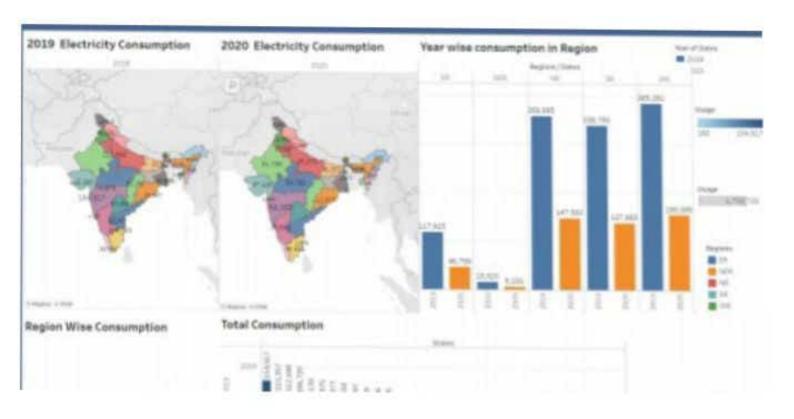


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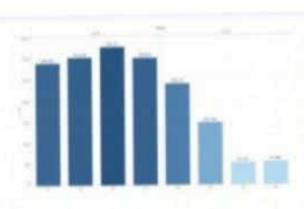


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# Visualizations



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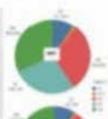
#### **Electricity Consumption in Quarters**

- Electricity Consumption in 2016 for Quarter 5 was Highest.
- Hackfally Consumption in 2019 for Quarter 1 was Linears.
- Decreally Commercian in 2020 for Quarter 3 eas Linear
- Electricity Consumption in 2020 for Quarter 1 was Highwin

#### **Electricity Consumption in Regions**

- Your Decreop consequent in Western Region is Highers.
- Y. Total Electricity astrocomprise in North Eastern Rigitin to Limete
- Electricity Consumption in 2020 for Quarter 3 wisc creams.







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### 2.Conclusion

Current through a given area of a conductor is the net chargethat passes per unit time through the conductor.

To keep up a gradual current, we must have a circuit within which an electrical phenomenon occurs from lower to higher mechanial energy



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3.Future scope

As the Indian government plans to increse electrification of rail-route kilometers from 40 percent presently to 77 percentby 2022, the levelof electricity consumption achieved by 2030 could be 35\_43 TWh, growing at 5.0\_6.3 percent CAGR from 17TWh in 2015