

“Balancing Environmental Protection with Business Activities” is Our Basic Philosophy that Underlies All Our Activities

In 1992, the JR East Group adopted its Basic Philosophy of balancing environmental protection with its business activities. Based on this philosophy, we are carrying out specific environmental protection measures by establishing activity guidelines and numerical targets.

Basic philosophy and basic policies for promoting ecological activities

Basic philosophy (established May 1992)

- The entire JR East Group, working together, will diligently strive to balance environmental protection with our business activities.

Basic policies (established May 1992)

- To contribute to customers' lives and local communities by providing a comfortable environment
- To develop and provide the technology needed to protect the global environment
- To maintain an awareness of environmental protection and raise the environmental awareness of our employees



Activity guidelines and targets for the promotion of ecological activities

Activity guidelines (established March 1996)

- 1 We work to prevent the waste of precious energy resources and to reduce CO₂ emissions –a known source of global warming– by enhancing our energy efficiency and introducing cleaner forms of energy.
- 2 We ensure the proper management and processing of environmental pollutants and ozone-depleting substances, in compliance with laws and regulations. Moreover, we do our best to reduce the usage and generation of such substances, and to adopt environmentally responsible substitutes when they are available.
- 3 We ensure the appropriate processing of various types of waste generated at our offices, establishments, stations, trains, etc. We strive to recycle waste and reduce the generation thereof, and to use more recycled and resource-saving products to minimize our burden placed upon the environment.
- 4 We respect the natural environment as a nurturer and source of life, and therefore we endeavor to reduce noise and vibration caused by train operations, thus achieving a harmonious relationship with the communities we serve.
- 5 We work to make railways a more attractive and environmentally friendly form of transportation.

See our website for the following information

URL <http://www.jreast.co.jp/eco/>

Commitment to sound recycling of resources

- Operation of recycling centers ● Initiatives at offices ● Initiatives in the life-style business ● Efficient use of water resources ● Joint efforts with customers to reduce load on environment ● Reducing and recycling train tickets ● Green procurement ● Use of waste collected in stations and recycled

Management of Chemical Substances

- Reducing chemical substances Reducing and replacing ozone depleting substances ● Chemical substance management ● Efforts at JR East's thermal power plant ● Management of PCBs

Environmental activities along railway lines

- Measures for dioxin generated at waste incinerators ● Harmonization with landscape ● Reducing the usage of herbicides ● Utilizing spring water in tunnels

Environmental management

- Promotion of environmental activities at each work place ● Environmental education now underway ● Award for environmental activities ● ISO14001 certification

Environmental accounting and environmental management indicators

Revision of Environmental Targets

Toward the end of March this year we announced the "JR East 2020 Vision – i do mu –." In this document we expressed our commitment to deal with global environmental problems actively and on a long-term basis. In light of this announcement we are revising the environmental targets that have been set to be achieved by fiscal ending March 2009.

In the "i do mu" document we announced our long-term target of reducing CO₂ emissions of railway operations. In order to achieve this, we are now setting new numerical targets for power usage for train operations, power usage for train operation per unit volume of transportation, and energy saving at stations and offices.

In our recycling program, we will set higher numerical targets for the recycle ratios of waste generated at stations and on trains, waste from general rolling stock centers, and waste generated from construction work.

Measures to prevent global warming by JR East non-consolidated

Item	Target for fiscal ending March 2009	New target
Total CO ₂ emissions of railway operations	22% reduction, compared to fiscal ended March 1991, 2.15 million t-CO ₂	50% reduction from fiscal ended March 1991 by fiscal ending March 2031 2.76 million t-CO ₂ ⇒ 1.38 million t-CO ₂ [1.38 million t-CO ₂ reduction]
		32% reduction from fiscal ended March 1991 by fiscal ending March 2018 2.76 million t-CO ₂ ⇒ 1.88 million t-CO ₂ [0.88 million t-CO ₂ reduction]

Note: Already announced in "JR East 2020 Vision – i do mu –."

Item	Target for fiscal ending March 2009	Fiscal ending March 2011 target
Ratio of energy-saving rolling stock	82%	86%
(new) Total electric power used for train operation	—	2% reduction from fiscal ended March 2007 4.17 b. kWh ⇒ 4.09 b. kWh [Reduction of 80 million kWh]
(new) Power used for train operation per unit volume of transportation	—	2% reduction from fiscal ended March 2007 1.85kWh/car km ⇒ 1.81kWh/car km [Reduction of 0.04 kWh/car km]
(new) Energy use at stations and offices	—	4.5% reduction from fiscal ended March 2007 15.3 b. MJ ⇒ 14.6 b. MJ [Reduction of 0.7 b. MJ]

Recycling of Resources

Item	Target for fiscal ending March 2009	Fiscal ending March 2011 target
Ratio of recycling of waste from stations and trains	45%	70%
Ratio of recycling of waste from general rolling stock centers	85% *1	95%
Ratio of recycling of waste generated at construction work	92% *1	92%

*1 Average from fiscal ended March 2006 to fiscal ending March 2009

Other environmental targets

(Noise reduction)

- Tohoku and Joetsu Shinkansen noise to be reduced to below 75 dB —100% (target to be achieved in fiscal ending March 2010) in areas targeted for noise reduction

(Group companies)

- All group companies will set their respective, specific numerical targets (new).

(Common targets for JR East group companies)

- Ratio of recycled paper for office use ... 100% (to be achieved by fiscal ending March 2011)
- Involvement in some specific environmental protection activities every year (participate in reforestation, etc.)

Column ● Eco-activities in different regions

Hachioji Branch Office, Uenohara Station

Locally-made posters asking customers' cooperation for sorted trash collection

In April 2006, in order to be sure to collect, sort and recycle a large amount of discarded newspapers and magazines as well as ordinary trash, posters made by our own employees and exclusive collection boxes were placed in stations. With customers' cooperation, the collected newspapers and magazines were contributed to the regional promotion societies. The proceeds from the sale of these materials to recyclers help to fund the promotion societies. The segregation and recycling of these waste materials reduced the total amount of trash generated



from stations and resulted in about 10% reduction in the cost of trash treatment.

Akita Branch Office, Akita General Rolling Stock Center

The medium-term targets set to be met by fiscal ending March 2009 called for reduction of electricity usage by 5%, water usage by 15% and waste generation by 51% (compared to fiscal ended March 2004). The progress of these efforts is posted on the bulletin board to encourage employees within the center, resulting in steady achievements. Also every month employees take part in environmental improvement activities in the neighborhood, in eco-festivals, and in forestation activities. In addition, a pamphlet is published to report more familiar eco-activities which our employees and those of our affiliated companies carry out at home as well as in their workplaces.

