

Ideation Phase

Define the Problem Statements

Date	27 June 2025
Team ID	LTVIP2025TMID48457
Project Name	plugging into the future: an exploration of electricity consumption patterns using tableau
Maximum Marks	4 Marks

Customer Problem Statement:

I am a policymaker responsible for energy efficiency and grid management in India.

I'm trying to improve electricity supply and promote sustainable usage.

But current systems lack real-time insights and clear visualizations.

Because data is fragmented and hard to analyze effectively.

Which makes me feel frustrated and unable to make timely, informed decisions.

I am	Decision-Maker or Policymaker responsible for grid management, energy efficiency, and sustainable practices in the indian energy sector.
I'm trying to	Optimize electricity supply and reduce operational costs, ensure power reliability, and promote sustainable energy usage across various regions and sectors in India
but	Current methods lack granular insights into time-of-day usage, accurate forecasting for seasonal variations, and clear identification of high-consumption sectors. Existing data is often siloed or difficult to visualize interactively, hindering quick and informed decision-making.
because	There's a lack of a unified, interactive data visualization tool that can effectively analyze complex electricity consumption patterns from diverse data points (time, region, sector) and translate them into actionable Insights for grid management, policy formation, and demand-side strategies

Example:

Problem Statement (PS)

I am (Customer)

I'm trying to

But

Because

Which makes me feel

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Utility companies, policymakers, and consumers	Enable efficient energy usage, improve grid management, and promote sustainable practices [cite:5, 6]	We lack clear, interactive insights into electricity consumption patterns across Indian regions and sectors.	Current data analysis methods don't effectively reveal time-of-day usage, peak demand, seasonal variations, or sector-wise consumption trends ² .	Frustrated by inefficient resource allocation and the inability to form effective energy policies.
PS-2	Stakeholders in the energy sector	Optimize electricity supply and reduce costs by understanding consumption trends [cite:5, 6]	It's difficult to pinpoint which sectors and regions consume the most energy, and when.	The raw electricity usage data is complex and not easily digestible for quick decision-making.	Concerned about potential energy waste and missed opportunities for cost savings.

Empathy map:

