

## Pursuing methodical environmental activities in three priority fields

### Making CO<sub>2</sub> reduction our most important issue and taking fundamental steps

The NTN group has environmental targets to achieve by fiscal 2010 in three fields: preservation of the global environment, creating a recycling society, and maintaining and improving the environmental management system. These targets were set in fiscal 1998 to enable more methodical environmental activities, and we have taken concrete action along these lines ever since.

In fiscal 2009, we notably set “promoting energy conservation and reducing CO<sub>2</sub> emissions,” “participating in local environmental activities,” and “promoting green procurement” as priority goals, and launched full-scale initiatives in these areas.

Our total CO<sub>2</sub> emissions in fiscal 2009 decreased to 250,000 tons, due to both reduced production in Japan and energy conservation improvements.

Our zero emissions efforts in fiscal 2009 resulted in a recycling

### Results of Environmental Management Activities in Fiscal 2009

Purpose		Fiscal 2009 Targets		Fiscal 2009 Results	Evaluation
Preservation of the global environment	Reduce CO <sub>2</sub> emissions	Domestic	Achieve total CO <sub>2</sub> emissions of 250,000 tons/year or less Achieve an 8% improvement in CO <sub>2</sub> emissions rate over fiscal 1997	Achieved total CO <sub>2</sub> emissions of 250,000 tons/year or less Achieved a 14% improvement in CO <sub>2</sub> emissions rate over fiscal 1997	😊
		Overseas	Achieve a 3% increase in CO <sub>2</sub> emissions rate over fiscal 2006	Achieved a 7% improvement in CO <sub>2</sub> emissions rate over fiscal 2006	😊
	Reduce air, water, and ground pollution	Domestic	Replace halon fire extinguishers with CO <sub>2</sub> fire extinguishers 47 halon units remaining at the end of fiscal 2009	Replace halon fire extinguishers with CO <sub>2</sub> fire extinguishers 23 halon units remained at the end of fiscal 2009	😊
			Reduce the use of substances designated by PRTR Law* <sup>1</sup> by 38% over fiscal 2006	Reduced the use of substances designated by PRTR Law by 55% over fiscal 2006	😊
	Participate in local environmental activities	Domestic	Promote local greening activities (e.g., “NTN Kigyo no mori activities (NTN corporate forest stewardship))	Conducted Kigyo no mori activities in Iwata, Okayama, Nagano and Kinan	😊
Creating a recycling society	Reduce waste materials	Domestic	Work toward achieving zero emissions with a recycle rate of 99.5%	Worked toward achieving zero emissions and achieved a recycle rate of 99.9%	😊
			Reduce landfill waste to 25 tons/month or less	Reduced landfill waste to 4.9 tons/month	😊
	Preserve resources	Domestic	Achieve zero emissions with a recycle rate of 96.3%	Worked toward achieving zero emissions and achieved a recycle rate of 95.6%	😞
			Reduce paper consumption by 46.2% over fiscal 1998	Reduced paper consumption by 46.8% over fiscal 1998	😊
			Reduce Styrofoam usage by 92.4% over fiscal 1999	Reduced Styrofoam usage by 98.7% over fiscal 1999	😊
Maintaining and improving the environmental management system	Internal systems	Domestic Overseas	Prepare systems to obtain ISO 14001 certification at new sites (Joining multi-site certification in fiscal 2010)	Promoting certification for NTN Kamiina Corporation, NTN Bizen Corporation, and Elemental Technology R&D Center	😐
	Promote green procurement	Domestic	Respond robustly to investigations of environmentally hazardous substances	Replied to survey requests from customers (1,169/year)	😊
			Implement hazardous substance audits (Internal audits, supplier audits)	We have not implemented hazardous substance audits at partial sites.	😞
			Conducted ongoing incoming inspections	Continuously conducted at each operating site	😐
	Encourage suppliers and vendors to implement environmental management systems	Domestic	Support key suppliers in obtaining certification such as ISO 14001, achieving 90% certification or more	Supported key suppliers in obtaining certification such as ISO 14001, achieving 92% certification	😊
Comply with new regulations	Domestic	Comply with amended Act on the Rational Use of Energy and amended PRTR Law	Comply with amended Act on the Rational Use of Energy: determine energy use in offices Comply with amended PRTR Law: Acquired new MSDS* <sup>2</sup>	😐	

\*1 PRTR Law: Pollutant Release and Transfer Register

\*2 MSDS: Material Safety Data Sheet

rate in Japan of 99.9%, exceeding our target of 99.5%. However, our overseas recycling rate was 0.7 of a percentage point lower than our target of 96.3%.

### Ongoing acceptance of incoming inspections of environmentally hazardous substances

The NTN group continued to conduct incoming inspections of environmentally hazardous substances in response to the

European Union's RoHS Directive\*<sup>1</sup> and ELV Directive\*<sup>2</sup>. However, since audits have not implemented for hazardous substances at partial sites, we intend to correct this oversight in fiscal 2010.

\*1 RoHS Directive: This directive prohibits the use of designated hazardous substances in electrical and electronic devices.

\*2 ELV Directive: This directive aims to limit hazardous substances from vehicles by mandating recyclable materials.

#### Fiscal 2010 Environmental Targets

Purpose		Fiscal 2010 Targets	
Preservation of the global environment	Reduce CO <sub>2</sub> emissions	Domestic	Achieve total CO <sub>2</sub> emissions of 290,000 tons/year or less (Target emissions coefficient for power suppliers) Achieve a 20% improvement in CO <sub>2</sub> emissions rate over fiscal 1997
		Overseas	Achieve a 10% improvement in CO <sub>2</sub> emissions rate over fiscal 2006
	Reduce air, water, and ground pollution	Domestic	Completely phase out halon fire extinguishers by fiscal year-end
Reduce the use of substances designated by PRTR Law by 45% over fiscal 2006			
Participate in local environmental activities	Domestic	Promote local greening activities Establish Kigyo no mori plan for the surrounding Kuwana area (Commence activities from second half of fiscal 2010)	
Creating a recycling society	Reduce waste materials	Domestic	Work toward achieving zero emissions with a recycle rate of 99.7% Reduce landfill waste to 10 tons/month or less
		Overseas	Achieve zero emissions with a recycle rate of 98%
	Preserve resources	Domestic	Reduce paper consumption by 48% over fiscal 1998
Reduced Styrofoam usage by 98.8% over fiscal 1999			
Maintaining and improving the environmental management system	Internal systems	Domestic	Establish system for obtaining global (all operating sites) ISO 14001 certification (NTN Houdatsushimizu, NTN Hakui, NNMI)
		Overseas	
	Promote green procurement	Domestic	Formulate and promote plan for alternatives to phthalate esters
			Implement hazardous substance audits at all sites
			Continue conducting incoming inspections Zero complaints of environmentally hazardous substances
Encourage suppliers and vendors to implement environmental management systems	Domestic	Support key suppliers in obtaining certification such as ISO 14001, achieving 95% certification or more	
Comply with new regulations	Domestic	Track usage of substances designated by the amended PRTR Law Respond robustly to the amended Soil Contamination Countermeasures Act	



Turbo chiller for air conditioning system (NTN Kongo Corp.)



Solar power generator (Elemental Technology R&D Center)