

What was accomplished in fiscal 2005 in relation to targets to be met by fiscal 2008?

JR East has set environmental targets to be met by fiscal 2008. Every fiscal year, we review our performance qualitatively and quantitatively to identify the causes of issues, which are later used for improvement in the next fiscal year.

Category of environmental conservation activities	Main activities	Target to be met by fiscal 2008	Base value (base year: fiscal 1990)
Environmental management	<ul style="list-style-type: none"> ● Environmental management led by the Committees on Ecology at JR East Head Office and branch offices ● Acquisition of ISO14001 certification at the Akita General Rolling Stock Center ● Commencement of JR East Eco Activities 		
Measures to prevent global warming	<ul style="list-style-type: none"> ● Introduction of energy-efficient railcars ● Promotion of intermodal transportation (Park-and-ride scheme, Rail & Rent-a-Car service, etc.) ● Reduction of CO₂ emissions through power generation and supply 	CO ₂ emissions through business activities	2.76 million t-CO ₂
		CO ₂ emissions per unit of electricity generated at JR East's thermal power plant	726g-CO ₂ /kWh
		Energy-efficient train utilization rate	—
		Train energy consumption per unit of transportation volume	20.6 MJ/car-km
		Number of large refrigerators using specified chlorofluorocarbons (CFCs)	82 units
Measures for resource circulation	<ul style="list-style-type: none"> ● Reduction and recycling of waste collected from stations and trains (sorted waste collection, more recycling centers) ● Recycling of train tickets ● Recycling of waste generated at General Rolling Stock Centers and through construction projects ● Utilization of office paper made from recycled newspapers collected at stations 	Recycling rate for waste collected from stations and on trains	—
		Recycling rate for waste generated at General Rolling Stock Centers	—
		Recycling rate for waste generated through construction projects	—
		Recycling rate for general waste	—
		Recycled paper utilization rate	—
Chemical substance management	<ul style="list-style-type: none"> ● Reduction of environmental pollutants generated at the Kawasaki Thermal Power Plant ● Appropriate management and treatment of waste with PCBs 	NO _x emissions from JR East's thermal power plant	994 tons
Environmental activities along railway lines	<ul style="list-style-type: none"> ● Implementation of noise reduction measures along Shinkansen and conventional lines (Installation of soundproof walls, continuous welded rails) ● Utilization of springwater in tunnels 	Reduction of noise to 75dB or less in designated residential areas ^{*1} along the Tohoku and Joetsu Shinkansen lines	—
Environmental communication	<ul style="list-style-type: none"> ● Communicating environmental information through railcar advertisements and at stations ● Tree planting along railway lines ● Tree planting under the Adataro Hometown Forestation Program ● Publication of the <i>Sustainability Report</i>, and launching of environmental campaigns 	Taking part in specific environmental protection activities every year	—
Research & development	<ul style="list-style-type: none"> ● Development of hybrid NE Train ● Development of noise reduction technology 		

Targets for the JR East Group

^{*}"average for 4 years of plan" is the fiscal 2005–2008 average.

Target value	Results for fiscal 2004 *Actual value in parentheses	Results for fiscal 2005 *Actual value in parentheses	Evaluation	Reference pages
				38–39, 42
22% reduction (2.15 million t-CO ₂)	13% reduction (2.39 million t-CO ₂)	7% reduction (2.58 million t-CO ₂)	– *2	44–47, 51
40% reduction (436 g-CO ₂ /kWh)	30% reduction (510 g-CO ₂ /kWh)	26% reduction (534 g-CO ₂ /kWh)	– *2	
82%	76%	81%		48–50
19% reduction (16.7 MJ/car-km)	13% reduction (17.9 MJ/car-km)	15% reduction (17.6 MJ/car-km)		
100% reduction (0 units)	84% reduction (13 units)	88% reduction (10 units)		
45%	43%	47%		
85% (average for 4 years of plan*)	82%	90%		51
92% (average for 4 years of plan*)	91%	89%		
43%	38%	42%		
100%	86%	92%		52–53
63% reduction (368 tons)	58% reduction (417 tons)	54% reduction (462 tons)	– *2	
100% (target to be met by fiscal 2009)	(Target was met in residential areas)	(Target was met in residential areas)	–	54–55
–	25,000 trees planted at 17 locations by 3,200 participants	31,000 trees planted at 18 locations by 3,600 participants		
				43



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Vice Chairman of the Committee on Ecology

Fiscal 2005 was the first fiscal year of our initiatives to achieve our revised fiscal 2008 targets. In our efforts to prevent global warming, we have made good progress in reducing energy used for train operation by further introducing energy-efficient railcars. However, our hydroelectric plant was damaged due to the Niigata-Chuetsu Earthquake, and the plant's output for fiscal 2005 was roughly halved as a result. Because this loss was covered with electricity generated at our thermal power plant, our CO₂ emissions through business activities, CO₂ emissions per unit of electricity generated at JR East's thermal power plant, and NO_x emissions from JR East's thermal power plant all increased by a large amount. As we have already completed repairs of our hydroelectric plant and brought it back fully online in March 2006, the impact of the earthquake will thus be eliminated in our next report.

Although fiscal 2005 was the first year of our Group's revised targets, we have already produced results and made a good start toward achieving them. We remain committed to further promoting our environmental conservation activities, in line with the characteristics of each business of our Group companies.

Progress toward fiscal 2008 targets

- Achieved
- Satisfactory
- Behind schedule

***1 Measures to reduce noise along the Tohoku and Joetsu Shinkansen lines**
As we have expanded the coverage of noise reduction measures along Shinkansen lines since fiscal 2006, we plan to announce the results from the next fiscal year.

***2 Progress evaluation**
Due to the Niigata-Chuetsu Earthquake, we made no evaluation for CO₂ emissions through business activities, CO₂ emissions per unit of electricity generated at JR East's thermal power plant, and NO_x emissions from JR East's thermal power plant.