**Project Design Phase**

**Proposed Solution Template**

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| Date | 15 February 2025 |
| Team ID | LTVIP2025TMID48259 |
| Project Name | plugging into the future: an exploration of electricity consumption patterns using tableau |
| Maximum Marks | 2 Marks |

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Utility providers and policymakers lack clear, region-specific insights on consumption trends, seasonal demand, and socio-economic factors driving consumption, making resource planning inefficient. |
|  | Idea / Solution description | A Tableau dashboard that visualizes consumption data across Indian states and regions, tracking usage patterns over time, highlighting seasonal demand surges, and correlating them with socio-economic factors. |
|  | Novelty / Uniqueness | Combines regional consumption trends, demographic or seasonal overlays, and environmental considerations in a single interactive visualization platform tailored for India. |
|  | Social Impact / Customer Satisfaction | Supports better planning for electricity/utility infrastructure, ensures fair and efficient distribution, and improves customer satisfaction through data-driven demand management. |
|  | Business Model (Revenue Model) | Indirect revenue: Provides valuable analytics to utility companies, government agencies, and sustainability partners to optimize resources, reduce costs, and improve service quality. |
|  | Scalability of the Solution | The solution can be scaled to other countries, other utilities (like water, gas), or extended to even more granular household-level datasets by adapting the Tableau structure with localized consumption data. |