# Project Design Phase-I
# Proposed Solution Template

| Date | 20 February 2026 |
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| Team ID | LTVIP2026TMIDS66673 |
| Project Name | Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

| S.No. | Parameter | Description |
|-------|-----------|-------------|
| 1. | Problem Statement (Problem to be solved) | Manual analysis of electricity consumption data is time-consuming and does not clearly reveal peak demand, seasonal trends, or regional usage patterns, making efficient energy planning difficult. |
| 2. | Idea / Solution description | The solution analyzes electricity consumption data using Python and visualizes insights through interactive Tableau dashboards to identify peak demand, seasonal trends, and regional variations. |
| 3. | Novelty / Uniqueness | Integrates automated data processing with interactive Tableau dashboards, allowing users to dynamically explore electricity usage without technical expertise. |
| 4. | Social Impact / Customer Satisfaction | Helps energy providers and policymakers optimize electricity usage, reduce wastage, and improve planning, resulting in better service reliability and customer awareness. |
| 5. | Business Model (Revenue Model) | Offered as a subscription-based dashboard, licensed analytics tool for energy agencies, or a consulting solution for electricity consumption analysis. |
| 6. | Scalability of the Solution | Scalable architecture supports large datasets, cloud storage, and future integration of additional regions, years, or real-time electricity data. |