

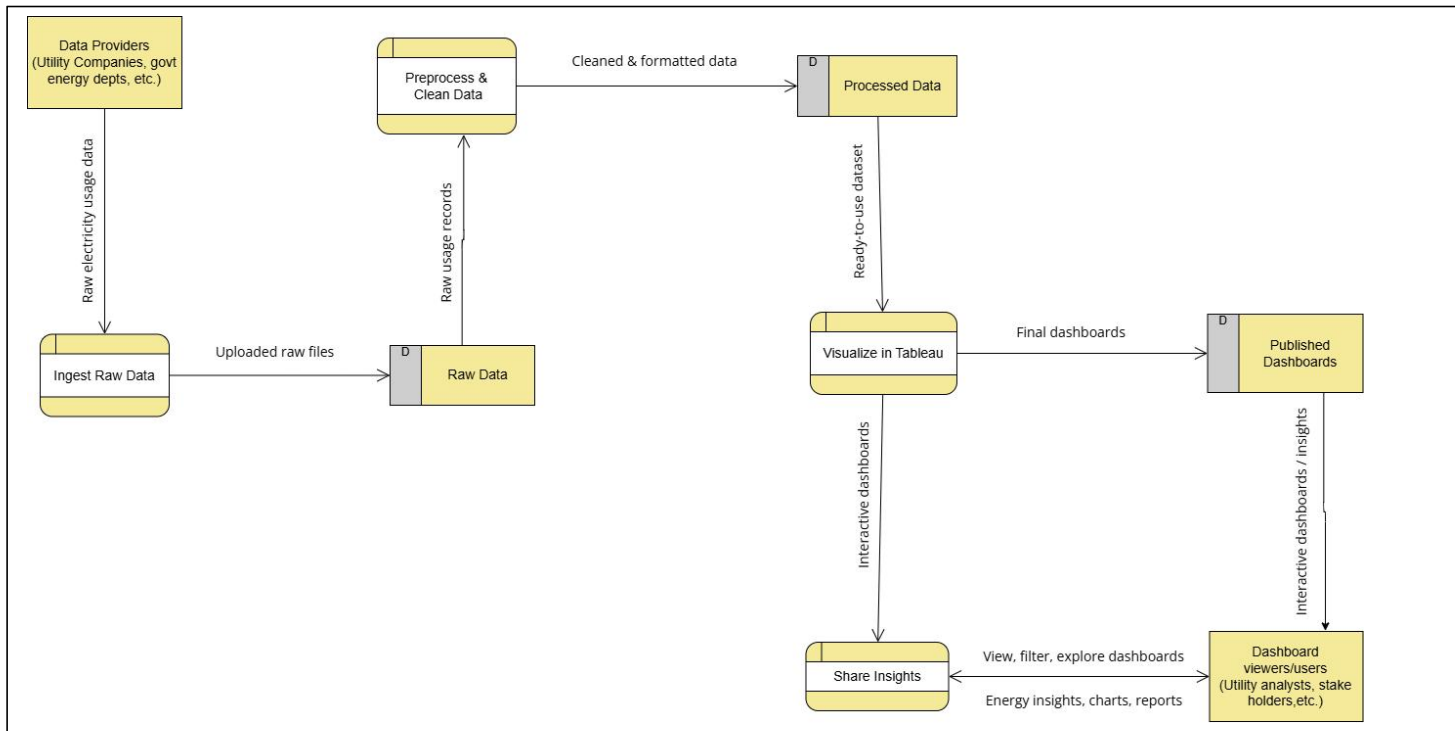
Project Design Phase-II

Data Flow Diagram & User Stories

Date	16 June 2025
Team ID	LTVIP2025TMID51709
Project Name	Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau.
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.



User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Utility analyst	Time-of-Day Usage Analysis	USN-1	As a utility analyst, I want to view hourly electricity usage by region	Dashboard shows clear hourly usage trends with filters by region and date	High	Sprint-1
Utility Analyst	Sector-Wise Consumption Breakdown	USN-2	As a utility analyst, I want to compare electricity usage across sectors	Dashboard displays usage for residential, commercial, and industrial sectors	High	Sprint-1
Policy Maker	Seasonal Trend Visualization	USN-3	As a policymaker, I want to see seasonal electricity consumption patterns	Dashboard includes trend lines with month/season filters and forecasting enabled	Medium	Sprint-1
Energy Analyst	Data Import and Cleaning	USN-4	As an energy analyst, I want to upload raw data and pre-process it for Tableau	System accepts Excel/CSV input and prepares clean, structured output for dashboard use	High	Sprint-1
Utility Analyst	Interactive Filters	USN-5	As a utility analyst, I want to filter data by time, region, and sector	Filters dynamically adjust visuals without errors	High	Sprint-1
Policy Maker	Exporting Reports	USN-6	As a policymaker, I want to export dashboards as PDFs for meetings	Users can export dashboards to PDF/Image with proper formatting	Medium	Sprint-1
Utility Analyst	Real-Time Data Integration	USN-7	As a utility analyst, I want live data updates from API's for real-time monitoring	Dashboard refreshes data automatically every X minutes or via refresh button	Low	Sprint-2
Business Stakeholder	Executive Summary Dashboard	USN-8	As a stakeholder, I want a high-level view of usage and key metrics	Summary includes KPIs like peak demand, avg usage, sector share	Medium	Sprint-1