

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	19 June 2025
Team ID	LTVIP2025TMID51504
Project Name	Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau
Maximum Marks	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Dashboard	View electricity usage by month/state View charts and graphs
FR-2	Filters	Filter by time, region, consumer type Reset filters
FR-3	Forecasting	Show future electricity consumption trend Adjust forecast range
FR-4	Storytelling	Navigate through usage during COVID phases Provide scene-wise insights
FR-5	Web Embedding	Embed dashboard in Flask-based web UI Ensure responsive display
FR-6	Data Storage	Store dataset in SQL DB Retrieve data into Tableau

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Interface should be clean, beginner-friendly, and intuitive
NFR-2	<b>Security</b>	Dashboard should prevent unauthorized modifications
NFR-3	<b>Reliability</b>	Visualizations must consistently reflect accurate data
NFR-4	<b>Performance</b>	Dashboard should load within 5 seconds using Tableau Public
NFR-5	<b>Availability</b>	Dashboard should be accessible 24/7 on the web
NFR-6	<b>Scalability</b>	The system should handle increasing data (more states or months) without breaking