

Project Design Phase
Proposed Solution Template

Date	20 June 2025
Team ID	LTVIP2025TMID51504
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 the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Electricity users lack tools to visualize and understand their power consumption. They receive plain bills without insights into usage patterns or how to save.
2.	Idea / Solution description	We built a Tableau dashboard embedded in a Flask web app that shows usage trends, forecasts future bills, and helps users make informed energy-saving decisions.
3.	Novelty / Uniqueness	The solution combines forecast charts, region-wise filters, and lockdown impact analysis — all in a no-login, user-friendly dashboard accessible via web.
4.	Social Impact / Customer Satisfaction	The project helps users reduce electricity bills, promotes responsible usage, and supports sustainability by increasing awareness of energy consumption.
5.	Business Model (Revenue Model)	A free version is offered on Tableau Public. A premium version could offer personalized insights, community dashboards, or branded energy tips.
6.	Scalability of the Solution	It can scale across states, integrate other utilities (water/gas), connect to smart meters, and evolve into a full-featured consumption analytics platform.