

Project Design Phase-II

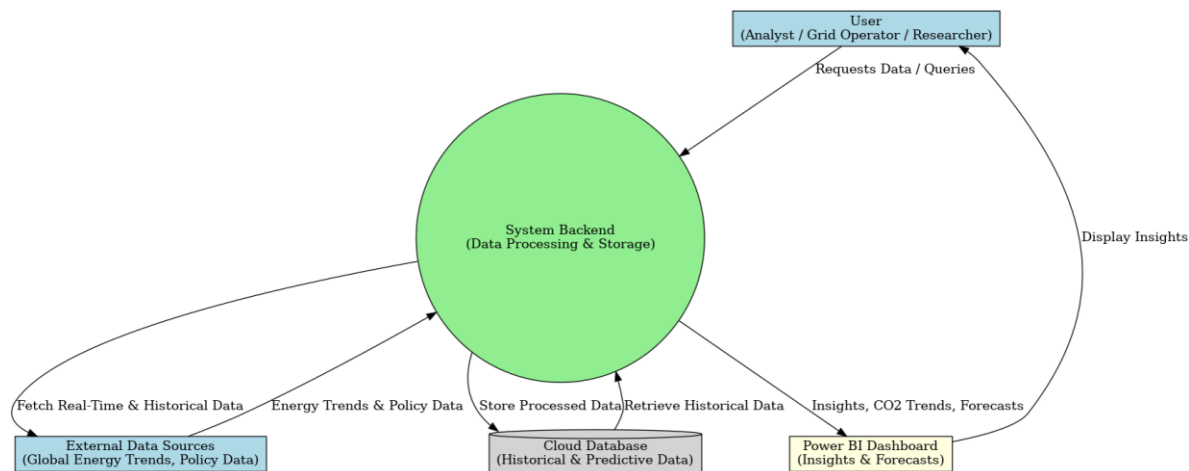
Data Flow Diagram & User Stories

Date	31 January 2025
Team ID	PNT2025TMID00584
Project Name	Global Energy Trends: A Comprehensive Analysis of Key Regions and Generation Models using Power BI
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

DFD Level 0 (Industry Standard)



User Stories

Use the below template to list all the user stories for the product.

Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Registration	USN-1	As a user, I can register for the dashboard via email and password.	I can access my dashboard after logging in.	High	Sprint-1
	USN-2	As a user, I will receive a confirmation email after registration.	I can confirm my account via email.	High	Sprint-1
Data Visualization	USN-3	As an analyst, I can view energy consumption trends for different regions.	I can filter data by country and year	High	Sprint-2
	USN-4	As an analyst, I can analyze CO2 emissions trends and policy impacts.	I can see CO2 levels change over time.	High	Sprint-2
Forecasting & Predictions	USN-5	As a grid operator, I can forecast future energy demand based on historical data.	The system generates an accurate prediction.	High	Sprint-3
	USN-6	As an analyst, I can compare different energy generation modes.	I can see performance of solar, wind, and fossil fuels.	Medium	Sprint-3
Reporting and Export	USN-7	As a researcher, I can download reports and charts for analysis	I can export data in CSV/PDF formats.	Medium	Sprint-4