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

Date	09 February 2026
Team ID	LTVIP2026TMIDS80901
Project Name	Plugging in to the future : An exploration of electricity consumption patterns
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	Data Import	Import electricity dataset (CSV) into Tableau
FR-2	Data Processing	Clean missing or inconsistent data Aggregate data by month/year/region
FR-3	Trend Analysis	Generate monthly consumption trend chart
FR-4	Comparative Analysis	Region-wise comparison visualization Category-wise consumption analysis
FR-5	Interactive Dashboards	Add filters (Year / Region / Category) Dynamic chart updates
FR-6	Insight Identification	Highlight peak consumption periods Identify minimum consumption periods
FR-7	Reporting	Provide story view for structured presentation Export dashboard for documentation

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Dashboard should be simple, clear, and easy to navigate.
NFR-2	**Security**	Charts should load and update quickly when filters are applied.
NFR-3	**Reliability**	Dashboard should display accurate data without errors.
NFR-4	**Performance**	Dashboard should be accessible whenever required during analysis.
NFR-5	**Availability**	System should handle large datasets if future dat
NFR-6	**Scalability**	