



Eco-Mind & Global Environmental Management

We work to cultivate an eco-mind establishing an environmental management system as the major leverage for it, according to our Guidelines and Commitments and our Environmental Conservation Action Guidelines.

Hitachi Kokusai Electric Action Guidelines for Environmental Conservation

[Purpose]

In order to realize an environmentally harmonious and sustainable society through products and services, Hitachi Kokusai Electric is committed to meeting its social responsibilities by promoting globally-applicable Monozukuri ("designing, manufacturing or repairing products"), which is aimed at reducing the environmental burdens of products throughout their entire life cycles, ensuring global environment conservation.

Introductory website of Action Guidelines for Environmental Conservation

Web

Home Page of Hitachi Kokusai Electric Inc.

<http://www.hitachi-kokusai.co.jp/global/csr/environment/earth.html>

OR

Hitachi Kokusai Electric Action Guidelines for Environmental Conservation

Search

ISO14001 integration among Group companies

In fiscal 1996, the Group started obtaining the certification of ISO14001 (environmental management system), and in fiscal 2011, we applied it to the head office, area operations, and sales offices, in addition to the manufacturing and service provision sites inside Japan.

In fiscal 2013, Hitachi Kokusai Yagi Solutions Inc. and Kokusai Electric Techno Service Co., Ltd., which are our Group companies, integrated their certificates and completed authentication in order to carry out environment activities more efficiently in a unified manner in the entire Group. For the integration, an external lecturer educated authorized internal auditors in each company in the same way, to secure competencies.

We will keep reducing environmental burdens through products and services, and continuously applying for the ISO14001 certification.

Targets and Results of Environment Activities in Fiscal 2013

The results and evaluation of the Environmental Action Plan in fiscal 2013 are as follows:

Category	Main item	Action goal	Index	Final year (fiscal 2015) targets	Fiscal 2013 targets	Fiscal 2013 results	Evaluation
Eco-Mind & Global Environmental Management	Establishment of Environmental Management System	Improvement in environmental activity level (GP: Green Point)	GP of GREEN 21-2015	640GP	512GP	547GP	🌳🌳🌳
	Nurturing of Environmental Literacy	Fostering environmental minds by environmental e-learning	Participation ratio	99%	98%	100%	🌳🌳🌳
Next-Generation Products & Services	Promotion of Eco-Products	Increasing Hitachi Eco-Products	Ratio of Eco-Product sales to total sales	95%	85%	90%	🌳🌳🌳
Super Eco-Factories & Offices	Preventing Global Warming	Improvement of Energy Use per Unit	Improvement rate of Energy Use per Unit (reference year 2005)	17%	7%	16%	🌳🌳🌳
	Energy Reduction during Transportation	Reduction of transportation energy per unit	Reduction rate (reference year 2005)	15%	13%	22%	🌳🌳🌳
	Effective Use of Resources	Improvement of waste and valuables generated per unit	Improvement rate (reference year 2005)	38%	17%	35%	🌳🌳🌳
Promotion of electronic manifest				Increase of registration (issuance) ratio	100%	80%	86%

Evaluation standard 🌳🌳🌳 Achieved 100% 🌳🌳 Achieved 80% or more 🌳 Achieved less than 80%

Fostering of an environmental mindset

In order to nurture an environmental mindset in the Group, we produced posters in each local language, and posted them in offices around the world.



Poster in fiscal 2013



Poster in fiscal 2014

Evaluation results of fiscal 2013 for "GREEN 21-2015"

The Hitachi Group implements "GREEN 21," a mechanism for self-evaluating its environmental activities in order to improve and upgrade the levels of such activities. GREEN 21 is a mechanism for classifying the areas of environmental activities into eight categories, evaluating the degree to which the targets of environmental activities were achieved and the contents of said activities, and visualizing the results in the form of radar charts.

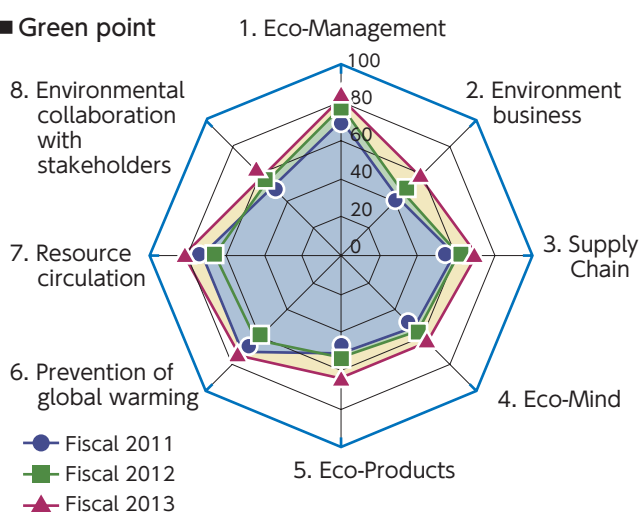
During the period from fiscal 2011 to 2015, we intend to add contributions to management by expanding environmental activities, preserving ecosystems, and conducting activities to collect and convey environmental information through the supply chain as pertaining to the evaluation items, and make efforts to raise the level of such activities, as "GREEN 21-2015."

In achieving the target, our result for fiscal 2013 was 547GP as compared to 512GP; the target common to Hitachi Group companies. Especially, we achieved the goal of curbing CO₂ emissions, and our environment business was highly evaluated.

GREEN 21 evaluation items

	Category	Main Evaluation Indicators
1	Eco-Management	Environmental control, Environmental accounting, Observance of laws and regulations
2	Environment business	Reduction of annual CO ₂ emissions by 100M tons, Environment business strategy
3	Supply Chain	Collection and provision of environmental information through supply chain
4	Eco-Mind	Environmental education, Fostering of environmental expert
5	Eco-Products	Assessment of products and services
6	Prevention of global warming	Reduction of CO ₂ emissions, Energy-saving effort, Energy-saving in mobility
7	Resource circulation	Resource recycling, Control of chemical substances
8	Environmental collaboration with stakeholders	Information disclosure, Communications, Activities of global citizens, Ecosystem conservation

Green point



Environmental Accounting

According to the Environmental Accounting Guidelines specified by the Ministry of the Environment, our environmental conservation cost was defined as investments and expenses related to environment. The environmental conservation effects were determined based on profits from the sales of recycled items, expenditure reduction due to investments in energy-saving equipment, etc. We will continue to improve the return on investment.

Environmental conservation cost

Expenses (in millions of yen)

Item	FY 2011	FY 2012	FY 2013	Overview
Business area costs	204.4	187.9	141.7	Costs of maintenance of equipment with low environmental burden, depreciation, etc.
Upstream/downstream costs	0.1	0.3	0	Costs for greenprocurement and recycling
Management activity costs	43.8	51.5	68.0	Personnel expenditures for environmental management, maintenance costs for environmental management system
Research and development costs	215.6	216.5	205.4	R&D for the reduction of environmental burden caused by products and production processes, product design expenses
Social activity costs	1.9	1.5	1.0	Environmental improvements such as afforestation and beautification, PR, and publicity expenses
Environmental damage costs	0	0	0	Environment-related measures, contributions, and levies
Total	465.9	457.7	416.1	—

Investments (in millions of yen)

Item	FY 2011	FY 2012	FY 2013	Overview
Investments in environmental conservation	57.4	20.4	131.1	Direct investments in environmental load reduction facilities such as energy conservation facilities

Economic effects of environmental conservation

Economic effects (in millions of yen)

項目	2011年度	2012年度	2013年度	主な内容
Net income effects	9.7	9.0	12.7	Profit on sale of recycled waste, etc.
Expenditure reduction	10.3	0.6	4.9	Cost-saving effects, etc. by saving energy
Total	20.0	9.6	17.6	—

The Company participates in the Hitachi Group's environmental working-level conference in Brazil

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The Hitachi Group holds environmental working-level conferences lead by four axes of America, Europe, Asia, and China with the purpose of strengthening environmental governance in overseas operations.

In July 2013, the Hitachi Group companies in Brazil got together and held the first environmental working-level conference in Brazil. From the Group, Hitachi Kokusai Linear Equipamentos Eletrônicos S/A has participated in this conference.

In Rio de Janeiro in 1992, the United Nations Conference on Environment and Development (Earth Summit) was held, adopting "Rio Declaration on Environment and Development" and "Agenda 21," which is the action plan for actualizing the Rio Declaration. In addition, the Framework Convention on Climate Change and the Convention on Biological Diversity were signed. These were the incidents which have significantly influenced the way of thinking about the protection of today's earth environment and sustainable development.

At that conference, we shared a variety of information regarding the difficulty of Brazilian legal systems, taxes, climates, etc.

The Company will continue support for improving environmental governance in overseas Group companies.



Environmental working-level staff of the Hitachi Group in Brazil