

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

Date	19 <sup>th</sup> March 2025
Team ID	PNT2025TMID06806
Project Name	Global Energy Trends: A Comprehensive Analysis of Key Regions and Generation Modes using Power BI
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	Integration with global energy databases
FR-2	Data Analysis	AI-based trend prediction
FR-3	Visualization	Interactive dashboards for energy consumption
FR-4	Reporting & Insights	Automated report generation

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Intuitive UI for easy navigation and data interpretation
NFR-2	<b>Security</b>	Secure access to sensitive energy data
NFR-3	<b>Reliability</b>	High accuracy in energy trend predictions
NFR-4	<b>Performance</b>	Fast data processing and visualization
NFR-5	<b>Availability</b>	24/7 uptime with minimal downtime
NFR-6	<b>Scalability</b>	Ability to handle increasing data sources and users