

# **Business and Functional Requirements Specification**

## **Business Requirements**

- BR1: The system must analyze electricity consumption trends across Indian states.
- BR2: The system must compare 2019 and 2020 consumption.
- BR3: The system must identify high and low consumption states.
- BR4: The system must show region-wise distribution.
- BR5: The system must analyze seasonal variation.
- BR6: The system must show lockdown impact.
- BR7: The dashboard must be interactive and filter-based.

## **Functional Requirements**

- FR1: Import CSV data into SQL database.
- FR2: Perform aggregation queries using GROUP BY.
- FR3: Connect database with Tableau.
- FR4: Create minimum 8 unique visualizations:

- Line Chart (Time Series)
- Bar Chart (Region)
- Map Visualization
- Pie Chart
- Heatmap
- Top N Analysis
- Year Comparison
- Lockdown Comparison

- FR5: Dashboard must contain:

- Filters (Year, Region, State)
- Calculated Fields
- Interactive tooltips

- FR6: Story must contain minimum 5 scenes.

- FR7: Dashboard must be published online.

## **Non-Functional Requirements**

- Dashboard loading time < 5 seconds
- Accurate aggregation results

- Responsive design
- Data security during DB operations
- Clean UI layout