

► Environmental Goals and Results

What Was Accomplished in Fiscal 2004 in Relation to the 2005 Environmental Goals?

JR East has established environmental goals to be met by fiscal 2005. Each year we review our performance, both qualitatively and quantitatively, and when necessary develop strategies to make improvements the next year.

Category	Main Activities	Target for FY 2005	
			Base value (FY 1990)
Environmental management	<ul style="list-style-type: none"> ● Environmental management led by the Committee on Ecology at JR East Head Office and branch offices ● Acquisition of ISO14001 certification at the Nagano General Rolling Stock Center 		
Measures to prevent global warming	<ul style="list-style-type: none"> ● Introduction of energy-efficient railcars ● Promotion of intermodal transport (<i>Park & Ride, Rail & Rent-a-Car</i>) ● Reduction of CO₂ emissions from power generation and supply 	CO ₂ emissions from business activities	2.76 million t-CO ₂
		CO ₂ emissions (per unit of electricity generation) at JR East-operated thermal power plant	726 g-CO ₂ /kWh
		Ratio of energy-efficient railcars in total rolling stock	–
		Energy consumption to operate trains per unit of transport volume	20.6 MJ/car-km
		Number of large refrigerators using specified chlorofluorocarbons (CFCs)	82 units
Measures for resource conservation	<ul style="list-style-type: none"> ● Reduction and recycling of waste generated at stations and on trains (waste separation, recycling center improvements) ● Recycling of train tickets ● Recycling of waste generated at general rolling stock centers and during construction projects ● Use of office paper made from recycled newspapers collected at stations 	Recycling rate for waste from stations and trains	–
		Recycling rate for waste from general rolling stock centers (and railcar factories)	–
		Recycling rate for waste from construction projects	–
		Percent of recycled paper used in offices	–
Chemical management	<ul style="list-style-type: none"> ● Reduction of pollution from Kawasaki Thermoelectric Power Plant ● Appropriate management and treatment of organic solvents 	NO _x emissions at JR-East thermal power plant	994 tons
Environmental activities along railway lines	<ul style="list-style-type: none"> ● Continued noise reduction and other measures along Shinkansen and conventional lines (soundproof walls, continuous welded rails) ● Utilization of groundwater running into tunnels 	Reduction of noise to 75dB or less in designated residential areas along Tohoku and Joetsu Shinkansen lines	–
Environmental communication	<ul style="list-style-type: none"> ● Environmental protection activities in cooperation with local governments ● Tree planting along railway lines ● Tree planting under the Adatara Hometown Forestation Program ● Publishing the <i>Sustainability Report</i>, conduct environmental advertising 	Annual environmental protection activities	–
Research & development	<ul style="list-style-type: none"> ● Development of hybrid NE Train ● Development of noise reduction technology 		

Accomplishments and performance toward the 2008 environmental goals set in January 2004 will be reported in the next publication and onward.

Target Value	FY 2003 Results Actual figures in parentheses	FY 2004 Results Actual figures in parentheses	Evaluation	Reference pages
				24-25
20% reduction (2.20 million t-CO ₂)	20% reduction (2.20 million t-CO ₂)	13% reduction (2.39 million t-CO ₂)	—	30-33
30% reduction (508 g-CO ₂ /kWh)	31% reduction (504 g-CO ₂ /kWh)	30% reduction (510 g-CO ₂ /kWh)		
80%	72%	76%		
15% reduction (17.5 MJ/car-km)	11% reduction (18.3 MJ/car-km)	13% reduction (17.9 MJ/car-km)		
85% reduction (12 units)	83% reduction (14 units)	84% reduction (13 units)		
40%	39%	43%		34-36
75%	81%	82%		
85%	86%	91%		
100%	99%	98%		
60% reduction (402 tons)	66% reduction (341 tons)	58% reduction (417 tons)	—	37
100% (target for FY 2002)	100%	100%		38-39
—	15 locations 12,000 trees planted 2,400 participants	17 locations 25,000 trees planted 3,200 participants		40-41
				8-9, 31, etc.



Satoshi Seino, JR East Executive Vice President
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Working toward the goals for fiscal 2005, JR East newly achieved targets for the "recycling rate for waste from stations and trains." However, due to the stoppage of hydropower generation after the Niigata-Chuetsu Earthquake, we were forced to increase generation from our fossil-fuel-burning thermal power plant, which meant falling below our targets on two items we had achieved the previous year: "total CO₂ emissions from general business activities," and "NO_x emissions at Kawasaki Thermal Plant." Repair work is currently underway, and we aim to restart the damaged hydropower plant in the spring of 2006.

We continue to make improvements in "energy consumption to operate trains per unit of transport volume," thanks to the introduction of energy-efficient railcars.

Without the impacts caused by the earthquake, we would have been on-track regarding our fiscal 2005 targets, and therefore starting in 2005 we have set higher targets, and we are working to achieve our goals for fiscal 2008 (see page 21) which include new targets for the entire JR East Group.

Progress toward FY 2005 goals

- Achieved
- Satisfactory
- Behind schedule

Note: This year we made no entry in the "Evaluation" column for two items (CO₂ and NO_x emissions from business activities), as results were skewed by the impacts of the Niigata-Chuetsu Earthquake.