

## Fiscal 2002 Material Flow

# Tracking the environmental load of our production activities

The environmental load from production activities in 2002 was visualized as a material flow in which raw materials, energy and water were named as inputs, while products, the final disposal amount of industrial waste, wastewater, the amount of CO<sub>2</sub> emissions and the amount of organic solvent release into the atmosphere were plotted as outputs.

### INPUT

**Raw materials:** Total weight of materials used in production activities

**Energy:** Amount of electric power purchased from power companies and amount of heavy oil, light oil, natural gas, LPG and other fuels converted into the amount of crude oil

**Water:** Amount of tap water, industrial water and ground water used

### OUTPUT

**Final disposal amount of industrial waste:** Amount of industrial waste that could not be recycled and was consequently buried as landfill

**Wastewater:** Amount of domestic wastewater and industrial wastewater

### Amount of CO<sub>2</sub> released into atmosphere:

Amount of emissions originated in power generation and fuel use, and amount of emissions from deodorizing furnaces and incinerators

**Amount of organic solvent released into atmosphere:** Amount of untreated solvent that is released into the atmosphere

### Other Terminology

**Material recycling:** The act of reusing waste as a raw material

**Thermal recycling:** The act of using waste as fuel and recovering the heat generated by combusting that waste as heat energy

**RDF (Refuse Derived Fuel) boiler:**

A boiler that reuses waste as a solid fuel

**Deodorizing furnace:** Equipment that breaks down organic solvents through incineration

**Heat recovery boiler:** Equipment that produces steam by reusing the heat generated by a deodorizing furnace

**Solvent recovery unit:** Equipment that recovers organic solvents through active charcoal absorption

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Figures for fiscal 2001 are shown in parentheses.

\*The final disposal amount of industrial waste was redefined this year and applied to figures for fiscal 2001.

