















Targets and outcomes

■ Accomplishment of environmental targets for the fiscal year ended March 2011

Category of environmental conservation activities	Main activities	Targets to be met by fiscal 2011	Results for fiscal 2011	Results
Measures to prevent global warming	Total CO ₂ emissions from railway business activities	50% reduction by fiscal 2031 (relative to fiscal 1991 level) 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 level) 2.76 million t-CO ₂ ⇒ 1.88 million t-CO ₂ (reduction of 0.88 million t-CO ₂)	2.15 million t-CO ₂ [*]	
	Energy-efficient railcar utilization rate	86%	88% [*]	 Achieved 
	Electricity used for train operation	2% reduction (relative to fiscal 2007 level) 4.17 billion kWh ⇒ 4.09 billion kWh (reduction of 0.08 billion kWh)	4.01 billion kWh [*]	 Achieved 
	Train electricity used per unit transport volume	2% reduction (relative to fiscal 2007 level) 1.85 kWh/car-km ⇒ 1.81 kWh/car-km (reduction of 0.04 kWh/car-km)	1.81 kWh/car-km [*]	 Achieved 
	Energy saving at stations and offices	4.5% reduction (relative to fiscal 2007 level) 15.3 billion MJ ⇒ 14.6 billion MJ (reduction of 0.7 billion MJ)	15.8 billion MJ ^{**3}	
Measures for resource circulation	Recycling rate for waste generated at stations and on trains	70%	92% [*]	 Achieved 
	Recycling rate for waste generated at General Rolling Stock Centers, etc.	95%	97% [*]	 Achieved 
	Recycling rate for waste generated in construction projects	92%	96% [*]	 Achieved 
	Recycled office paper utilization rate ¹	100%	90% [*]	
Environmental activities along railway lines	Reduction of noise to 75 dB or less along the Tohoku and Joetsu Shinkansen Lines (in designated noise control area) ²	100% (Fiscal 2010 targets have been achieved)	100% [*]	 Achieved 
Environmental communication	Participation in specific environmental protection activities every year	Participation in tree planting, etc.	28 thousand trees planted at 15 locations [*]	—
Environmental management	Setting of numeric targets by all group companies	All group companies set their own numerical targets	Established	—

■ Targets for the JR East Group

¹ Recycled office paper utilization rate: Papers sold as recycled paper by manufacturers are calculated as recycled paper.

² Measures to reduce noise along the Tohoku and Joetsu Shinkansen Lines: We have completed measures to reduce noise to 75 dB or less, guided by the national government. For other areas we have independently carried out improvement projects and completed them during fiscal 2010.

³ Measures to save energy at stations and offices: Calculation is based on the energy categories used when the fiscal 2011 target was formulated.

■ Actual performance against FY 2011 targets

Two targets, "Energy saving at stations and offices" and "Recycled office paper utilization rate", were not accomplished.

● Energy saving at stations and offices

In respect of energy saving at stations, offices, etc., JR East has set a new environmental target for FY 2011 in June 2008, and has been striving for renewing conventional equipment to new energy-saving ones and encouraging employees to save energy. However, because of the construction of increased number of units on increased floor area of facilities, including barrier free facilities, and an increase in in-station stores, we could not achieve the target.

We are currently considering the setting of the targets separately for offices and transport departments in line with the Act on Rational Use of Energy (Energy Conservation Law).

● Recycled office paper utilization rate

JR East launched its effort to achieve its own target to raise the utilization rate of recycled office paper in 1996. Since the revision of the target in January 2005, it has been the target for the whole group. We have been striving for the target to accomplish 100% utilization of recycled paper as environment friendly paper. However, perception has changed and it is now commonly recognized that using FSC certified paper* is also environmentally friendly, and we have increased the use of FSC certified paper. Partly because of this reason, the Group could not achieve the target of 100% utilization of recycled paper.

In view of the fact that we are required to purchase environment-conscious goods and supplies, we try to set new targets, which may encourage the use of not only recycled office paper but also environment-friendly goods to the greatest extent possible.

* **FSC certified paper:** The paper made of virgin pulp, which is made only from the wood produced in compliance with local laws and regulations of the area of production (FSC certified paper, etc.)

● Setting of the next term target

We are now undertaking the formulation of the target from fiscal 2012 based on the close inspection of the past commitment and the current social conditions, and will announce the target as soon as it is finalized through press release and other media.