Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	16 April 2025
Team ID	PNT2025TMID07432
Project Name	Global-Energy-Trends-A-Comprehensive-Analysis-of-Key-Regions-and-GeneraKon-Modes-using-Power-BI
Maximum Marks	5 Marks

Product Backlog, Sprint Schedule, and Estimation

Project Planning Phase

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection & Integration	-USN 1	Gather regional and generation mode-based energy data from public sources and APIs	7	High	**Milad, Lokesh**
Sprint-1	Data Preparation	-USN 2	Clean and transform data for consistency, handle missing and categorical values	8	High	**Lokesh, Pradeep**
Sprint-2	Data Analysis	-USN 3	Use Power BI to analyze data trends across regions and generation modes	5	Medium	**Pradeep**

Sprint-2	Visualization Development	-USN 4	Build visualizations for KPIs like generation share, emissions, trends	6	Medium	**Milad, Lokesh**
Sprint-2	Dashboard Design	-USN 5	Design a user-friendly dashboard with filterable visuals by region, year, energy source	8	High	**Milad, Lokesh**
Sprint-3	Implementation	-USN 6	Deploy Power BI dashboard to web, assign roles and access permissions	7	Medium	**Pradeep, Lokesh**
Sprint-3	Feedback Collection	-USN 7	Collect feedback from users on dashboard usability and insights	6	Medium	**Milad, Pradeep**
Sprint-3	Evaluation and Continuous Improvement	-USN 8	Analyze user interaction and improve visuals or filters based on feedback	9	High	**Milad, Lokesh, Pradeep**

Project Tracker, Velocity & Burndown Chart (4 Marks)

Sprint Tracker

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	15	10 Days	22 Apr 2025	01 May 2025	15	01 May 2025
Sprint-2	19	10 Days	02 May 2025	11 May 2025	19	11 May 2025
Sprint-3	22	10 Days	12 May 2025	21 May 2025	22	21 May 2025

Velocity Calculation

- **Total Story Points Completed**: 15 + 19 + 22 = **56**
- **Total Number of Sprints**: 3
- **Velocity** = **56/3 = 18.66 story points per sprint**

Burndown Chart

Burndown Table

Sprint	Day	Total Story Points	Story Points Completed	Remaining Story Points
1	1	56	0	56
	2	56	0	56
	3	56	0	56
	4	56	0	56
	5	56	0	56
	6	56	0	56
	7	56	0	56
	8	56	0	56
	9	56	0	56
	10	56	15	41

2	1	56	15	41
	2	56	15	41
	3	56	15	41
	4	56	15	41
	5	56	15	41
	6	56	15	41
	7	56	15	41
	8	56	15	41
	9	56	15	41
	10	56	34	22
3	1	56	34	22
	2	56	34	22
	3	56	34	22
	4	56	34	22
	5	56	34	22
	6	56	34	22
	7	56	34	22
	8	56	34	22
	9	56	34	22
	10	56	56	0