

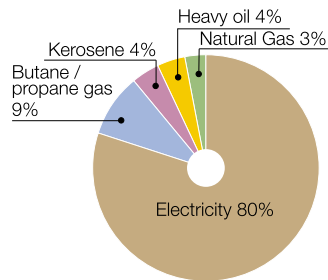
# To Prevent Global Warming

## Surpassed CO<sub>2</sub> Reduction Targets

In fiscal 2004, for the CO<sub>2</sub> emission rate\*), we achieved 18% reduction, surpassing our target of 17% reduction (relative to fiscal 1997). However, the Kyoto Protocol was brought into effect this February, raising expectations for more voluntary efforts and we will continue to make efforts to reduce CO<sub>2</sub>, by setting more aggressive targets (fiscal 2005 goal: 20% reduction).

Major energy conservation measures for the previous year include efficient use of electricity and exhaust heat through co-generation, use of engine compressors during summer months when the energy demand is at its peak and energy conversion from heat treatment furnaces.

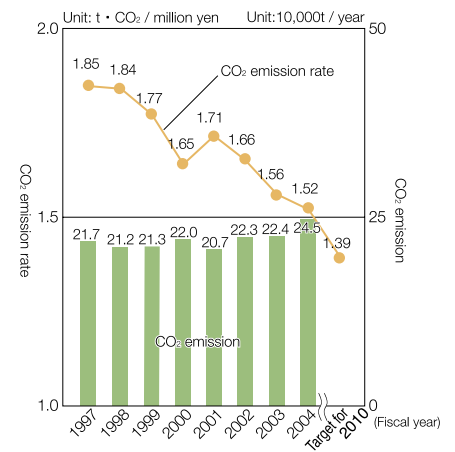
■ NTN's CO<sub>2</sub> emission by Energy Source



■ Energy Consumption (Yearly)

Electricity		512,492,000 kWh
Petroleum	Heavy oil A	3,519 kl
	Kerosene	4,245 kl
Gas	Butane/propane	7,305 t
	Natural gas	3,217 km <sup>3</sup>

■ Annual trends in CO<sub>2</sub> emission rate



\* CO<sub>2</sub> emission rate (ton/million yen) =  $\frac{\text{CO}_2 \text{ emission (ton)}}{\text{Sales added value amount (million yen)}}$

## Major Energy Conservation Measures

### ● Introduction of Co-generation facilities

In the past, the NTN Group has introduced co-generation facilities at four operating sites. The power generated is used onsite and by utilizing heat exhaust, we are able to reduce CO<sub>2</sub> emission.



Co-generation facilities (NTN Powder Metal Corporation)

### ● Reduced Electricity Costs through the Mebius Link System

At Iwata Works, we introduced the Mebius Link System that conducts centralized control of air conditioning compressors and were able to reduce CO<sub>2</sub> emission from excessive cooling.

This system conducts centralized control of several compressors in the building using computers. Randomly selected compressors are switched off for several minutes during a given period of time and air conditioning is switched to fan and as a result we were able to maintain a comfortable room temperature while reducing energy consumption.



Control equipment installed in outdoor air conditioning units (3 unit group)

Computer for central control

### ● Constructed Up-to-date Energy Saving Plant

NTN has completed the construction of the Mie Works as an up-to-date plant with reduced environmental hazard. At this plant, we are improving productivity through the "Monozukuri" movement and we are actively utilizing natural energy by introducing wind and solar power generation.

Solar power generation panels

NTN Mie Works



Wind power generator