Project Design Phase-I
Proposed Solution Template

Date	20 February 2026
Team ID	LTVIP2026TMIDS82725
Project Name	Plugging into the future:An exploration of electricity consumption pattern 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)	Electricity consumption patterns are often complex and difficult to interpret using raw data alone. Without proper visualization and analysis, it is challenging for organizations and households to identify wastage, peak usage periods, and opportunities for energy optimization. This project aims to analyze electricity consumption data to uncover meaningful trends and support smarter energy decisions.
2.	Idea / Solution description	The project uses Tableau to visualize and analyze electricity consumption datasets. Interactive dashboards will be created to display usage trends, peak demand periods, seasonal variations, and consumption comparisons. These visual insights will help users understand energy behavior and make informed decisions to improve efficiency
3.	Novelty / Uniqueness	Unlike traditional spreadsheet-based analysis, this project leverages dynamic visual storytelling through Tableau dashboards. The interactive design allows real-time exploration of consumption trends, making complex energy data easier to understand for both technical and non-technical users.
4.	Social Impact / Customer Satisfaction	Better understanding of electricity usage promotes energy conservation, cost savings, and environmental responsibility. Users can identify wasteful habits and optimize consumption, contributing to sustainable living and improved customer awareness.
5.	Business Model (Revenue Model)	The solution can be offered as a data analytics dashboard service for energy providers, smart home companies, or organizations seeking energy efficiency insights. Revenue may come from dashboard customization, consulting,

		subscription access, or analytics reporting services.
6.	Scalability of the Solution	The system can scale to handle larger datasets from smart meters, cities, or industries. Additional analytics features, predictive models, and IoT integrations can be incorporated, making it adaptable for broader energy management applications.