

Project Design Phase
Problem – Solution Fit

Date	18 February, 2026
Team ID	LTVIP2026TMIDS40169
Project Name	Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau
Maximum Marks	2 Marks

Problem – Solution Fit :

◇ **1. What is the Problem?**

Electricity boards struggle to analyze large state-wise and regional consumption datasets. Static reports make it difficult to identify peak demand, seasonal trends, and lockdown impact, leading to inefficient planning.

◇ **2. What is the Idea / Solution?**

An interactive Tableau dashboard that visualizes:

- State & Region consumption (2019 vs 2020)
- Monthly & Quarterly trends
- Top/Bottom states
- Lockdown impact

With filters and drill-down features for dynamic analysis.

◇ **3. What is the Novelty / Uniqueness?**

- Combines geographic, seasonal, and comparative analysis
 - Interactive for non-technical users
 - Lockdown impact visualization
 - Story-based presentation in Tableau
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◇ **4. What is the Social Impact / Customer Satisfaction?**

- Better energy planning

- Reduced power shortages
- Improved infrastructure decisions
- Reliable electricity supply for citizens

◇ **5. What is the Business Model (Revenue Model)?**

- Dashboard-as-a-Service
- Subscription-based analytics
- Consulting for energy planning
- SaaS model via Tableau Cloud

◇ **6. How is the Solution Scalable?**

- Can add new years and datasets
- Cloud-compatible
- Supports additional KPIs and filters
- Extendable to predictive analytics