

Targets and outcomes

■ Accomplishments of environmental targets to be met in the fiscal year ending March 2009 and new targets to be met in the fiscal year ending March 2011

Category of environmental conservation activities	Main activities	Target to be met by fiscal 2009	Base value (base year: fiscal 1991)	Results for fiscal 2009	Results	Targets to be met by fiscal 2011
Measures to prevent global warming	Total CO ₂ emissions from railway business activities	22% reduction (as compared with fiscal 1991) (2.15 million t-CO ₂)	2.76 million t-CO ₂	18% reduction (2.26 million t-CO ₂) - Act on Promotion of Global Warming Countermeasures 24% reduction (2.10 million t-CO ₂) - relative to target management values *3	Achieved	50% reduction by fiscal 2031 (relative to fiscal 1991) 2.76 million t-CO ₂ → 1.38 million t-CO ₂ (reduction by 1.38 million t-CO ₂) 32% reduction by fiscal 2018 (relative to fiscal 1991) 2.76 million t-CO ₂ → 1.88 million t-CO ₂ (reduction by 0.88 million t-CO ₂)
	CO ₂ emissions per unit electricity generated at JR East's thermal power plant	40% reduction	726g-CO ₂ /kWh	36% reduction (465g-CO ₂ /kWh) - Act on Promotion of Global Warming Countermeasures 38.9% reduction (444g-CO ₂ /kWh) - relative to target management values *3	98.9% of the target figure achieved	No target has been established because CO ₂ emissions are controlled in the total CO ₂ emissions from railway business activities.
	Energy-efficient railcar utilization rate	82%	—	86%	Achieved	86%
	[A new establishment] Electricity used for train operation	—	—	4.06 billion kWh	—	2% reduction (relative to fiscal 2007) 4.17 billion kWh → 4.09 billion kWh (reduction by 0.08 billion kWh)
	Train energy consumption per unit transport volume	19% reduction	20.6MJ/car-km	15% reduction (17.5MJ/car-km) - Act on the Rational Use of Energy. 18.9% reduction (16.7MJ/car-km) - relative to target management values *3	99.9% of the target figure achieved	No target has been established because the basic unit is managed by newly adopted "Train electricity per unit transport volume."
	[A new establishment] Train electricity used per unit transport volume	—	—	1.80kWh/car-km	—	2% reduction (relative to fiscal 2007) 1.85 kWh/car-km → 1.81 kWh/car-km (reduction by 0.04kWh/car-km)
	[A new establishment] Energy saving at stations and offices	—	—	15.3 billion MJ	—	4.5% reduction (relative to fiscal 2007) 15.3 billion MJ → 14.6 billion MJ (reduction by 0.7 billion MJ)
	Large refrigerators using specified chlorofluorocarbons (CFCs)	100% reduction	82	100% reduction	Achieved	—
Measures for resource circulation	Recycling rate for waste generated at stations and on trains	45%	—	70%	Achieved	70%
	Recycling rate for waste generated at General Rolling Stock Centers, etc.	85% (Average for 4 years of plan) *1	—	92% (Average for 4 years of plan) *1	Achieved	95%
	Recycling rate for waste generated in construction projects	92% (Average for 4 years of plan) *1	—	90.7% (Average for 4 years of plan) *1	98.7% of the target figure achieved	92%
	Recycling rate for general waste	43%	—	55%	Achieved	No target has been established because all group companies set their own numerical target.
	Recycled office paper utilization rate	100%	—	92% *4	92.0% of the target figure achieved	100%
Chemical substance management	NO _x emissions from JR East's thermal power plant	63% reduction	994t	61.9% reduction (379t)	98.9% of the target figure achieved	No target has been established because all available measures with the current technology have been taken.
Environmental activities along railway lines	Reduction of noise to 75dB or less along the Tohoku and Joetsu Shinkansen Lines (in designated noise control area) *2	100% (Target to be met by fiscal 2010)	—	81%	Ongoing	100% (Fiscal 2010 targets have been achieved)
Environmental communication	Participation in specific environmental protection activities every year	Participation in tree planting, etc.	—	54 thousand trees planted at 18 locations		Participation in tree planting, etc.
Environmental management	[A new establishment] Setting of numeric targets by all group companies	—	—	Established		All group companies set their own numerical targets

■ Targets for the JR East Group

*1 Average for 4 years of plan Fiscal 2006-2009 average.

*2 Measures to reduce noise along the Tohoku and Joetsu Shinkansen Lines We have completed measures to reduce noise to 75dB or less, following guidance by the national government. In areas not subject to guidance, we are carrying out improvements to be completed in the fiscal year ending March 2010.

*3 Relative to target management values We manage progress toward achievement of targets for the fiscal year ending March 2009 using values calculated with coefficients in "Voluntary Action Plan on the Environment" by the Japan Federation of Economic Organizations, from the Federation of Electric Power Companies, and from other sources, as of the date that the targets were set, in order to clearly understand changes to our measures on a year-to-year basis.

*4 Recycled office paper utilization rate Papers sold as recycled paper by manufacturers are calculated as recycled paper.