

## **Brainstorming – Idea Generation – Prioritization Template**

Date	20 February 2026
Team ID	LTVIP2026TMIDS52376
Project Name	Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau
Maximum Marks	4 Marks

### **Brainstroming Idea – Prioritization Template:**

Electricity consumption plays a critical role in economic development, industrial growth, and daily life activities. Understanding patterns of electricity usage can help optimize resource allocation, reduce wastage, and support sustainable energy initiatives.

The dataset contains time-series electricity consumption data across Indian states and regions from January 2019 to December 2020. The presence of COVID-19 lockdown during 2020 introduces an additional dimension for comparative analysis.

This project aims to analyze:

- Time-of-day usage patterns
- Seasonal variations
- Sector-wise consumption
- Region-wise electricity distribution
- Lockdown impact analysis

## Idea Prioritization Matrix

### Criteria:

- Social Impact
- Technical Feasibility
- Data Availability

### High Priority Features:

- Time-Series Consumption Trend
- 2019 vs 2020 Comparison
- Region-wise Usage
- Lockdown Before/After Analysis
- Top and Bottom States

### Medium Priority:

- Forecasting
- Advanced calculated fields

## Final Selected Approach

### We will:

1. Store data in SQL database
2. Perform SQL queries for aggregation
3. Connect database to Tableau
4. Create visualizations
5. Build interactive dashboard
6. Create story presentation
7. Publish to Tableau Public
8. Integrate with Flask

### Expected Outcome

- Identify seasonal trends
- Analyze pandemic impact
- Support energy policy decisions
- Provide insights for grid optimization
- Help in sustainable energy planning