

Future Electricity Consumption – Tableau Report

1. Brainstorming

- Analyze historical electricity consumption trends by year, region, and sector.
- Identify peak demand periods and seasonal variations.
- Compare residential, commercial, and industrial electricity usage.
- Evaluate the impact of population growth and urbanization.
- Study renewable energy contribution and fossil fuel dependency.
- Forecast future electricity demand using trend analysis.
- Visualize data using Tableau dashboards (line charts, bar graphs, heat maps).
- Identify energy efficiency opportunities and conservation strategies.

2. Problem Statement

Electricity consumption is increasing due to rapid industrialization, urbanization, and population growth. However, inefficient usage patterns, peak load stress, and dependency on non-renewable energy sources create sustainability challenges. There is a need to analyze historical consumption data and forecast future trends to support effective energy planning and policy decisions. This Tableau report aims to provide interactive visual insights into electricity consumption patterns, identify key drivers of demand, and support strategic decision-making for sustainable energy management.