

Project Design Phase-II

Data Flow Diagram & User Stories

Date	14 june 2025
Team ID	LTVIP2025TMID47623
Project Name	Exploration of Electricity Consumption Patterns
Maximum Marks	4 Marks

Data Flow Diagram – Electricity Consumption Project

1. [Raw CSV Dataset: Consumption.csv]



2. [Data Preprocessing in Tableau / MySQL]

- Format date fields
- Rename columns (e.g., Usage, State, Region)
- Create calculated fields (e.g., Year-over-Year %, Lockdown Flag)



3. [In-Memory Tableau Storage]



4. [Visualization Layer (Tableau Sheets)]

- Bar Chart: State-wise Electricity Consumption
- Line Chart: Monthly Trends
- Filled Map: Regional Usage
- Area Chart: Lockdown Impact
- Highlight Table: Quarterly Usage



5. [Dashboard View + Filters]

- Year
- Region
- State
- Lockdown Period



6. [Business Users / Policy Makers / Analysts]

- Explore insights
- Share decisions
- Export reports

□ User Stories – Electricity Consumption Dashboard

User Type	Functional Requirement (Epic)	User Story / Task	Story ID	Acceptance Criteria	Priority	Release
Energy Analyst	Analyze Year-wise Consumption	As an analyst, I want to compare electricity usage by state for 2019 and 2020	USN-1	I can view and filter electricity data by state and year using bar charts	High	Sprint-1
Government Planner	Evaluate Lockdown Impact	As a planner, I want to evaluate changes in consumption before and after lockdown	USN-2	I can view area charts or line graphs showing lockdown impact	High	Sprint-1
Policy Strategist	Understand Regional Patterns	As a policymaker, I want to identify high-consumption regions visually	USN-3	I can use filled maps and highlight tables to compare regional usage	Medium	Sprint-2
Data Analyst	Filter Dashboard for Custom Analysis	As an analyst, I want to apply filters (year, region, lockdown) to customize views	USN-4	I can interactively filter visuals and get updated graphs	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story / Task	Story ID	Acceptance Criteria	Priority	Release
Department Head	Storytelling View	As a decision-maker, I want a visual walkthrough of insights for presentations	USN-5	I can use a Tableau Story to navigate step-by-step visual insights	Medium	Sprint-2
Reporting Manager	Export Reports	As a reporting lead, I want to export dashboard visuals for documentation	USN-6	I can export dashboards or selected charts to PDF/image formats	Low	Sprint-3