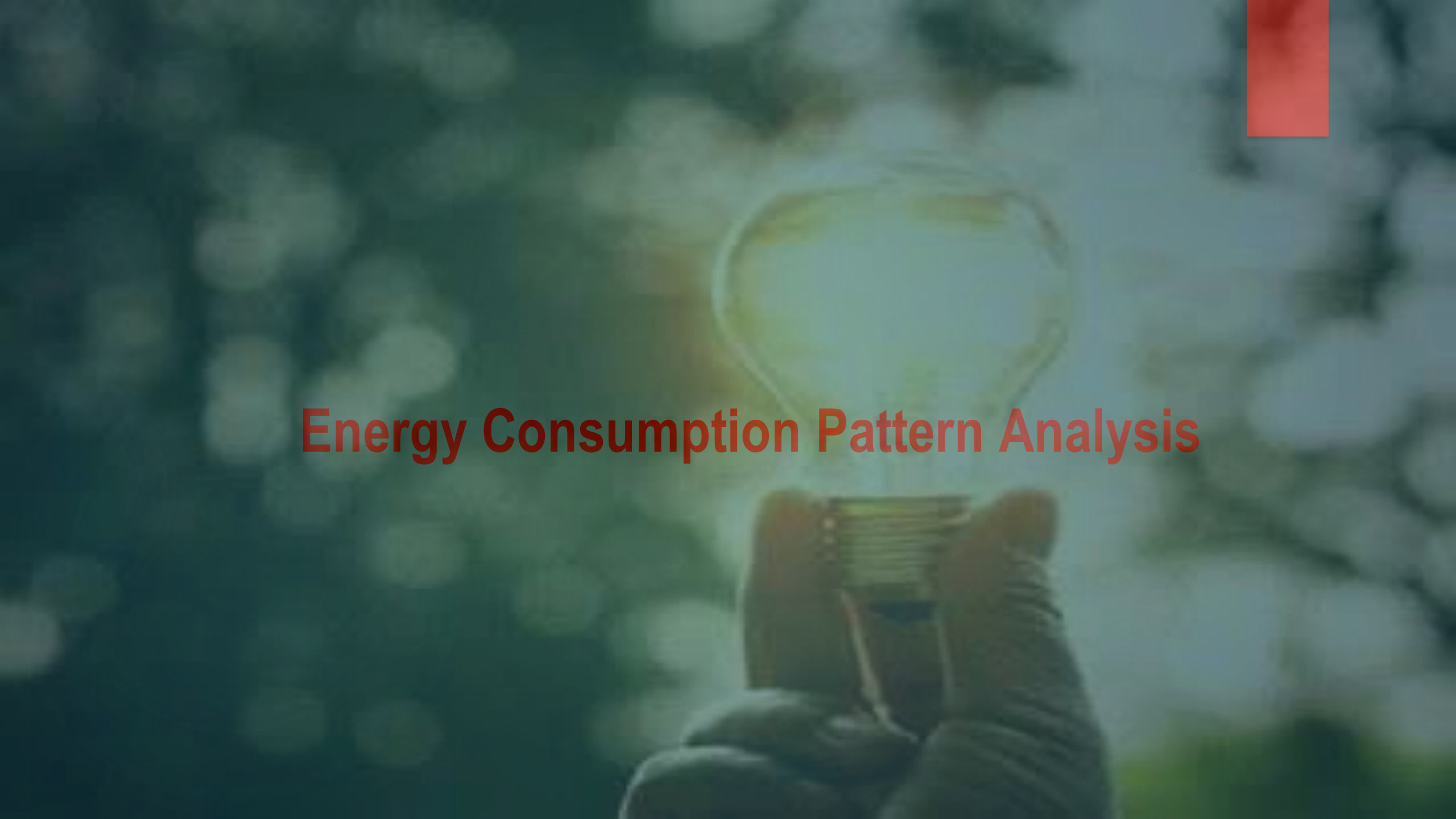


Energy Consumption Pattern Analysis

Energy: Analytics Of Distribution and Consumption Patterns

Objectives of this project:

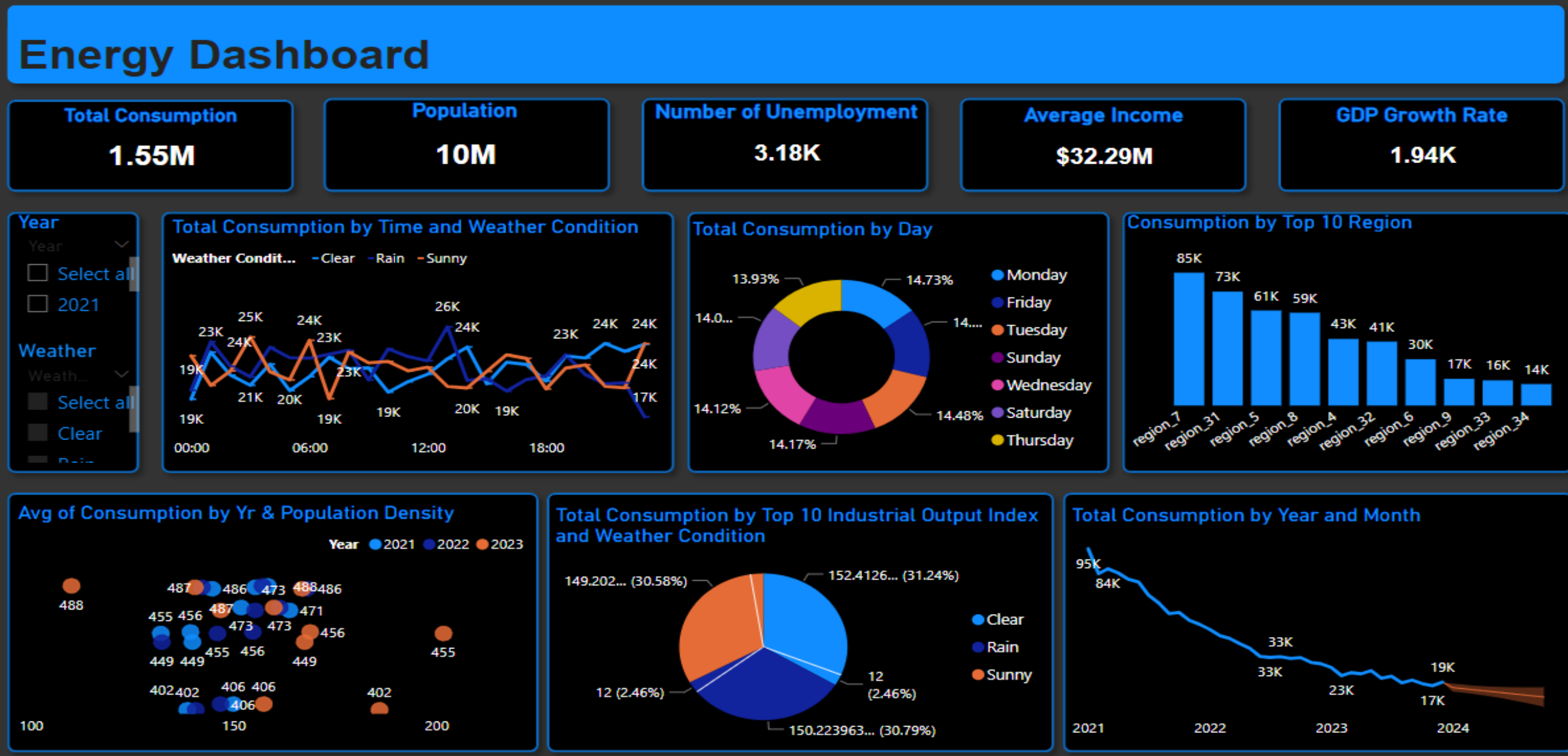
- To provide insight for energy companies to:
  - ✓ *Understand historical consumption patterns*
  - ✓ *Identify peak usage times*
  - ✓ *Optimize energy distribution and consumption patterns*

- To provide business intelligence analysis to Energy as a basis of its data-driven decisions for:
  - ✓ *Innovation and enhancement of its operations capabilities,*
  - ✓ *Seamless energy supply to meet the diverse needs of its consumers*

Project Focus Areas to answer Problem Statement:

- To provide insight for energy companies to:
  - ✓ *Analyze consumption patterns over time*
  - ✓ *Identify peak usage times and seasonal variations*
  - ✓ *Establish correlations between energy consumption and external factors such as weather, demographics, and economic factors*
  - ✓ *Build predictive models to forecast future consumption patterns*

Energy Consumption (Descriptive and Predictive) Dashboard



Business Intelligence Insights and Recommendations

- There was unexcepted high in the 2021, above the range of excepted of 58297, and the unexcepted high was 94966.41
- Low population dense region has less consumption
- Sum of consumption drop from 76067.12 to 336302 during is steepest decline between June 2021 and June 2022
- Recommending the supply of energy to the less dense populated region
- In 2023 which has a high dense area with less energy contribution, recommend more energy supply over this region for more income generation.
- Also recommend equal distribution of energy and efficiency for better income generation