

# Harsh Bajpai

## Business Requirement Document

### Dashboard Title: Environmental Impact Dashboard

#### Purpose

This interactive Tableau dashboard visualizes key environmental performance indicators including carbon emissions, energy usage, water consumption, and recycling rates across industries and regions.

Users can explore trends over time and assess sustainability efforts using filters for compliance level, industry, product type, region, and year. The dashboard enables a holistic view of global environmental impact with clear benchmarking tools.

#### Business Value & Insights

- Monitor and compare carbon emissions and energy usage across different regions and years.
- Analyze recycling performance by region and industry to support effective waste reduction strategies.
- Identify high-performing sectors and areas needing improvement using compliance level distribution.
- Observe the relationship between carbon emissions and recycling rates to inform sustainability planning.
- Enable real-time visibility into energy and water consumption for accountability and performance tracking.

#### Key Performance Indicators (KPIs)

- Total Carbon Emissions: 16.19M kg
- Average Recycling Rate: 72.02%
- Total Energy Usage: 37.46M kWh
- Total Water Consumption: 49.89M liters

#### Charts and Visualizations

- Line Chart: Trends in energy usage over years.
- Bar Chart: Total carbon emissions by region.
- Heatmap: Recycling rates by industry and region.
- Pie Chart: Distribution of compliance levels.
- Scatter Plot: Relationship between carbon emissions and recycling rates.

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### Filters and Interactivity

- Filters available for Compliance Level, Industry, Product Type, Region, and Year.
- Interactive filtering across all visuals.
- Hover-enabled tooltips for detailed metric insights.
- KPIs and charts dynamically update with user selections.

### Export Options

- Exportable visuals and summary metrics.
- Option to download filtered dashboard state as a PDF.
- Branding support with watermark if required.

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