

Targets and Results

Spearheading activities to achieve a harmonious existence with the global environment based on three main points

Fundamental CO₂ reductions

The NTN Group has environmental targets to achieve by fiscal 2010 in three areas: preservation of the global environment, creating a recycling society, and maintaining and improving the environmental management system. These targets were set in fiscal 1998, and since then, we have been methodically carrying out environmental activities.

In fiscal 2008, we set “promoting energy conservation and reducing CO₂ emissions,” “participating in local environmental activities,” and “promoting green procurement” as main goals and we started initiatives in these areas. We believed that reducing CO₂ emissions was the most important issue and our Head Office and production departments worked together on a “CO₂ reduction project” to effect fundamental reductions.

Environmental results in fiscal 2008						
Purpose		Fiscal 2008 Targets	Fiscal 2008 Results	Evaluation	Page	
Preservation of the global environment	Reduce CO ₂ emissions	Domestic	• Achieve total CO ₂ emissions* ¹ of 352,500 tons/year or less	• Achieved total CO ₂ emissions of 311,000 tons/year (Reference: Achieved CO ₂ emissions rate* ² 15.7% lower than fiscal 1997)		p. 33
		Overseas	• Achieve a 13% improvement in CO ₂ emissions rate over fiscal 2006	• 7.5% increase in CO ₂ emissions rate over fiscal 2006		—
	Reduce air, water, and ground pollution	Domestic	• Replace 75 halon fire extinguishers with CO ₂ fire extinguishers. (with 135 halon units remaining at the end of fiscal 2008)	• Replaced 124 halon fire extinguishers with CO ₂ fire extinguishers (with 86 units remaining at the end of fiscal 2008)		—
			• Reduce the use of substances designated by PRTR law by 33.5% over fiscal 2006	• Reduced the use of substances designated by PRTR law by 39.5% over fiscal 2006		p. 36
Participate in local environmental activities	Domestic	• Promote local greening activities (e.g. “NTN Kigyo no mori: (NTN corporate forest stewardship) activities)	• Signed agreements with local governments in Iwata and Okayama and started greening activities		p. 25	
Creating a recycling society	Reduce waste materials	Domestic	• Work toward achieving zero emissions with a recycle rate of 99%	• Worked toward achieving zero emissions and achieved a recycle rate of 99.6%		p. 35
			• Reduce landfill waste to 43 tons/month or less	• Reduced landfill waste to 18.1 tons/month		p. 35
	Overseas	• Achieve zero emissions with a recycle rate of 96.3%	• Worked toward achieving zero emissions and achieved a recycle rate of 92.4%		p. 35	
	Preserve resources	Domestic	• Reduce paper consumption by 42.4% over fiscal 1998	• Reduced paper consumption by 43.4% over fiscal 1998		—
		• Reduce styrofoam usage by 88.4% over fiscal 1999	• Reduced styrofoam usage by 90.1% over fiscal 1999		—	
Maintaining and improving the environmental management system	Internal systems	Domestic	• Develop a structure to have new operating sites obtain certification	• We are preparing Kamiina, Haku, Houdatsu Shimizu (2010), and Bizen (2011) for inclusion in our multi-site certification.		p. 28
		Overseas	• Obtain ISO certification at NTN-RAB and NTK	• NTK was certified in April		p. 28
	Promote green procurement	Domestic	• Inform internal and external parties of our Green Procurement Standard • Carry out internal audits related to environmentally-hazardous substances • Cement the practice of performing incoming inspections using analytical devices • Entrench proper management of inventory containing environmentally-hazardous substances • Pass all customer audits	• Analyzed supply chain regarding the Green Procurement Standard. • Carried out internal and supplier audits related to environmentally-hazardous substances • Introduced analytical devices for incoming inspections • Passed all customer audits		p. 36
	Encourage suppliers and vendors to implement environmental management systems	Domestic	• Encourage suppliers to obtain certification such as ISO 14001 and obtain 86% certification	• Supported suppliers in their efforts to obtain certification such as ISO 14001, achieving 86% certification		—
	Comply with new regulations	Domestic	• Comply with REACH (pre-registration)	• Pre-registration complete. Currently engaged in an investigation of SVHC content.		p. 36

*1 Calculated with the emission factors from each power company in fiscal 2006.

*2 CO₂ emissions rate (tons/1 million yen) = CO₂ emissions (tons) / Value-added production (1 million yen). (Value-added production is the production output minus the corresponding cost.)

Achieved/In progress Not achieved

Our total CO₂ emissions in fiscal 2008 were 311,000 tons due to both reduced production in Japan and energy conservation improvements.

Our zero emissions efforts in fiscal 2008 resulted in a recycling rate in Japan of 99.6%, exceeding our target of 99%, but we were not able to meet our overseas zero emissions target.

In terms of promoting green procurement, we reinforced

our incoming inspections and created a system to manage environmentally-hazardous substances in response to the European Union's RoHS Directive and ELV Directive (see p. 36).

For fiscal 2009, we re-established a target for our CO₂ emissions rate, which is an indicator of production efficiency. We will focus on the emissions rate and on our total emissions target as we work to reduce CO₂ emissions.

Environmental targets in fiscal 2009 and fiscal 2010				
Purpose		Fiscal 2009 Targets		Fiscal 2010 Targets
Preservation of the global environment	Reduce CO ₂ emissions	Domestic	<ul style="list-style-type: none"> • Achieve total CO₂ emissions of 250,000 tons/year or less • Achieve an 8% improvement in CO₂ emissions rate over fiscal 1997 	<ul style="list-style-type: none"> • Achieve total CO₂ emissions*3 to 317,000 tons/year or less • Achieve a 25% improvement in the CO₂ emissions rate over fiscal 1997
		Overseas	<ul style="list-style-type: none"> • Achieve a 3% in CO₂ emissions rate over fiscal 2006 	<ul style="list-style-type: none"> • Achieve a 15% improvement in CO₂ emissions rate over fiscal 2006
	Reduce air, water, and ground pollution	Domestic	<ul style="list-style-type: none"> • Replace 47 halon fire extinguishers with CO₂ fire extinguishers (with 39 units remaining at the end of fiscal 2009) 	<ul style="list-style-type: none"> • Completely phase out halon fire extinguishers
			<ul style="list-style-type: none"> • Reduce the use of substances designated by PRTR law by 38% over fiscal 2006 	<ul style="list-style-type: none"> • Reduce the use of substances designated by PRTR law by 40% over to fiscal 2006
Participate in local environmental preservation activities	Domestic	<ul style="list-style-type: none"> • Promote local greening activities (e.g. "NTN Kigyo no mori" (NTN corporate forest stewardship) activities) 	<ul style="list-style-type: none"> • Promote local greening activities (e.g. "NTN Kigyo no mori") 	
Creating a recycling society	Reduce waste materials	Domestic	<ul style="list-style-type: none"> • Work toward achieving zero emissions with a recycle rate of 99.5% 	<ul style="list-style-type: none"> • Work toward achieving zero emissions with a recycle rate of 99.5%
			<ul style="list-style-type: none"> • Reduce landfill waste to 25 tons/month or less 	<ul style="list-style-type: none"> • Reduce landfill waste to 25 tons/month or less
	Overseas	<ul style="list-style-type: none"> • Work toward achieving zero emissions with a recycle rate of 96.3% 	<ul style="list-style-type: none"> • Achieve zero emissions with a recycle rate of 98.3% 	
Preserve resources	Domestic	<ul style="list-style-type: none"> • Reduce paper consumption by 46.2% over fiscal 1998 	<ul style="list-style-type: none"> • Reduce paper consumption by 50% over fiscal 1998 	
		<ul style="list-style-type: none"> • Reduce styrofoam usage by 92.4% over fiscal 1999 	<ul style="list-style-type: none"> • Completely phase out styrofoam 	
Maintaining and improving the environmental management system	Internal systems	Domestic	<ul style="list-style-type: none"> • Prepare systems to certify new operating sites 	<ul style="list-style-type: none"> • Have all operating sites around the world obtain ISO 14001 certification
	Promote green procurement	Domestic	<ul style="list-style-type: none"> • Ensure full compliance with our Green Procurement Standard • Respond robustly to investigations of environmentally-hazardous substances (implement a chemical substances management system) • Advance audit of environmentally-hazardous substances • Continue incoming inspections 	(This goal will be set at the end of fiscal 2009)
	Encourage suppliers and vendors to implement environmental management systems	Domestic	<ul style="list-style-type: none"> • Support suppliers in efforts to obtain environmental certifications and achieve 90% certification 	<ul style="list-style-type: none"> • Have all suppliers obtain environmental certification
	Comply with new regulations	Domestic	<ul style="list-style-type: none"> • Comply with the amended Act on the Rational Use of Energy and the amended PRTR Law. 	(This goal will be set at the end of fiscal 2009)

*3 Calculated based on local power company's target emissions factors for fiscal 2010.