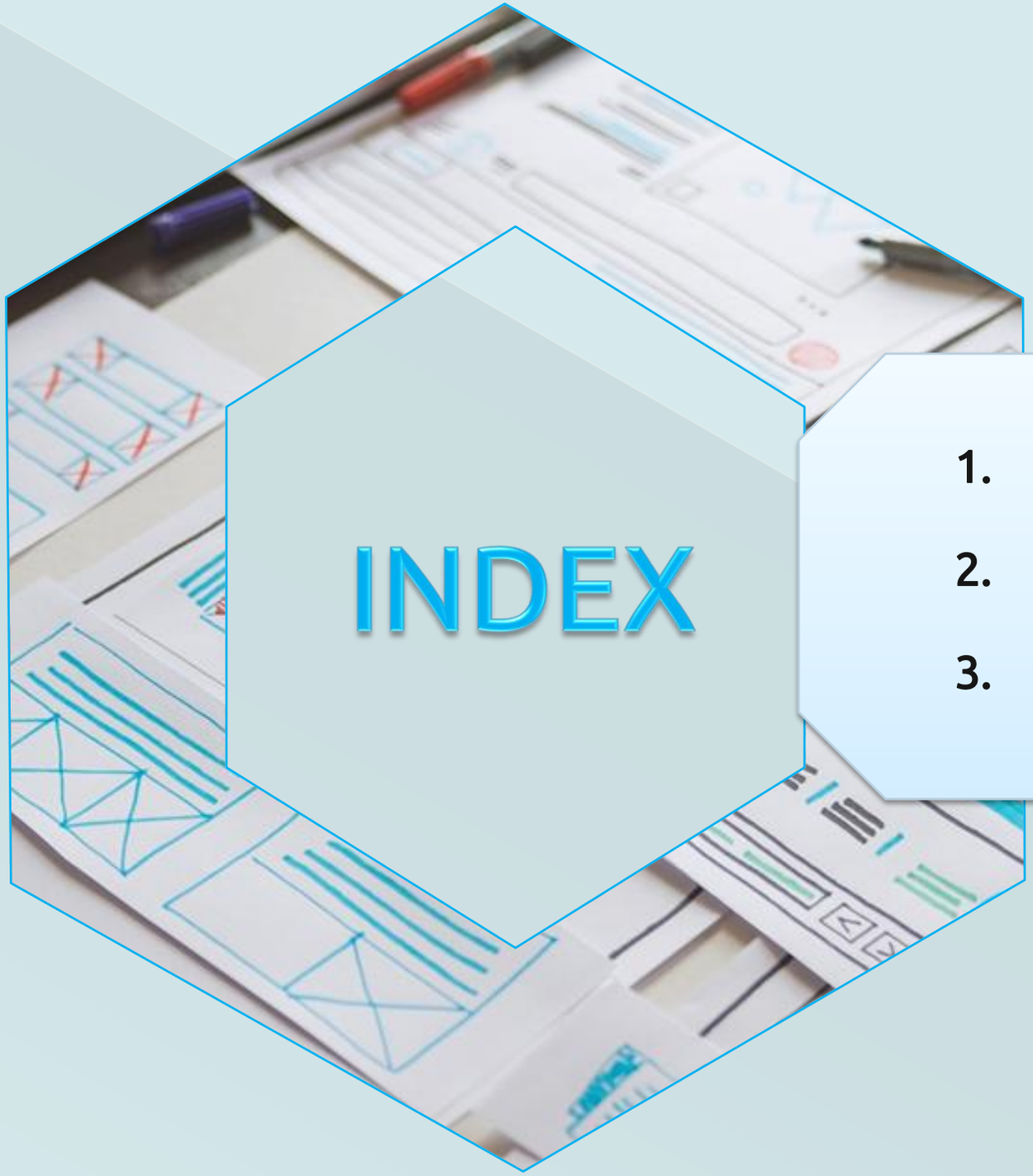
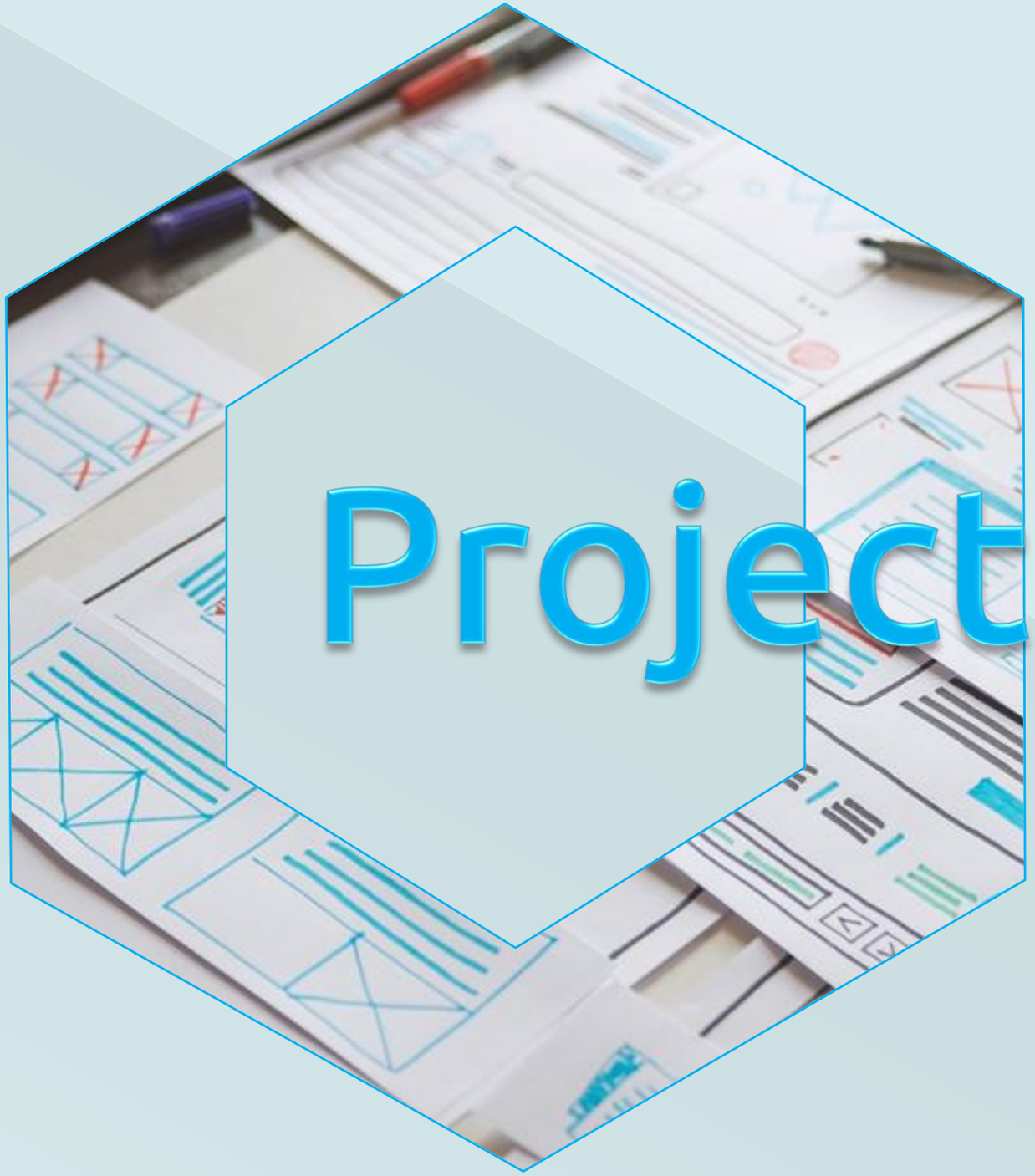
Project Name:

WASTE WATER MANAGEMENT



INDEX

1. Project Charter
2. KPIs
3. Conclusion



Project Charter

INTRODUCTION

The waste water management project aims to monitor and optimize the treatment and disposal of wastewater in USA. The project involves multiple wastewater treatment plants, sources of waste water across various locations. The main objective is to ensure efficient treatment of wastewater.

Project Details	
Manager	Mr. Andrew
Leader	Miss Jane
Members	Ken, Ron, Mathew
Overall Budget	$20000
Timeline	Jun 2023 – July 2023

Goals

- Ensure efficient and responsible treatment of wastewater to improve effectiveness and efficiency.
- Integrate data from different sources and performing analysis.
- Design Analytical Report.
- Provide Recommendations based on analytical report.

Objective and Scope

- **Data Collection and observation:** The project emphasis lies on collecting data related to treatment Plants, sources of waste water, and treatment results. These metrics are used for analyzing the overall performance of treatment facilities.

- **Performance Analysis:** The project aims to evaluate the performance of different treatment facilities. It seeks to identify areas of improvement, optimize treatment efficiency, and enhance the overall effectiveness of wastewater management systems.

- **Analysis of Waste Water Sources:** The project recognizes the importance of understanding the sources of wastewater and their specific characteristics. It aims to analyze wastewater based on different sources such as residential, healthcare, or industrial to identify any specific treatment requirements.

KPIs

Deliverables

1. **Data Consolidation and Transformation**: Consolidation of relevant data sources, such as wastewater treatment plant data, sources of waste water data into a structured format suitable for analysis.

2. **Key Performance Indicators (KPIs):** Identify key performance indicators related to wastewater management.

KPI	Analysis
Plant that is treating maximum & minimum volume of waste water	Bar Chart
% Contribution of waste water from different Sources	Pie Chart
Highly utilized Treatment Plant	Horizontal Bar Chart
Highly Efficient Treatment Plant	Horizontal Bar Chart
Day Wise Activity of Treatment Plant	Line Chart

1. **Analytical Report:** Creation analytical reports that provide insights into wastewater treatment performance. These visualizations are helpful in monitoring KPIs, identify trends, and to make data-driven decisions for process optimization.

2. **Recommendations:** Recommendations based on data analysis to optimize wastewater treatment processes, minimize resource consumption, and enhance overall efficiency.

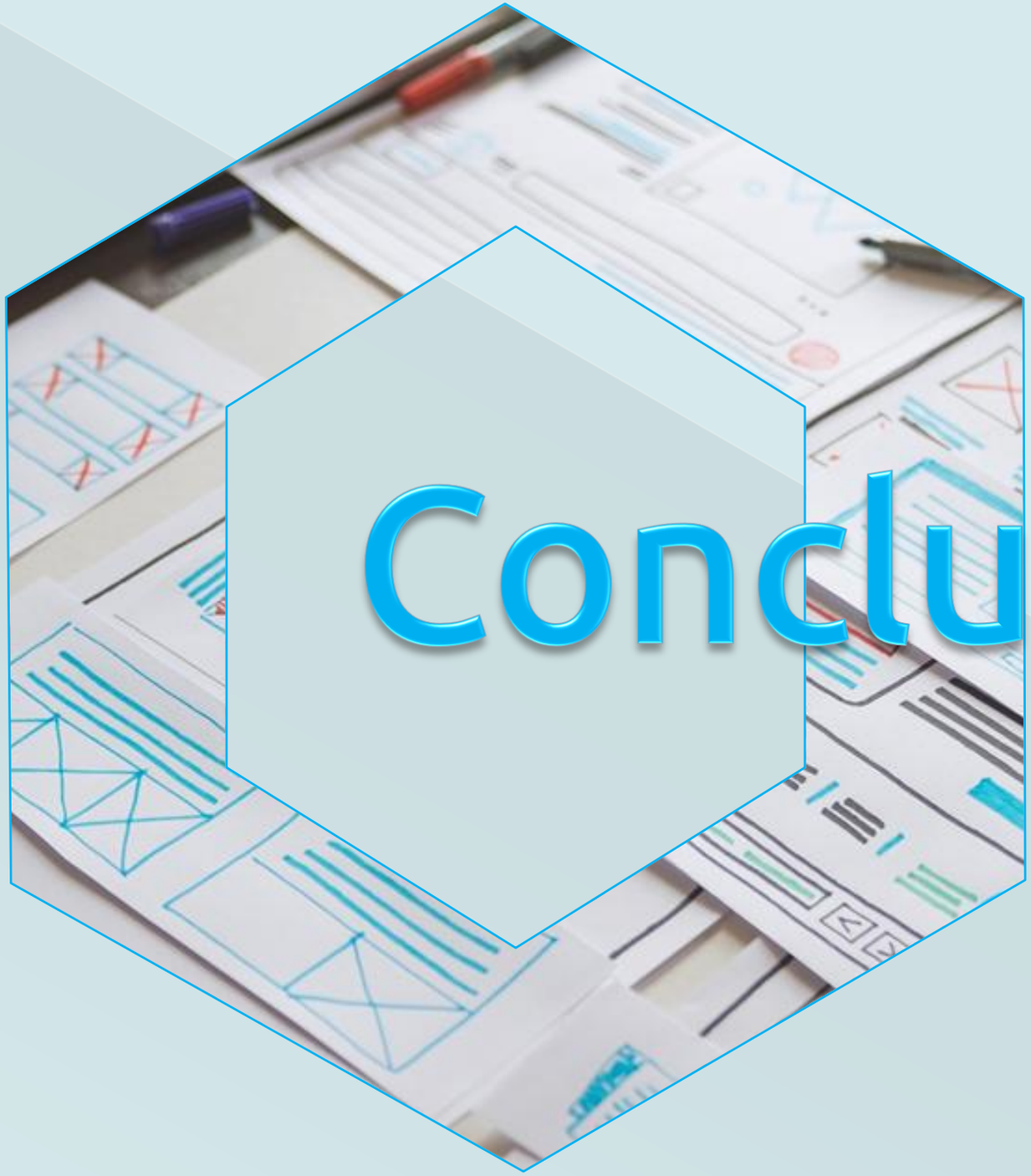
Risks

1. **Data Quality and Availability:** The risk of incomplete, inaccurate, or inconsistent data could impact the reliability and validity of the analytics outcomes. Inefficient data collection procedures or data integration challenges could hamper project chances of success.

2. **Protection of Data:** Dealing with confidential wastewater data requires rigorous data security measures. Inadequate data protection practices, unauthorized access, or data breaches could compromise the confidentiality and privacy of the data, leading to legal and reputational risks.

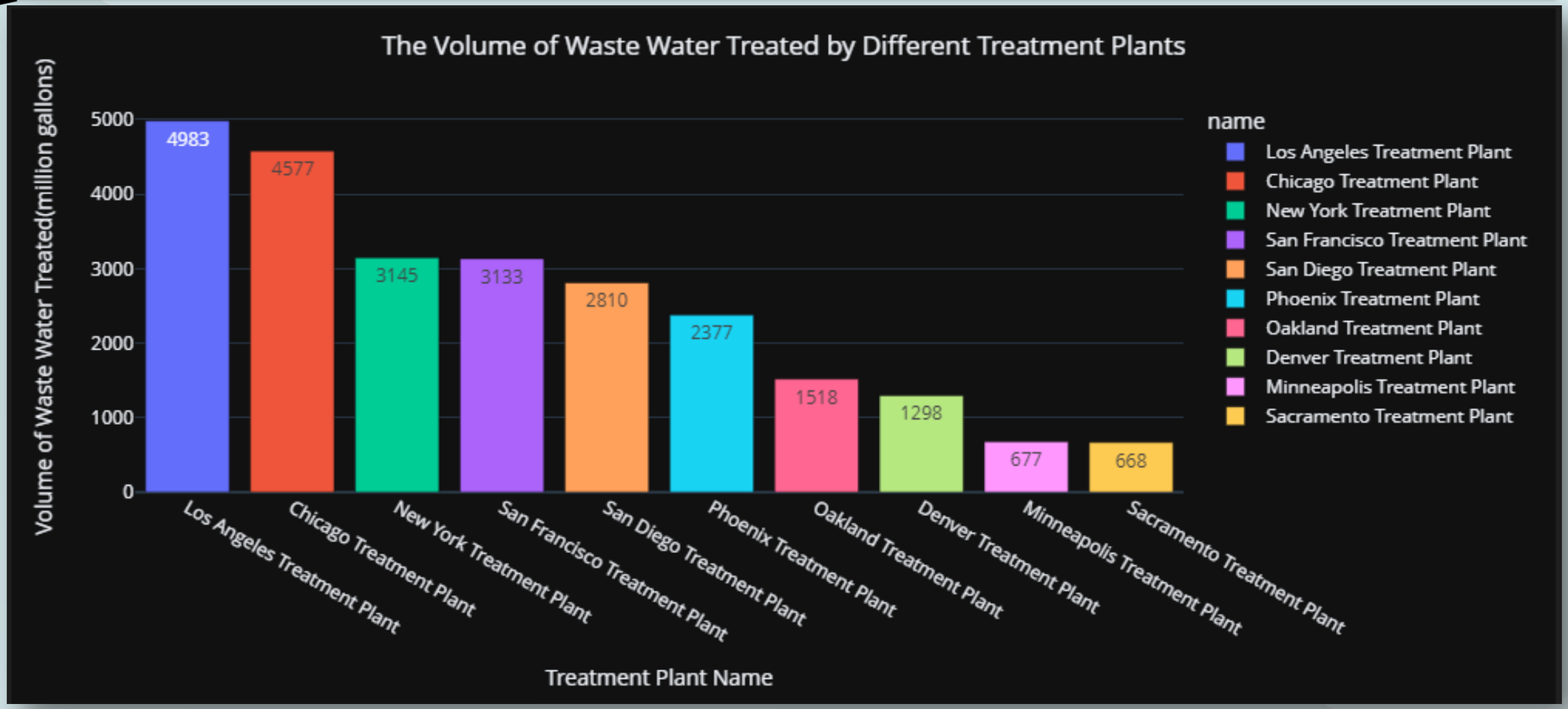
3. **Interpretation and Decision-making:** The interpretation of analytics results requires expertise and understanding of context. Misinterpretation of data, biases, or incorrect decision-making could lead to ineffective outcomes.

4. **Budget & Resource Constraints:** Insufficient resources, both financial and human, could impact the project's scope, timeline, and quality.



Conclusions

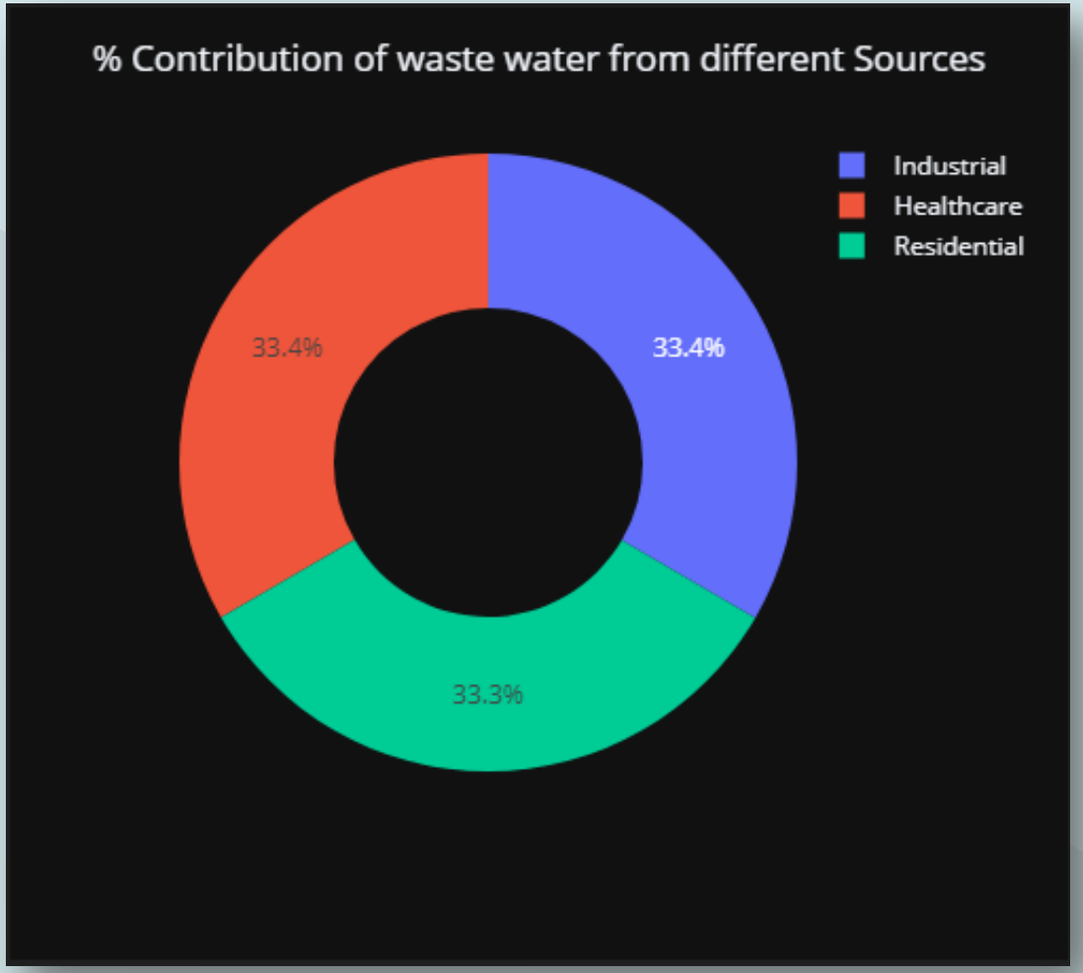
KPI: Plant that is treating maximum and minimum volume of waste water



Los Angeles Treatment Plant is treating highest volume of water

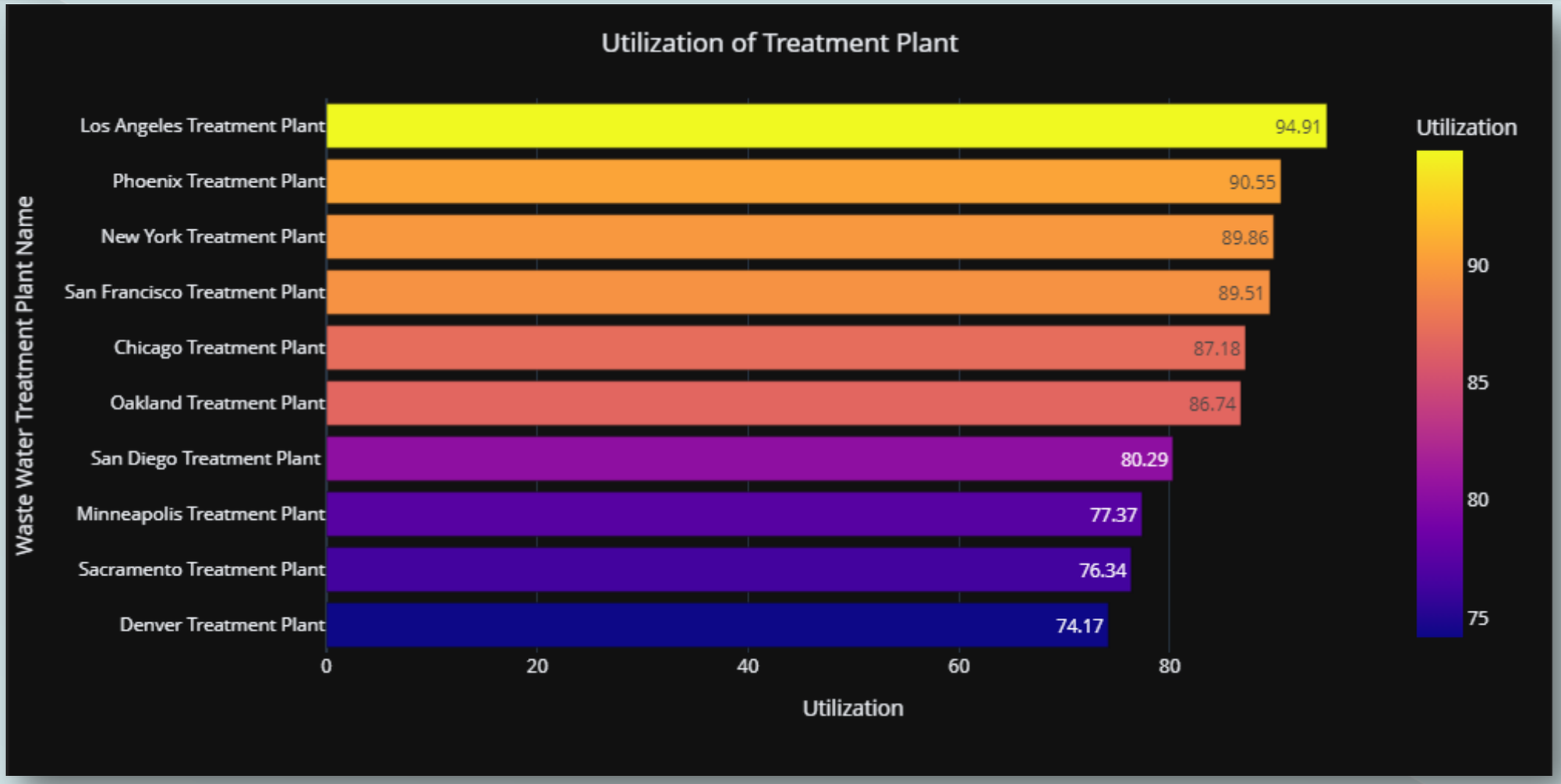
Sacramento Treatment Plant is treating lowest volume of water

KPI: % Contribution of waste water from different Sources



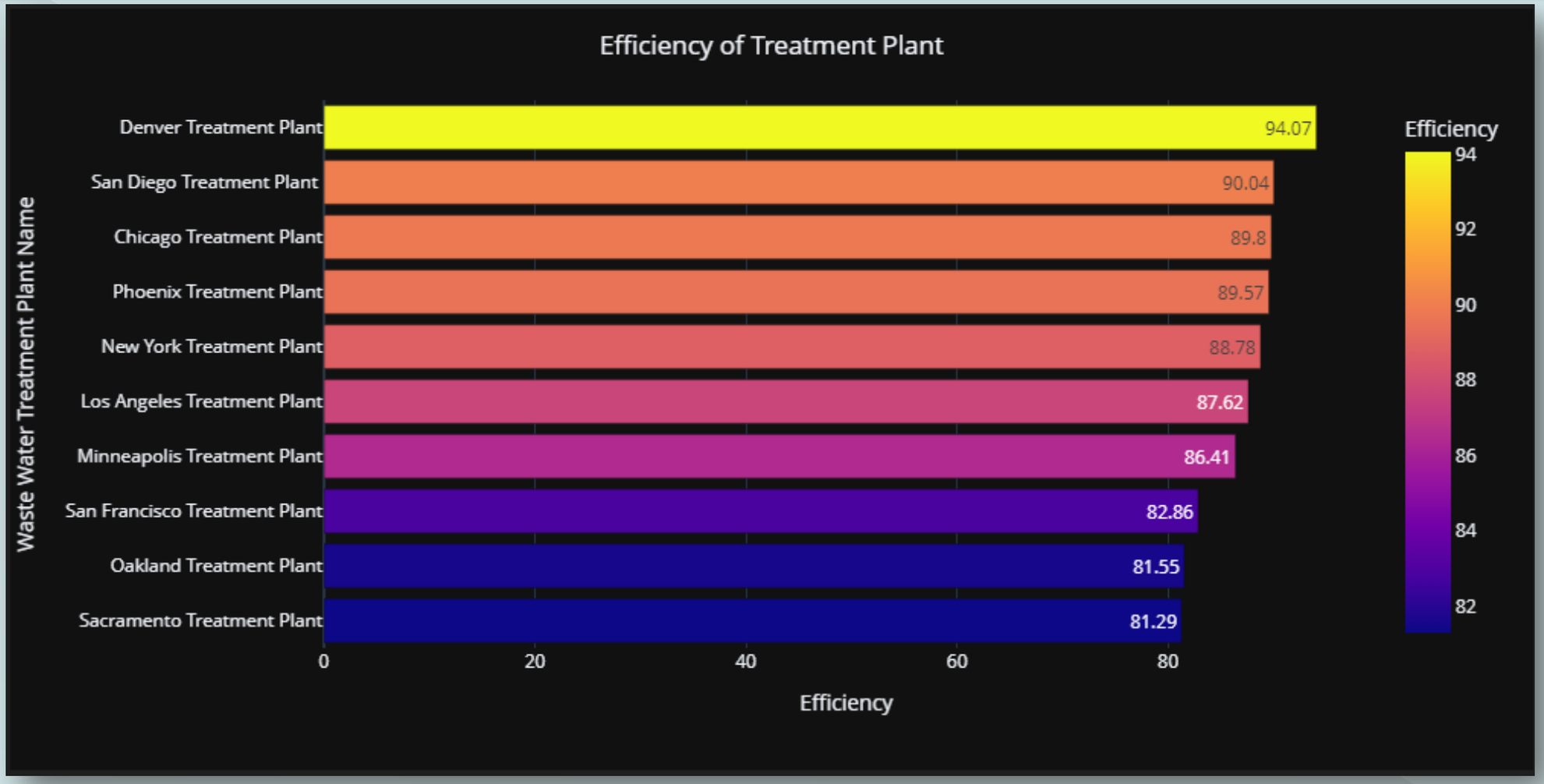
Healthcare and Industrial Sector is generating almost equal % of waste water

KPI: Highly utilized Treatment Plant



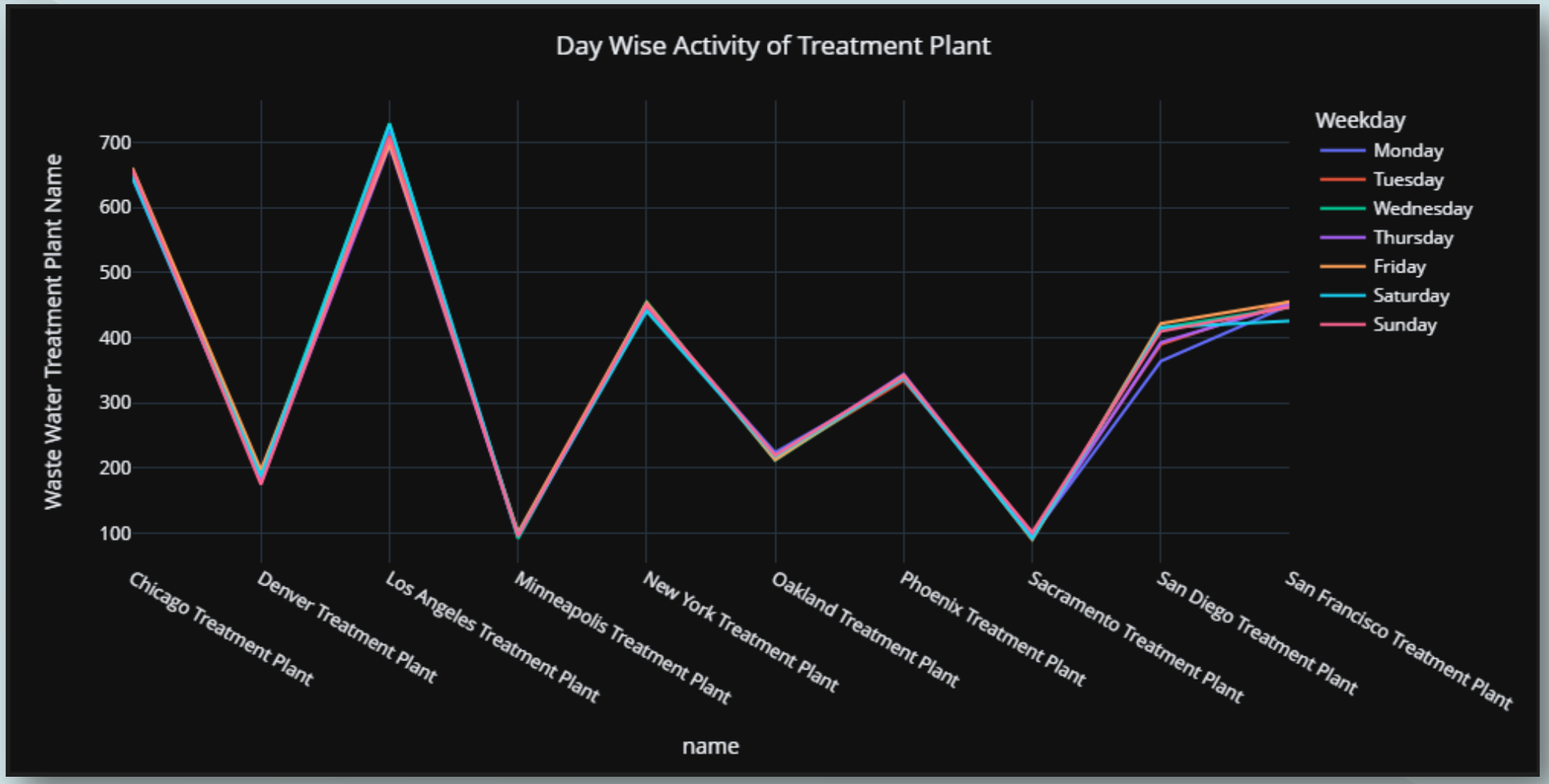
Los Angeles Treatment Plant is maximum utilized

KPI: Highly Efficient Treatment Plant



Denver Treatment Plant is highly efficient

KPI: Day Wise Activity of Treatment Plant



Almost same volume of waste water is treated everyday by different plants

For San Diego : Maximum volume of waste water is treated on Friday and Minimum volume is treated on Monday

Thank You!!