Brainstorming & Idea Prioritization Template

Date: 24 JUNE 2025

Team ID: LTVIP2025TMID48457

Project Name: Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau

Maximum Marks: 4 Marks

Step 1: Team Gathering, Collaboration & Select the Problem Statement

Problem Statement:

Understanding electricity consumption patterns across regions and sectors in India to identify peak demand times, seasonal usage variations, and sector-wise consumption using data visualization techniques in Tableau. The goal is to drive energy awareness and support efficient energy planning for stakeholders.

Idea	Impact (H/M/L)	Feasibility (H/M/L)	Priority

Visualize electricity consumption across states	High	High	High

Step 2: Brainstorm, Idea Listing and Grouping

S. No	Ideas Generated	Category
1	Visualize electricity consumption across different Indian states	Regional Analysis
2	Analyze consumption trends by sectors (residential, commercial, industrial)	Sectoral Insights
3	Identify peak usage hours and visualize as heatmaps	Time-based Patterns
4	Compare consumption trends across years/months (seasonal patterns)	Seasonal Variations
5	Use Tableau filters to enable dynamic interaction	Visualization Enhancements
6	Include policy implications and energy-saving tips based on findings	Impact & Recommendations
7	Forecast future consumption using historical data trends	Predictive Analysis
8	Highlight states with highest and lowest per capita electricity usage	Benchmarking
9	Show changes in urban vs rural electricity consumption	Demographic Comparison
10	Integrate external datasets like population or weather for deeper insights	Data Enrichment

Step 3: Idea Prioritization

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Analyze sector-wise consumption	High	High	High
Identify peak usage hours and create heatmaps	Medium	Medium	Medium
Compare seasonal trends across years	High	Medium	High
Enable interactive dashboards with filters	Medium	High	High
Forecast future usage trends	High	Low	Medium
Show per capita usage across states	Medium	High	Medium
Compare urban vs rural consumption	Medium	Medium	Medium
Use external data (weather, population)	High	Medium	Medium
Add energy-saving tips and policy implications	Medium	High	Medium