



ENVIRONMENTAL IMPACT DASHBOARD

PRESENTED BY: SIDDHI SHINDE

DATASET INFORMATION

- **Dataset Name:** ENVIRONMENTAL IMPACT DATA
- **Source:** Public dataset Kaggle
- **The provided dataset contains 50,000 records with the following columns:**
 - - ID
 - - Carbon Emissions (kg)
 - - Water Consumption (liters)
 - - Energy Usage (kWh)
 - - Waste Generated (kg)
 - - Recycling Rate (%)
 - - Air Quality Index (AQI)
 - - Region
 - - Industry
 - - Product Type
 - - Category
 - - Subcategory
 - - Compliance LevelData

FUNCTIONAL REQUIREMENTS

- **Filters:**
 - Year
 - Region
 - Industry
 - Product Type
 - Compliance Level
- **KPI indicators:** Highlight key metrics for each region.
 - Total Carbon Emissions
 - Average Recycling Rate
 - Total Energy Usage
 - Total Water Consumption

FUNCTIONAL REQUIREMENTS

Charts and Visuals:

1.Bar chart:

→Display total water consumption by region.

2.Line chart:

→Display trends of energy usage over time.

3.Heatmap:

→Show recycling rates by industry and region.

4.Pie chart:

→Display the distribution of compliance levels.

5.Scatter Plot:

→Show the relationship between carbon emissions and recycling rates & identifying areas for improvement.

DASHBOARD

Environmental Impact Dashboard

Filter

Year

Product Type

Industry

Region

Compliance Level

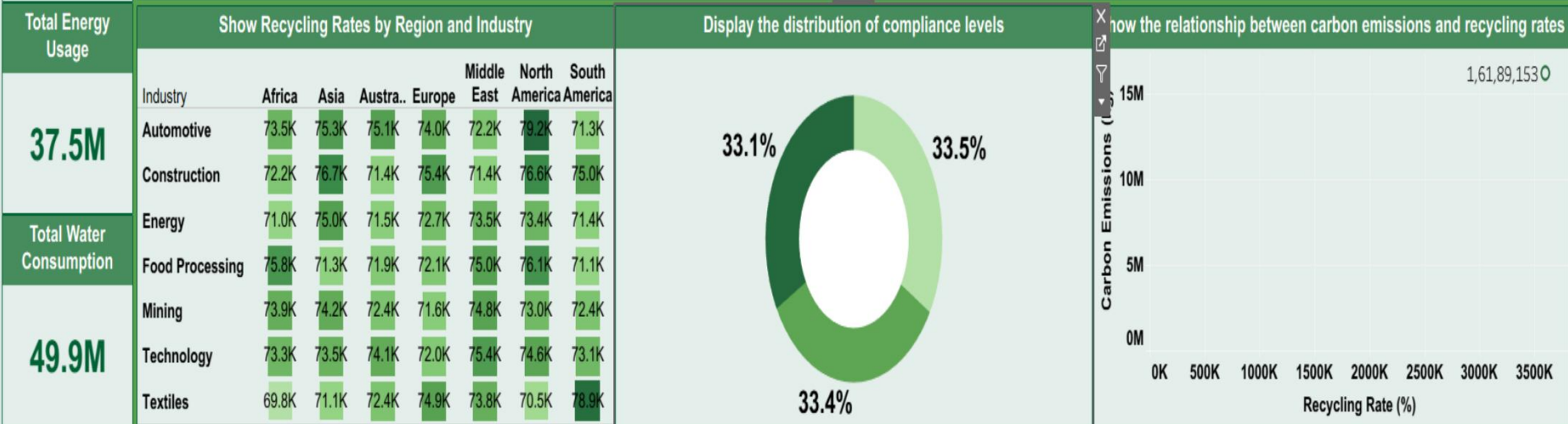
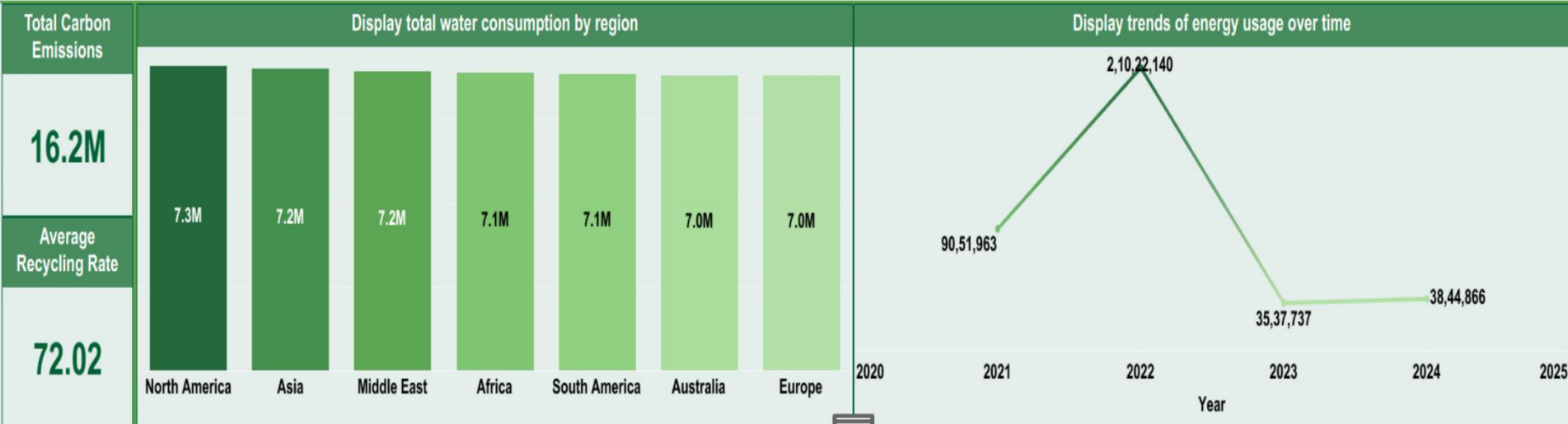
(All)

(All)

(All)

(All)

(All)



INSIGHTS

- Carbon emissions, energy use, and water use are all very high.
- Water usage is similar across all regions.
- Energy usage changes a lot by year (unstable trend).
- Some industries recycle well, but some, like textiles, recycle less.
- Compliance levels are average, not strong.
- High recycling does not fully control high emissions.

CONCLUSION

- This dashboard gives a clear picture of the overall environmental situation.
- We can see that carbon emissions, water use, and energy use are very high, and some industries and regions need to improve their recycling and compliance levels.
- Overall, this dashboard can help in making better decisions to protect the environment and support sustainability.