

# A high recycle rate aiming a "Sustainable Society"

## Atmospheric Emissions

●CO <sub>2</sub> emissions	
Production	49,561 tons-CO <sub>2</sub>
Transportation	536 tons of-CO <sub>2</sub>

## Manufactured Products

●Products	
Production	33,633 million yen
Packaging supplies	174 million yen

\*Purchase = The monetary value purchased use

## Resources Used

●Resources	
Raw Materials (Metal)	1,550 tons
Oils (Cutting fluid, Grinding fluid)	349 kl
●Energy	
Purchased electric power	61,333 Mwh
Crude oil power generation	5,140 kl
Air conditioning	847 kl
Gas(LPG)	746 tons
●Water	
Water supply	115,293 m <sup>3</sup>
Water for industrial use	19,827 m <sup>3</sup>
Well water	16,901 m <sup>3</sup>
●Paper	
Copy paper (A4 size)	2,750,000 sheets



**OSG's Nine Plants**

## Waste recycling

Metal scrap	612.6 tons
Cardboard boxes (sold for re-use)	40.2 tons
Waste oil (sold for re-use, recycled)	345.2 tons
Oil sludge (sold for re-use, recycled)	116.1 tons
Diatomaceous soil (sold for re-use, recycled)	304.2 tons
Waste solvents (recycled)	0 tons
Waste grinding wheels (recycled)	36.6 tons
Waste plastic (recycled)	12.4 tons
Wood chips (recycled)	60.7 tons
Others (recycled)	70.7 tons
<b>Total</b>	<b>1,598.7 tons</b>

## Water Emissions

●Drainage Water	
Drainage water	152,021 m <sup>3</sup>

\*Most drainage water is domestic drainage water.  
We have balanced our water use so that the amount of drainage water equals our water usage.  
50~60% of actual drainage water is estimated to be from the use of water-soluble coolants and the evaporation from air conditioning, etc.

## Subjected Material of PRTR

Chromium (metal contents)	70.5 tons
Cobalt (metal contents)	58.8 tons
Manganese (metal contents)	5.3 tons
Molybdenum (metal contents)	52.8 tons
Vanadium(metal contents)	29.2 tons

\*The "metal contents" are components of raw material, and emitted in the grinding sludge.

## Emissions waste material

Amount for re-use	781.8 tons
Recycled amount	816.9 tons
Reclaimed amount	1.4 tons
<b>Total output</b>	<b>1,600.1 tons</b>

## Recycling Ratio

**99.9%**