

Future Electricity Consumption Analysis & Forecasting

Project Dashboard Components

- Overview KPIs: Total Consumption, Forecasted Consumption, Growth Rate, Peak Demand, Renewable Contribution, Per Capita Consumption.
- Historical Consumption Trend: Line chart showing past 10–20 years with forecast projection.
- Region-wise Consumption: Map or bar chart highlighting high-demand regions.
- Sector-wise Usage: Stacked bar chart (Residential, Commercial, Industrial, Agricultural).
- Future Forecast Analysis: 5–10 year prediction with confidence intervals.
- Renewable vs Non-Renewable Comparison: Area chart showing transition trends.

Project Story (Tableau Story Points)

- Introduction: Importance of analyzing electricity consumption trends for sustainable planning.
- Historical Analysis: Consumption has steadily increased due to urbanization and industrial growth.
- Regional Insights: Urban and industrial regions show significantly higher demand.
- Sector Insights: Industrial sector contributes the highest share, followed by residential.
- Future Forecast: Demand expected to grow annually, creating potential supply challenges.
- Sustainability Focus: Increasing renewable energy share is crucial to meet future demand.
- Conclusion: Strategic planning and renewable integration are essential for future energy security.