

# Analyzing Electricity Generation Data: A Tableau Visualization Case Study

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# Introduction to Dataset

- Dataset consists of power generation across various Indian power plants from 2017 to 2022.

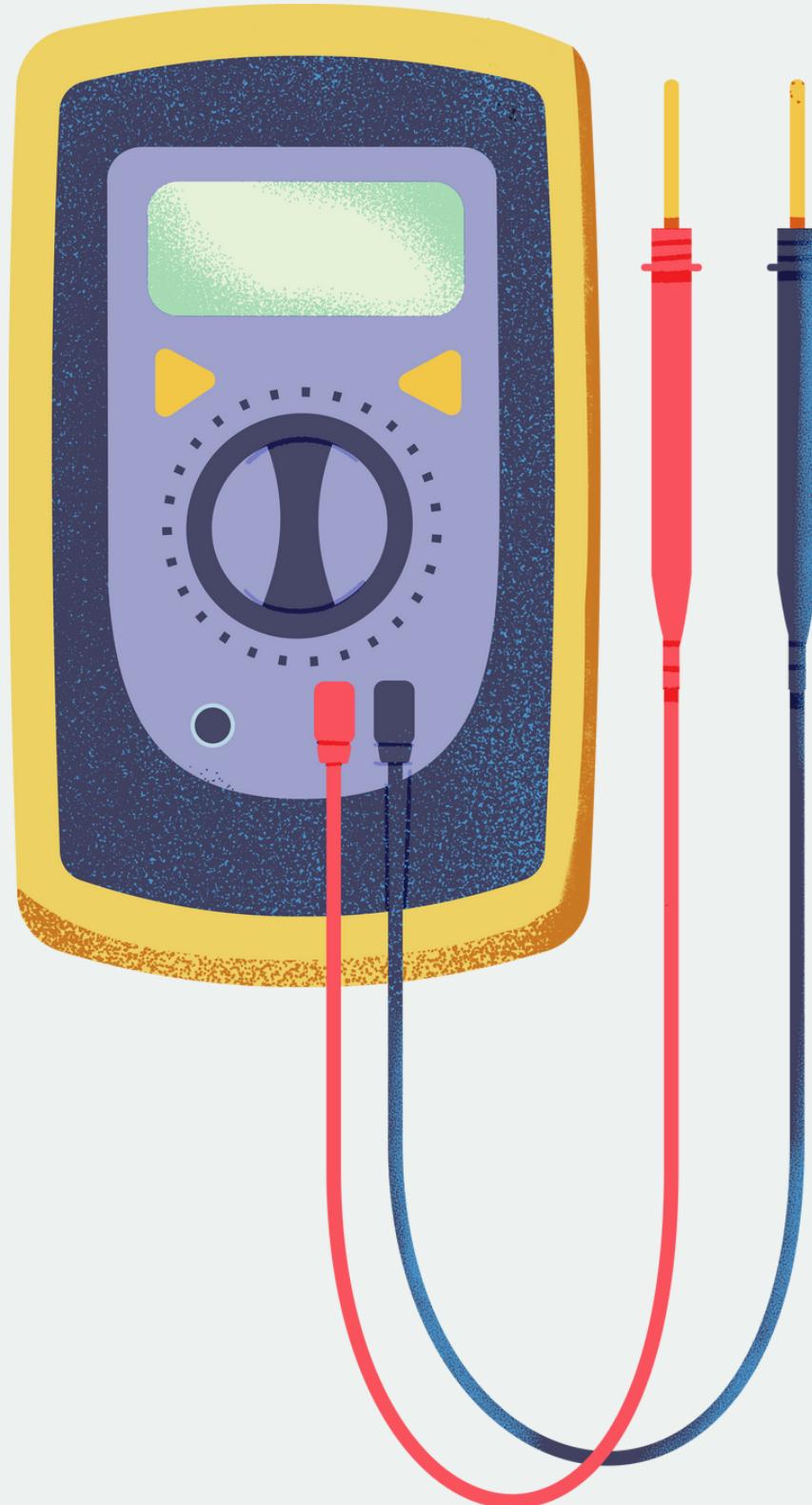
## Data Fields

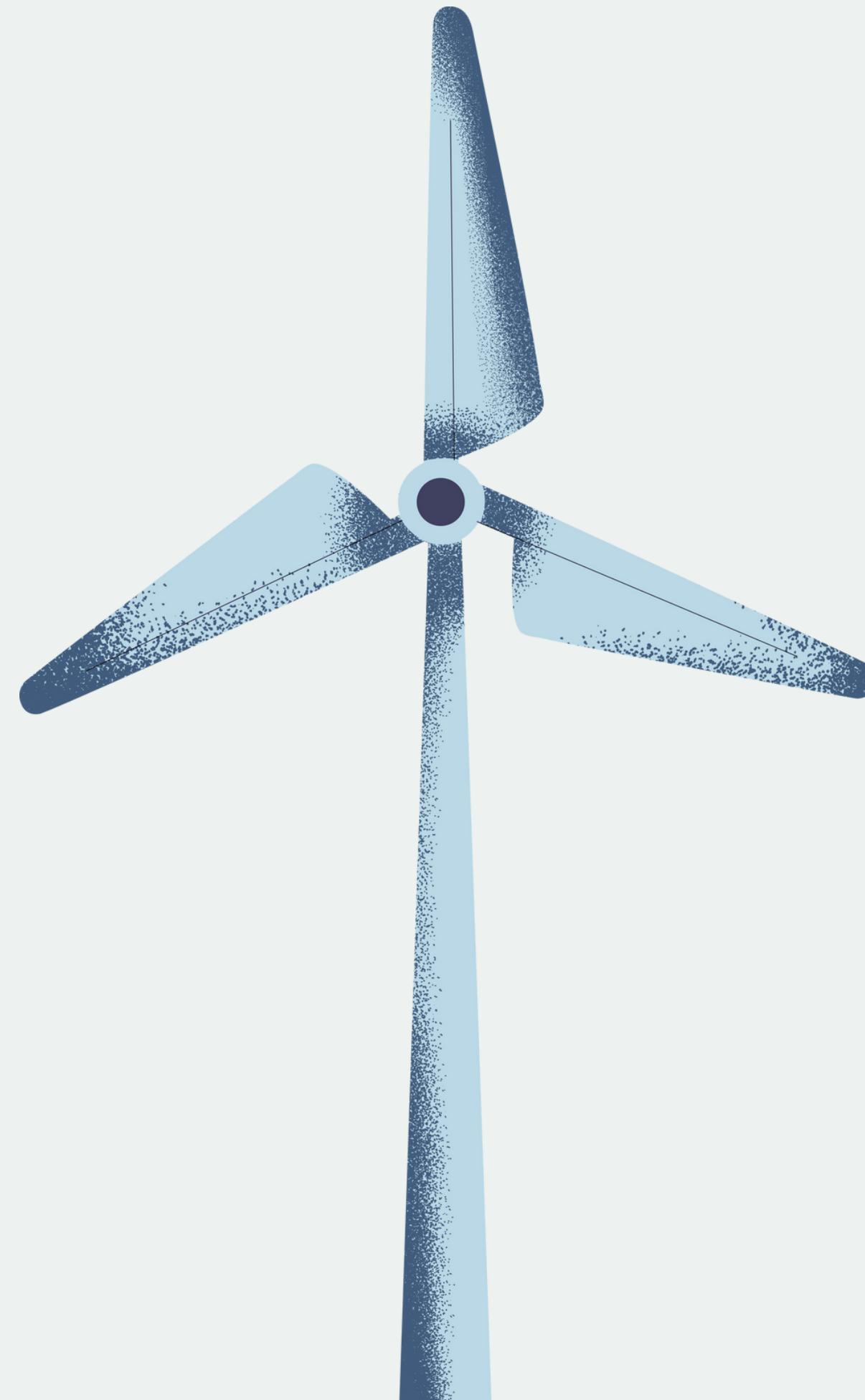
- The data fields include Actual power, Monitored power, Plant station, Fuel type, Date etc.

## Target Audience

The target audience include

- Executives and Decision-Makers
- Government and Policy makers
- Environmental and Conservation Groups
- Investors and Financial Institutions





# Importance of Electricity

- Electricity serves as an essential and integral part of our daily lives fulfilling crucial needs and playing a vital role in modern living.
- Electricity is produced through various sources like Renewable and Non-Renewable energy.
- Non- Renewable Energy sources include Thermal, Gas, Oil, Natural and Nuclear etc.
- Renewable Energy sources include Solar, Hydro, Wind and Tidal etc.
- Non-renewables have historically been major sources of energy. Renewable sources been experiencing rapid growth.

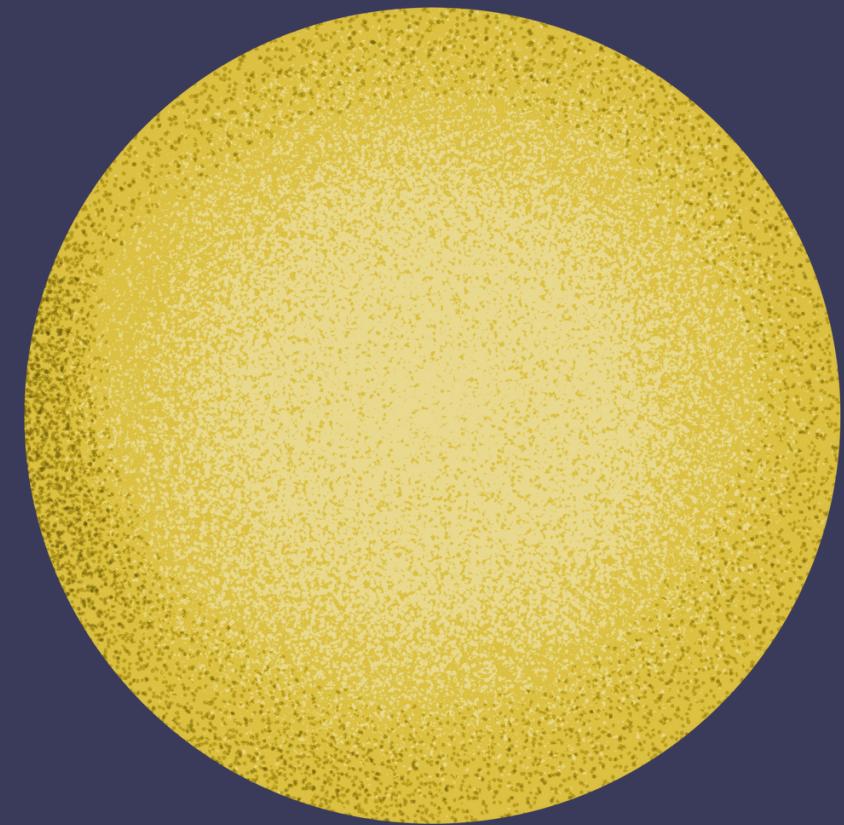
# The Big Idea Sentence

As energy data analysts, our main aim is to break down and understand complex energy data sets, revealing valuable insights that guide smart choices and shape plans for a sustainable and efficient energy future.



# Conclusion

- Renewable energy sources generate minimal greenhouse gas emissions during power generation, contributing to cleaner air and reduced climate impact.
- Renewable energy sources ensure long-term availability and reduced dependency on finite resources.
- Non-Renewable energy sources primarily relies on coal, natural gas, and oil for electricity generation.
- Non-Renewable energy sources has high emissions of greenhouse gases (CO<sub>2</sub>, methane, etc.) contribute significantly to climate change.
- Renewable energy is on the rise due to better technology and a worldwide push for cleaner options, while efforts to make non-renewables cleaner continue alongside.



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# Thank you

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