

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

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| Date | 6 February 2026 |
| Team ID | LTVIP2026TMIDS47777 |
| 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 | Data Collection | Upload public electricity datasets Import Excel/CSV files |
| FR-2 | Data Preprocessing | Clean and handle missing data Format for Tableau use |
| FR-3 | Visualization Design | Design dashboard layout Create charts for sectors/regions Enable filtering options |
| FR-4 | Insight Generation | Generate summaries Highlight usage trends |
| FR-5 | Publishing | Export dashboard to Tableau Public Enable sharing via link |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | The Tableau dashboard should be intuitive and user-friendly for technical and non-technical users. |
| NFR-2 | Security | Published dashboards should be accessible via secured links and hosted on secure platforms. |
| NFR-3 | Reliability | The dashboard should consistently display updated and accurate data from source files. |

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| NFR-4 | Performance | Visualizations should load efficiently without noticeable delays. |
| NFR-5 | Availability | The dashboard should be available online 24/7 through Tableau Public or embedded links. |
| NFR-6 | Scalability | The solution should support larger datasets and expansion to include more regions/sectors. |