

**Project Development Phase**  
**Model Performance Test**

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| Date          | 18 February, 2026  |
| Team ID       | LTVIP2026TMIDS53972  |
| Project Name  | Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau |
| Maximum Marks |  |

**Model Performance Testing:**

| S.No. | Parameter               | Screenshot / Values   |
|-------|-------------------------|---|
| 1.    | Data Rendered           | The dataset contains electricity consumption records for multiple states and regions for 2019 and 2020. Key fields include:<br><ul style="list-style-type: none"> <li>• State</li> <li>• Region</li> <li>• Year</li> <li>• Month</li> <li>• Quarter</li> <li>• Usage</li> </ul> |
| 2.    | Data Preprocessing      | <ul style="list-style-type: none"> <li>- Verified and formatted date columns (Month, Quarter, Year)</li> <li>- Removed null/duplicate values</li> <li>- Renamed fields for clarity in Tableau</li> </ul>  |
| 3.    | Utilization of Filters  | <p>Global filters used:</p> <ul style="list-style-type: none"> <li>• Year (2019/2020)</li> <li>• Region</li> <li>• State</li> <li>• Quarter</li> </ul> <p>Filters applied across all dashboards for comparative analysis</p>  |
| 4.    | Calculation fields Used | <ul style="list-style-type: none"> <li>- Growth % = <math>(2020 - 2019) / 2019</math></li> <li>- Lockdown Impact Category (Pre/Post Lockdown)</li> </ul>  |
| 5.    | Dashboard design        | <p>Included:</p> <ul style="list-style-type: none"> <li>• State-wise Map</li> <li>• KPI Card (Total Consumption)</li> <li>• Line Chart – Year-wise Trend</li> <li>• Bar Chart – Top N &amp; Bottom N</li> <li>• Quarter Usage Chart</li> <li>• Region-wise Pie Chart</li> </ul> |

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| 6 | Story Design | <p>Story includes:</p> <ul style="list-style-type: none"><li>• State Comparison</li><li>• Regional Analysis</li><li>• Lockdown Impact</li><li>• Seasonal Trends</li><li>• Top N Insights</li></ul> |
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