

# Environmental Management System

## Creating an environment-conscious climate

JR East believes it is important to promote environmental activities with clear goals established for the entire JR East Group, and that every employee becomes actively involved. In order to build a climate in which all employees do so voluntarily, we are expanding the scale of our environmental activities by promoting “JR East Eco Activities” at each work place, developing leaders through environmental education, and sharing recognition of exceptional environmental efforts through the presentation of awards.

Established in 1992 and chaired by the president and CEO of JR East, the Committee on Ecology surveys the environmental impact of business activities, sets environment-related targets, implements environmental conservation activities and monitors progress toward target achievement, which is also examined by top management. The committee, with its headquarters in the Management Planning Department, functions as a cross-departmental body, and its members consist of the general managers of each department.

In order to strengthen environmental management as the JR East Group, by measures such as sharing issues among the group, the JR East Group Environment Management Promotion Conference is held every year, in which all parties responsible for environmental efforts in group companies participate.

■ Organizational structure to promote environmental management (as of August 1, 2009)



Department name	Main activities	Working group name
Environmental management	Promotion of environment conservation activities at each work place, promotion of environment management as a whole group, management of environmental targets and publication of environmental activities, etc.	* JR East Eco Activities WG * JR East Group environment management promotion WG
Measures to prevent global warming	Reduction of CO <sub>2</sub> emissions through reduced electricity use and new energy technologies, reduction of CO <sub>2</sub> emission volume throughout the entire transport system, etc.	* Eco station WG * Eco railcar WG * Railway usage promotion WG
Measures for resource circulation	Recycling of wastes from stations and trains, reduction and recycling of industrial waste, eco-friendly procurement, etc.	* Station & train waste WG
Chemical substance management	Management of ozone depleting substances, chemical substances, PCB, etc.	* PCB waste WG
Environmental activities along railway lines	Measures against noise, utilization of spring water in tunnels, conservation and utilization of railway trees, proper use of herbicide, etc.	* Railway trees conservation & utilization WG * Proper herbicide usage WG

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**Implementation of Environmental Education**

For effective environmental management, it is essential that all employees have appropriate knowledge on environmental issues. We provide environmental education lectures to a large number of our employees, ranging from new employees to people who are promoted in order to develop environmental activities in JR East and group companies. Through these lectures, we aim to expand the scale of our environmental activities. In the fiscal year ending March 2007, to enhance environmental activities at each group company, we began an “Environmental management training” program for people in charge of environmental matters in those companies.

**Environmental education & training system**

Education of environmental-activity promoters at organizations of JR East and group companies
<b>Environment management training (group companies)</b>
<ul style="list-style-type: none"> <li>● Persons trained: those responsible for environment at group companies</li> <li>● Objective: improvement of ability in environment management</li> <li>● Number of participants: 82</li> </ul>
<b>Environment management practical training</b>
<ul style="list-style-type: none"> <li>● Persons trained: those responsible for environment at local organizations, etc.</li> <li>● Objective: improvement of ability in environment-related matters as trainers to field offices, etc.</li> <li>● Number of participants: 32</li> </ul>
<b>Training for personnel responsible for environmental measures</b>
<ul style="list-style-type: none"> <li>● Persons trained: those responsible at each branch office</li> <li>● Objective: acquisition of basic knowledge such as environment-related laws</li> <li>● Number of participants: 16</li> </ul>
Environment education targeting a large number of participants
<p>Training for new recruits: 1,846</p> <p>Training for work-implementation managers: 240</p> <p>Training for new on-site supervisors: 163</p> <p>Implementation of training and lectures in branch offices</p>

**Environment-related commendation system**

Formal recognition was first extended for contributions to environmental preservation during the fiscal year ending March 2006. The system is to encourage JR East bodies and JR East Group companies to be engaged in environmental preservation, as well as to share information on exceptional efforts. As for activities during the fiscal year ending March 2009, two bodies and three group companies were recognized for their responsible, independent approaches to environmental activities.

Recognition from President	JR East Yokohama Branch Office	Helping employees improve environmental awareness by providing environment-related information every week and actively holding facility tours. Also actively participating in environmental preservation activities in the local community.
	LUMINE Co., Ltd.	Creating an in-house educational booklet and designating an ecology month, the company enhances its employees' awareness and has established a system for implementing environmental activities.
Recognition from Director General of Corporate Planning Headquarters	JR East Tokyo construction office	The office promotes efforts, including by cooperating companies, toward 100% recycling of byproducts from construction. It also undertakes zero-emission efforts in various construction projects.
	East Japan Amenitec Co., Ltd.	For window cleaning, the company changed from commercial glass detergent to a solution of effective microorganisms (EM), embodying environment consideration.
	JR East Mechatronics Co., Ltd.	Having committed itself in its environmental policies to “engage in environmental preservation through development of technologies, including automatic ticket gates and IC cards,” the company developed a ticket gate consuming less electricity than conventional ones.

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**Internal environmental audits**

At our General Rolling Stock Centers, for example, in-house auditors are trained through external training programs, and conduct routine audits at the centers in order to evaluate environmental activities. When an internal audit pointed out a problem in the management of waste separation, responsibilities for the management of waste and dump sites between JR East and group company were made clear.

■ ISO14001-certified facilities

Certified facilities	Year and month of certification	Certified facilities	Year and month of certification
〈JR East〉		〈Group companies〉	
Niitsu Rolling Stock Manufacturing Factory	Feb-99	East Japan Eco Access Co., Ltd.	Nov-99
Kawasaki Thermal Power Plant	Mar-01	LUMINE Co., Ltd.	Dec-00
Tokyo General Rolling Stock Center	Mar-01	Nippon Restaurant Enterprise Co., Ltd. (manufacturing section)	Sept-02
Niigata Mechanical Technology Center	Mar-01	Nagano Railway Servicing Co., Ltd.	Jan-07
Omiya General Rolling Stock Center	Mar-02	JR East Mechatronics Co., Ltd.	Mar-08
Shinkansen General Rolling Stock Center	Nov-02	East Japan Marketing & Communications, Inc.	Aug-08
Koriyama General Rolling Stock Center	Dec-03		
Nagano General Rolling Stock Center	Feb-05		
Akita General Rolling Stock Center	Jul-05		

**Thorough management of chemical substances**

JR East is working to establish a system to prevent environmental accidents by more rigidly managing chemical substances. We prepared emergency response manuals for on-site locations such as our thermal power plant and General Rolling Stock Centers that handle chemical and hazardous substances. We are also preparing ourselves to properly respond to any contingencies by holding workshops and training sessions on how to handle such substances, and ensuring that related information reaches all related personnel.

**Environment-related incidents in the fiscal year ending March 2009:**

**(1) Soil contamination at the former Kamakura General Rolling Stock Center**

**【Outline】** After this center was closed in 2006, we conducted an soil survey in accordance with an ordinance of Kanagawa Prefecture. The result showed that a hazardous substance beyond base value was present in soil and groundwater at a specific location on the premises.

**【Measures】** An investigation of the adjacent area showed that there had been no impact from the contamination. At present, measures are being implemented to cover the area on the premises where soil is exposed, and to prevent the hazardous substance from drifting and contaminating groundwater.

**(2) Spillage of liquid waste at Oji Station**

**【Outline】** Drainage from the south exit of Oji Station was being routed to the Shakujii River through a Tokyo municipal sewer. A drain had been connected to this storm-water sewer when station improvement work was undertaken in 1966, but the reason for the connection is not known because no detailed records from that time could be found.

**【Measures】**

- ① Upon discovery of the fact, we responded immediately and rectified the problem, properly connecting the drain.
- ② When any drainage facility work is conducted, we follow the necessary procedures required by ordinances and regulations.