Project Design Phase
Proposed Solution Template

Date	16 April 2025
Team ID	PNT2025TMID07432
Project Name	Global-Energy-Trends-A-Comprehensive-Analysis-of-Key-Regions-and-Generation-Modes-using-Power-BI
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1	Problem Statement (Problem to be solved)	Global energy data is often scattered, inconsistent, and difficult to compare across regions and generation modes. A centralized, visual analytics solution is needed to provide meaningful insights into energy trends.
2	Idea / Solution description	This project leverages Power BI to analyze global energy production data across regions and generation sources (renewable and non-renewable). The system presents insights through dynamic dashboards for trend comparison, forecasting, and policy planning.
3	Novelty / Uniqueness	- Combines data from multiple global sources into a unified, interactive platform. - Uses Power BI for real-time visual analytics and regional benchmarking. - Enables predictive insights using DAX and AI-powered features in Power BI.
4	Social Impact / Customer Satisfaction	- Assists policymakers, researchers, and energy stakeholders in understanding and optimizing energy use. - Promotes renewable energy adoption through transparent data trends. - Encourages data-driven decisions in energy planning and sustainability.
5	Business Model (Revenue Model)	- Subscription-based access for energy analysts and institutions. - Enterprise licensing for government and global energy organizations. - Custom solutions and dashboard development for consultancy services.

6	Scalability of the Solution	- Scalable to include more countries, years, and detailed energy sub-sectors. - Cloud-based deployment allows easy expansion and multi-user access. - Can integrate with AI models for automated energy trend forecasting and scenario planning.