Initial Project Planning Template

Date	1 October 2025
Team ID	SWUID20250206509
Project Name	Global Energy Trends: A Comprehensive Analysis of Key Regions and Generation Modes using Power BI
Maximum Marks	4 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create a product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)	
Sprint-1	Data Collection & Preparation	USN-1	As a data analyst, I can collect and consolidate global energy data from multiple sources (IEA, EIA, regional energy authorities)	3	High	Harshachandra V	1 Oct 2025	1 Oct 2025	
Sprint-1		USN-2	As a data analyst, I can clean and transform the raw energy data to ensure consistency across different regions and timeframes	3	High	Harshachandra V	1 Oct 2025	1 Oct 2025	
Sprint-1		USN-3	As a data analyst, I can create a data model in Power BI that establishes relationships between regions, generation modes, and time periods	2	High	Harshachandra V	1 Oct 2025	1 Oct 2025	

Sprint-2	Dashboard Development	USN-4	As a user, I can view an interactive world map showing energy generation by region with drill-down capabilities	3	High	Harshachandra V	2 Oct 2025	3 Oct 2025
Sprint-2		USN-5	As a user, I can view time-series charts comparing different energy generation modes (fossil fuels, renewables, nuclear) over the past decades	2	High	Harshachandra V	2 Oct 2025	3 Oct 2025
Sprint-2		USN-6	As a user, I can filter and compare energy trends across specific regions or countries using interactive slicers	2	High	Harshachandra V	2 Oct 2025	3 Oct 2025
Sprint-2		USN-7	As a user, I can view KPI cards displaying key metrics such as total global energy generation, renewable energy percentage, and year-over-year growth rates	2	Medium	Harshachandra V	2 Oct 2025	3 Oct 2025
Sprint-3	Advanced Analytics	USN-8	As a user, I can view trend analysis charts showing the transition from fossil fuels to renewable energy sources by region	2	Medium	Harshachandra V	4 Oct 2025	5 Oct 2025
Sprint-3		USN-9	As a user, I can access predictive forecasts for future energy generation trends based on historical data	3	Low	Harshachandra V	4 Oct 2025	5 Oct 2025
Sprint-3		USN-10	As a user, I can compare energy generation efficiency and carbon intensity metrics across different regions	2	Medium	Harshachandra V	4 Oct 2025	5 Oct 2025
Sprint-4	Testing & Documentation	USN-11	As a quality assurance tester, I can verify that all dashboard visualizations display accurate data and respond correctly to user interactions	2	High	Harshachandra V	6 Oct 2025	7 Oct 2025
Sprint-4		USN-12	As a project team member, I can create comprehensive documentation including user guides and technical specifications	2	High	Harshachandra V	6 Oct 2025	7 Oct 2025

Sprint-4		USN-13	As a user, I can access tooltips and help features that explain how to interpret the visualizations and metrics	1	Medium	Harshachandra V	6 Oct 2025	7 Oct 2025	