

## PowerBI dashboard for waste management

### 1. Waste Generation Report:

- Total waste generated by category (recyclable, compost, landfill) – displayed as a bar chart or pie chart.
- Trends in waste generation over time – displayed as a line graph.
- Breakdown of waste generation by area/region – displayed as a map.

### 2. Recycling Efficiency Report:

- Percentage of waste successfully recycled – displayed as a gauge chart or KPI card.
- Comparison of manually sorted vs AI-sorted recycling rates – displayed as a bar chart.
- Breakdown of recycled materials (e.g., paper, plastic, glass, metal) – displayed as a stacked bar chart or pie chart.

### 3. Waste Collection Logistics Report:

- Number of waste collection routes optimized with AI – displayed as a KPI card.
- Time and fuel savings from optimized routes – displayed as KPI cards.
- Comparison of waste collected per route before and after AI optimization – displayed as a bar chart.

### 4. Waste Reduction Forecasting Report:

- Projected waste generation and potential waste reduction by area/region – displayed as a map and a line graph.
- Effectiveness of targeted waste reduction efforts – displayed as a line graph.

### 5. Waste Generation Insights Report:

- Community or commercial entity waste generation patterns – displayed as a bar chart or pie chart.
- Identified correlations or trends in waste generation – displayed as a line graph or scatter plot.