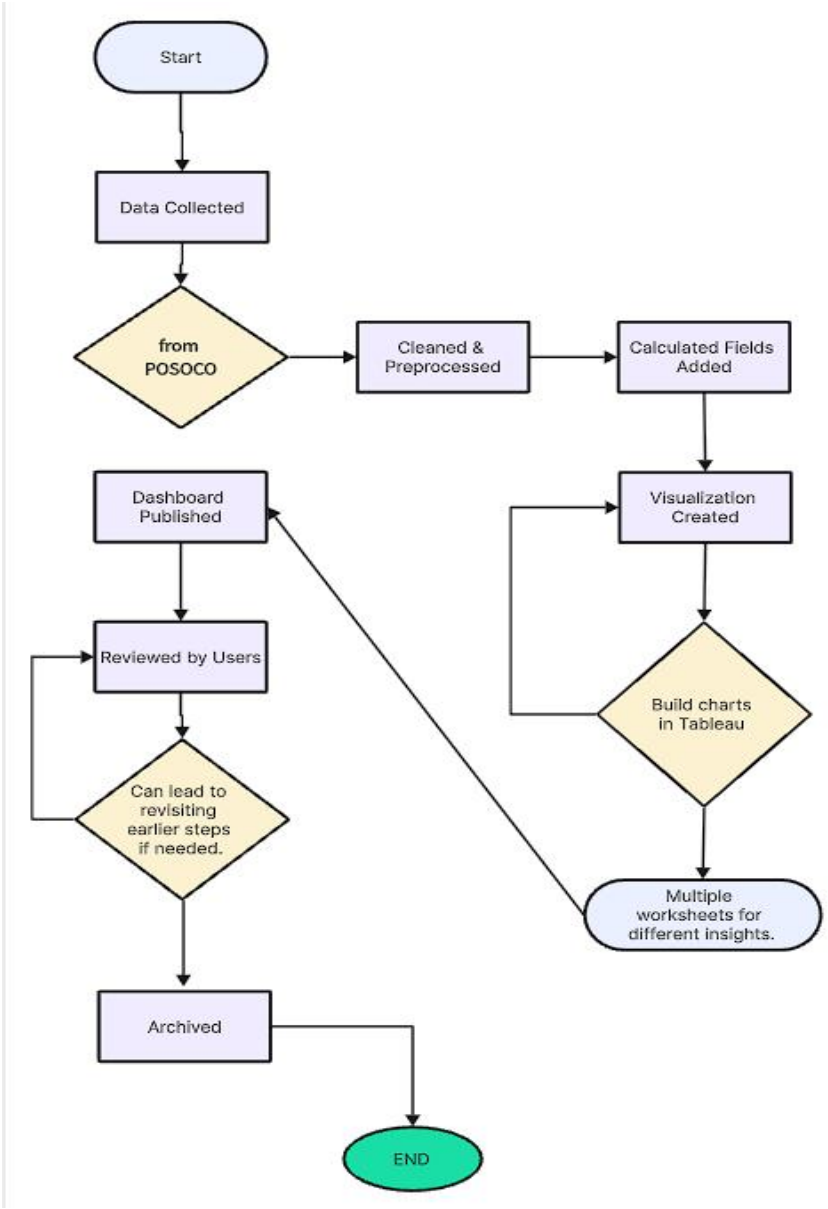
Project Design Phase-II
Data Flow Diagram & User Stories

Date	16/06/25
Team ID	LTVIP2025TMID59112
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.

1. **Data collected** from POSOCO in CSV format.
2. **Cleaned and transformed**, with calculated fields like Year and Lockdown.
3. **Visualizations built** in Tableau using multiple worksheets.
4. **Users review** the dashboard and may request changes.
5. **Final version archived** after approval.


Start
Data Collected
from POSOCO
Cleaned & Preprocessed
Calculated Fields Added
Visualization Created
Build charts in Tableau
Multiple worksheets for different insights.
Dashboard Published
Reviewed by Users
Can lead to revisiting earlier steps if needed.
Archived
END

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Analyst / Policymaker	View Electricity Trends	USN-1	As a user, I want to view electricity usage trends by region and year so I can identify peak consumption periods.	I can filter and view charts for specific regions and years.	High	Sprint-1
Analyst	Compare States	USN-2	As a user, I want to compare top and bottom electricity-consuming states.	I can view bar charts with top N and bottom N states.	Medium	Sprint-1
Policy Maker	Forecast Planning	USN-3	As a user, I want to analyze seasonal variations in usage to help plan future supply.	I can view monthly and quarterly consumption trends.	High	Sprint-2
Energy Consultant	View Impact of Lockdown	USN-4	As a user, I want to compare electricity usage before and after lockdown.	A before-after lockdown chart is available for selection.	High	Sprint-2
Developer	Connect Data	USN-5	As a user, I want the dashboard to be connected to a live database.	Data refreshes automatically from MySQL to Tableau.	Medium	Sprint-2
Developer	Export Insights	USN-6	As a user, I want to export dashboard views for presentations.	I can download dashboards as images or PDFs.	Low	Sprint-3