

Project Design Phase

Solution Architecture

Date	20 June 2025
Team ID	LTVIP2025TMID51504
Project Name	Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture in this project bridges the gap between a real-world user need understanding and managing electricity consumption and a tech-driven, visual solution using **Tableau** and **Flask**.

Its goals are to:

- Identify the best tools and technologies (like Tableau, Python, Flask) to analyze and visualize electricity data.
- Describe how each system component (data source, backend, dashboard, user access) interacts to deliver the solution.
- Define key features like filtering, forecasting, regional breakdowns, and storytelling.
- Plan the development phases — from data collection to embedding the dashboard.
- Deliver a user-friendly web-based system using open-source tools that requires zero technical knowledge from the user.

Solution Architecture Diagram:

