**Case Study Report**

**ANALYSIS OF COMMERICAL ELECTRICITY CONSUMPTION IN INDIAN STATES**

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**ABSTRACT**

In the digital age, data has become an invaluable asset for businesses, particularly in the banking sector. The proposed project, “Real-Time Analysis of Bank Customers,” aims to leverage PowerBI, a leading business intelligence tool, to analyze and visualize real-time customer data. This project will enable banks to gain deep insights into customer behavior, preferences, and trends, thereby facilitating data-driven decision-making and enhancing customer satisfaction. The real-time analysis will allow banks to respond promptly to changes in customer behavior or preferences, identify opportunities for cross-selling and up-selling, and tailor their products and services to meet customer needs. The project will also contribute to the broader goal of digital transformation in the banking sector, promoting efficiency, innovation, and customer-centricity.

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**CHAPTER 1**

**INTRODUCTION**

**1.1 Problem Statement**

Commercial electricity consumption in Indian states is a critical aspect of understanding the economic activity and energy demand dynamics within the country. The analysis of commercial electricity consumption seeks to uncover trends, patterns, and factors influencing electricity usage in this sector across different states in India. Examine the historical trend of commercial electricity consumption in Indian states over a specified period. Identify regional disparities in commercial electricity consumption and explore the reasons behind them. Break down commercial electricity consumption into sub-sectors such as retail, hospitality, offices, etc., to understand consumption patterns. Analyze the impact of government policies, incentives, and regulations on commercial electricity consumption. Assess the level of energy efficiency in commercial establishments and identify opportunities for improvement.

**1.2. Proposed Solution**

Understanding the intricacies of commercial electricity consumption in Indian states is imperative for effective energy management, economic planning, and sustainable development. This analysis aims to delve into the patterns, trends, and factors influencing commercial electricity usage across various states in India, providing insights for policymakers, energy regulators, businesses, and other stakeholders. Investigate historical trends in commercial electricity consumption across Indian states over a specified period to identify growth patterns and variations. Analyze electricity consumption patterns within different commercial sectors (e.g., retail, hospitality, offices) to understand sector-specific demands.

**1.3. Feature**

To conduct a comprehensive analysis of commercial electricity consumption in Indian states, several features need to be considered. These features will help in understanding the dynamics of electricity usage, identifying trends, and uncovering factors influencing consumption patterns. Here are some essential features to include in the analysis. Categorize commercial establishments into sub-sectors such as retail, hospitality, offices, healthcare, education, etc., as each sector may have different electricity consumption patterns. Gather detailed data on commercial electricity consumption, preferably at a granular level (monthly or yearly), broken down by state and sector. Include economic indicators such as GDP, industrial output, employment rates, consumer spending, and inflation rates at the state level to assess their impact on commercial electricity consumption. By incorporating these features into the analysis, a holistic understanding of commercial electricity consumption in Indian states can be achieved, enabling informed decision-making and policy formulation to promote sustainable energy usage and economic development.