

Project Design Phase
Proposed Solution Template

Date	20/06/25
Team ID	LTVIP2025TMID59112
Project Name	Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1	Problem Statement	Electricity usage data in India is often raw and scattered, making it hard for utility providers and policymakers to analyze trends and make informed decisions.
2	Idea / Solution Description	Our solution transforms raw electricity consumption data into interactive dashboards using Tableau. Data is cleaned, stored in MySQL, and visualized through a web app built with Flask.
3	Novelty / Uniqueness	Unlike static reports, our system provides real-time, interactive insights. It's flexible, extendable, and integrates forecasting using optional ML tools.
4	Social Impact / Customer Satisfaction	Helps improve energy planning, reduce wastage, and supports better decision-making by energy companies and government bodies.
5	Business Model (Revenue Model)	Can be offered as a SaaS tool to utility firms and government bodies. Advanced features like forecasting or data export can be monetized.
6	Scalability of the Solution	Built on a modular and cloud-friendly architecture, it can be expanded to cover more regions, sectors, or even other utilities like water or gas.