

# 3 Fiscal 2003 Environmental Activity Records

## 1 Promotion of environmental management\* in the Kyushu Electric Power Group\*

### Conformity with laws and regulations

The Kyushu Electric Power Group\* seeks to ensure appropriate operation and management of controlled environmental load\* substances\* in compliance with the relevant laws and regulations.

#### ◇PRTR System\*

The Kyushu Electric Power Group\* conducts investigation and data collection of released and transferred amounts of specific chemical substances and voluntarily discloses the results.

#### ■PRTR investigation results (FY2003)

(Unit: kg)

Index No.	Chemical substances	Major application	Company	Amount handled	Amount released into the environment				Amount transferred	FY2002 records (reference)		
					Air	Water	Soil	Landfill		Amount handled	Amount released	Amount transferred
1	Water-soluble zinc compounds*	Hot dip galvanizing	Nishi Nihon Denki Tekkou Co., Ltd.	1,405	72	0	0	0	73,003	1,280	72	88,995
40	Ethyl benzene*	Coating	Kyushu Meter & Relay Engineering Corp.	1,087	1,087	0	0	0	0	1,453	1,453	0
43	Ethylene glycol*	Coolant	Nishinippon Environmental Energy Co., Inc.	4,992	4,992	0	0	0	0	6,263	6,263	0
63	Xylene*	Coating	Kyushu Meter & Relay Engineering Corp.	5,171	5,171	0	0	0	0	5,413	5,413	0
			KYUHEN Co., Inc.	1,700	1,700	0	0	0	0	2,300	2,300	0
144	Dichloropentafluoropropane*	Parts cleaning	Kyushu Meter & Relay Engineering Corp.	2,475	2,475	0	0	0	0	—	—	—
227	Toluene*	Coating	Kyushu Meter & Relay Engineering Corp.	4,289	4,289	0	0	0	0	5,698	5,698	0
230	Lead and its compounds*	Hot dip galvanizing	Nishi Nihon Denki Tekkou Co., Ltd.	3,942	0	0	0	0	88	4,480	46	27
		Soldering	Nishimu Electronics Industries Co., Ltd.	—	—	—	—	—	—	1,600	0	1,600
311	Manganese and its compounds*	Welding	KYUHEN Co., Inc.	1,000	0	0	0	0	60	—	—	—

\*The above data was provided by 26 initial members of the Group Environmental Management Promotion Subcommittee. \*Substances handled weighing one ton or more annually are listed above.

#### ◇PCB\* (polychlorinated biphenyl)

PCB\* stored in Kyushu Electric Power Group\* are kept at special storehouses under strict control. The Group plans to render it harmless by the 2016 deadline, according to the Law concerning Special Measures against PCB\* Waste (effective from July 2001).

#### ■PCB storage status (FY2003)

Equipment using PCB	Amount	Management status	Companies possessing PCB	Amount in FY2002 (reference)
Transformer	57 units	11 units in use; 46 units stored under strict control	Kyudenko Co., Inc.; TOBATA CO-OPERATIVE THERMAL POWER COMPANY, INC.; Oita Co-operative Thermal Power Company, Inc.; DENKI BLDG. CO., LTD.	46 units
Capacitor	94 units	2 units in use; 92 units stored under strict control	Nishinippon Plant Engineering and Construction Co., Ltd.; Kyuden Sangyo Co., Ltd.; Kyushu Rinsan Co., Inc.; Kyudenko Co., Inc.; KYUKI CORPORATION; Kyushu Meter & Relay Engineering Corp.; Koyo Denki Kogyo Co., Ltd.; KYUHEN Co., Inc.; Kyushu Koatsu Concrete Industries Co., Ltd.; Nishi Nihon Denki Tekkou Co., Ltd.; TOBATA CO-OPERATIVE THERMAL POWER COMPANY, INC.; Oita Co-operative Thermal Power Company, Inc.; Nishimu Electronics Industries Co., Ltd.; DENKI BLDG. CO., LTD. Kyushu Highlands Development Co., Ltd.	93 units
Stabilizer	531 units	All units stored under strict control	Nishinippon Plant Engineering and Construction Co., Ltd.; Kyuden Sangyo Co., Ltd.; Kyudenko Co., Inc.; TOBATA CO-OPERATIVE THERMAL POWER COMPANY, INC.; Oita Co-operative Thermal Power Company, Inc.; DENKI BLDG. CO., LTD.	493 units
Others	1 unit, 369ℓ, 27 kg	1 unit in use; 369ℓ, 27kg stored under strict control	Kyuden Sangyo Co., Ltd.; Kyudenko Co., Inc.; Oita Co-operative Thermal Power Company, Inc.; DENKI BLDG. CO., LTD.	1 unit, 369ℓ, 27kg

\*The above data was provided by 26 initial members of the Group Environmental Management Promotion Subcommittee.

#### ◇SOx\* and NOx\*

The Kyushu Electric Power Group signed the environment conservation agreements with local governments and works to comply with the agreement accordingly.

#### ■SOx and NOx emissions from power generating facilities (FY2003)

Name of companies and unit	Installed capacity [MW]	Fuel used	Records				Agreement with local governments		FY2002 records (reference)		
			SOx(ppm)		NOx(ppm)		SOx (ppm)	NOx (ppm)	SOx (ppm)	NOx (ppm)	
			Max.	Mean	Max.	Mean					Max.
Tobata Co-operative Thermal Power Company, Inc.	Unit 2	156	Mostly coal	22	10	36	15	25	40	Not measured because emissions were 10m <sup>3</sup> /h or less	89
	Unit 3	250	Mostly LNG	Not measured because emissions were 10m <sup>3</sup> /h or less		76	57	34	80		73
	Unit 4	375	Mostly LNG	Not measured because emissions were 10m <sup>3</sup> /h or less		18	14	38	19		17
Oita Co-operative Thermal Power Company, Inc.	Unit 1	253	Mostly byproduct gas	292	47	179	42	326	180	299	163
	Unit 2	253	Mostly byproduct gas	300	49	179	41	326	180	301	172

\*The records are the maximum (Max.) and mean values for the year. \*The Air Pollution Control Law\* does not require measurement of SOx emissions of 10m<sup>3</sup>/h or less.

\*The Unit Two of TOBATA CO-OPERATIVE THERMAL POWER CO., INC. implemented the fuel conversion in fiscal 2003.

## ◇ Freons\* and Halons\*

The Kyushu Electric Power Group\* ensures the recovery of Freons and Halons during repairs and inspections of equipment that uses them, thus minimizing their emissions into the air.

### ■ Freons and Halons emissions (FY2003)

(Unit: ton)

Type	Main use	Amount contained	Consumption	Companies handling them	FY2002 records (reference)	
					Amount contained	Consumption
Specific Freons*	Air conditioning, refrigeration	8.1	0.0	Nishinippon Environmental Energy Co., Inc.; DENKI BLDG. CO., LTD.	4.3	0
Alternative Freons*	Air conditioning, refrigeration, parts cleansing	46.0	4.1	Nishinippon Plant Engineering and Construction Co., Ltd.; Kyuden Sangyo Co., Ltd.; Kyushu Rinsan Co., Inc.; Kyudenko Co., Inc.; Kyuken Co., Ltd.; Nishigi Kogyo Co., Inc.; KYUKI CORPORATION; NISHI NIPPON AIRLINES CO., LTD; Kyushu Meter & Relay Engineering Corp.; Koyo Denki Kogyo Co., Ltd.; KYUHEN Co., Inc.; Kyushu Koatsu Concrete Industries Co., Ltd.; SEISHIN Corporation; Nishi Nihon Denki Tekkou Co., Ltd.; TOBATA CO-OPERATIVE THERMAL POWER COMPANY, INC.; Oita Co-operative Thermal Power Company, Inc.; Oita Liquefied Natural Gas Co., Inc.; Nishinippon Environmental Energy Co., Inc.; KITAKYUSHU LIQUEFIED NATURAL GAS CO., INC.; Nishimu Electronics Industries Co., Ltd.; DENKI BLDG. CO., LTD.; Shinrintoshi Co., Ltd.	41.1	4.3
Halons	Fire fighting	5.2	0	Kyudenko Co., Inc. TOBATA CO-OPERATIVE THERMAL POWER COMPANY, INC.; Oita Co-operative Thermal Power Company, Inc.; Oita Liquefied Natural Gas Co., Inc.; Nishinippon Environmental Energy Co., Inc.; DENKI BLDG. CO., LTD.	5.1	0

\*The above data was provided by 26 initial members of the Group Environmental Management Promotion Subcommittee. Data of some companies is not included.

\*Specific Chlororfluorocarbon (Freons): CFC11 \*Hydrochlorofluorocarbon (Alternative Freons): HCFC22, HCFC123, HCFC225 \*Halons: Halon 1211, Halon1301

## Better management of environmental targets

The Kyushu Electric Power Group\* continues to set targets regularly to reduce environmental load\*.

## ◇ Achievement in reduction of environmental load\*

In addition to compliance with laws and regulations, the Kyushu Electric Power Group\* tracks and controls the records of environmental load\*, including the volume of electricity reduction at offices and the recycling rate\* of used paper\*. Since fiscal 2002, the company has been establishing environmental data collection methods by category, setting targets selectively for attainable target categories in each group company, and promoting the reduction of environmental load\*.

### ■ Kyushu Electric Power Group's environmental load (FY2003)

Items	FY2003 records		FY2002 records (reference)		
	No. of companies that provided the data	Actual amount	No. of companies that provided the data	Actual amount	
Power consumption at offices	31	31,502,474 kWh ( 31,131,447 kWh )	20	30,610,750	
Power consumption at plants	21	140,430,611 kWh ( 114,558,699 kWh )	14	115,976,028	
In-house power consumption at power stations	3	338,078,534 kWh ( 332,409,734 kWh )	2	337,586,176	
Water consumption at offices	15	186,600 m <sup>3</sup>	15	186,258	
Industrial water consumption	14	644,174 m <sup>3</sup> ( 543,175 m <sup>3</sup> )	11	515,829	
Fuel consumption for heating	12	375 kl ( 53 kl )	7	64	
Fuel consumption for vehicles	22	2,587 kl ( 2,501 kl )	19	2,476	
Used paper	25	Amount used	19	807 tons ( 758 tons )	675
		Recycling rate		56 % ( 55 % )	48
Copy paper	26	Amount used	26	91,197,606 sheets	84,247,017
		Rate of recycled paper use		72 %	60
Toilet tissue	18	Amount used	16	137,928 rolls ( 135,928 rolls )	134,968
		Rate of recycled paper use		93 % ( 92 % )	86
Industrial waste	23	Amount	21	38,202 tons ( 38,083 tons )	40,203
		Recycling rate		77 % ( 77 % )	73

\*The above data was provided by 40 group companies which are the members of the Group Environmental Management Promotion Subcommittee (from 26 initial members for FY2002 data). Data of some companies is not included.

\*Records in parentheses were provided by those companies that submitted the information for the FY2002 records only.

\*As for the power consumption at offices and plants and in-house power consumption\*, the figures for FY2002 have been converted by the new calculation method applied in FY2003.

\*As for the water consumption at offices and industrial water consumption, the figures for FY2002 have been converted by the new calculation method applied in FY2003.

## ◇ Kyushu Electric Power Group\*'s unified targets

Since fiscal 2003, the Kyushu Electric Power Group\* has been endeavoring to reduce environmental load\* by setting unified targets for the Group.

In fiscal 2003, the group companies that were capable or qualified to participate in this project attempted to fulfil the Group's unified targets.

Unified targets for fiscal 2004 are basically almost the same as the ones defined for fiscal 2003.

### ■ Kyushu Electric Power Group's unified targets for fiscal 2003

Item [Target]	Specific measures	Performance
Emissions of regulated Freons** [Zero Emission]	<ul style="list-style-type: none"> <li>To use alternative equipment that does not use Freons subject to regulations when renewed</li> <li>To ensure the recovery of Freons during inspections and repairs</li> </ul>	Emitted amount 4.1 tons
SF <sub>6</sub> * gas collection rate [97% or more]	<ul style="list-style-type: none"> <li>To ensure the use of a SF<sub>6</sub> gas collector during equipment inspection</li> </ul>	Collection rate 98%
Power consumption at offices [1% year-by-year reduction]	<ul style="list-style-type: none"> <li>Annual reduction of 1% from the figure achieved in fiscal 2002 as the base rate</li> <li>.3% reduction from the base rate by fiscal 2005</li> </ul>	1.7% increase from the previous year* <sup>1</sup>
Used paper* recycling rate* [100%]	<ul style="list-style-type: none"> <li>To sort and collect used paper to recycle all of it</li> </ul>	Recycling rate 56%
Rate of recycled copy paper use* [Rate of recycled paper use 100%]	<ul style="list-style-type: none"> <li>To achieve 100% recycled paper use through green procurement*</li> </ul>	Rate of recycled copy paper use 72%
Rate of recycled toilet tissue use* [Rate of recycled toilet tissue use 100%]	<ul style="list-style-type: none"> <li>To achieve 100% recycled paper use through green procurement*</li> </ul>	Rate of recycled paper use 93%

\*1: The item (unified target) for fiscal 2004 will be the complete collection of all regulated Freons leaked at the inspection of machines and equipment. The other items for fiscal 2004 will be the same as fiscal 2003.

\*2: In fiscal 2003, a data calculation method for the item was changed, so the same data for fiscal 2002 was recalculated using the method for fiscal 2003 for comparison purposes.

## ◇ Environmental target management plan for fiscal 2004

In fiscal 2004, the Kyushu Electric Power Group\* will expand the introduction of the Group unified targets to more group companies and launch measures to enhance an achievement rate related to the Group's unified targets.

The Group will also encourage each group company to grasp their actual and accurate environmental load\*.

## Establishing environmental management framework

The Kyushu Electric Power Group\* is taking steady steps to build an environmental management framework by implementing EMS\* (Environmental Management System) at each group company, formulating guidelines for environmental activities and introducing environmental accounting.

## ◇ Implementation of environmental management system at each group company

In order to promote an environmental management\* company-wide, the Kyushu Electric Power Group\* prepared unified standards for the Environmental Management System (EMS\*) called the Kyushu Electric Power Group\* Standards for the Implementation of EMS\* in April 2003. These Standards deal with several implementing stages of EMS so that each group company can introduce EMS on a stage-by-stage basis.

(For details, please visit Kyushu Electric Power Company's Website:  
<http://www.kyuden.co.jp/company/kigyo/kankyo/ems/index.html>)

In fiscal 2003, all 26 group companies which had been involved in the Group's unified targets from the beginning completed the introduction of the first stage of Kyushu Electric Power Group's Standards for the Implementation of EMS\*, intending to get ready for the implementation of the PDCA Cycle\* for environmental activities. Moreover, 6 group companies acquired ISO14001\* certification and a group company completed the implementation of an ISO-based system\* at their initiative in fiscal 2003.

In fiscal 2004, each group company will aim to constantly pursue environmental activities through the effective use of the EMS\* implemented. Also, in line with their actual circumstances, group companies will be urged to consider the introduction of the second or higher stage of the Standards for the Implementation of EMS\* and/or design and execute the related actual plans in order to strengthen the environmental activities within the Group.

### ■ Acquisition of ISO14001 certification and implementation of ISO-based system

	Company	Date	Level Certified/ Implemented
ISO14001 certification acquired	Kyudenko Corporation	Dec. 1999	Head Office only
	Nishinippon Environmental Energy Co., Inc.	Oct. 2000	Company-wide
	Kyuden Sangyo Co., Inc.	Dec. 2002	Environment Dept. only
	Kyuki Corporation	Mar. 2003	Company-wide
	Kyushu Environmental Management Corporation	Sep. 2003	Company-wide
	Seishin Corporation	Jan. 2004	Head Office only
ISO-based system implemented	Oita Liquefied Natural Gas Co., Inc.	Dec. 2003	Company-wide

## ■ Environmental activities by companies with ISO14001\* certification and an ISO-based system\*

### Kyuden Sangyo Co., Inc.

#### Responding to social trust through pursuing environmental activities

Kyuden Sangyo Co., Inc. supports Kyushu Electric Power in various areas including the operation of power stations' environment-related equipment and facilities, the sale of coal ash\* and gypsum\* produced at thermal power stations and a variety of insurance policies such as equipment insurance policies and the operation of Kyushu Electric Power's PR facilities. Its management style puts focus on being conscious of the environment in many ways. As part of their involvement in the environment, the Environment Department acquired an ISO14001\* certification at an early stage, and also, the

company's thermal power offices support Kyushu Electric Power's power stations in operating EMS\*. With respect to company-wide activities, the company formed the Environmental Committee in June 2002. The company launched their own environmental philosophy and policy in February 2004. The introduction of the first stage of the Kyushu Electric Power Group's EMS\* was completed on a company-wide basis. With respect to environmental education\* of its employees, the company held an environment seminar for chiefs and managers from all offices and power stations who gathered for a meeting in April 2004. As such, the company has been devoted to educating its employees by providing the chance of learning about environment conservation.

#### Major environmental activities

- |  |  |
|--|--|
| ☆Reduction in power consumption at offices [1% year-by-year reduction]       | ☆Encouraging the green procurement* for office supplies  |
| ☆Reduction in copy paper use   | ☆Active involvement in forestation                       |
| ☆Digitalization of documents including internal documents and rules/policies | ☆Provision of environment-related education and seminars |
| ☆Recycling of used paper* [targeted recycling rate*:100%]                    |  |

### Kyushu Environmental Management Corp.

#### Promoting environmental conservation by building a recycling-oriented society\*

In the so-called "century of environment," environmental load\* related to wastes is recognized as a serious social problem. In particular, waste incineration causes CO<sub>2</sub> and dioxin\* emissions.

The company engages in used paper recycling business. Under their recycling system,

used paper including confidential documents that used to be burnt in the past is now collected, shredded, compressed and dissolved (by contractors) in order to produce recycled paper for sale.

Attempting to expand the collection of waste and sales/distribution of recycled products through environmental activities, the company was sincerely devoted to preventing air pollution\*, exhaustion of resources and excessive loggings, and successfully acquired ISO14001\* certification in all segments of operations in September 2003.

#### Major environmental activities

- |  |
|--|
| ☆Prevention of incineration of used paper by collecting and recycling more amount of used paper including confidential office documents* |
| ☆Prevention of excessive loggings through the sale of recycled paper products (copy paper and toilet tissue)                             |
| ☆Reduction in waste by sorting used paper* by quality and/or texture (Waste, if not sorted and resources, if sorted.)                    |

### Seishin Corporation

#### Acquisition of ISO14001\* certification by the headquarters

Seishin Corporation recognizes that managing the adverse effect on the environment is a crucial management issue for a business entity. Under this corporate policy, the company introduced an environmental management system\* aiming to obtain greater social trust and reliability and in the end, enhance its corporate value. In January 2004, ISO14001\* certification was successfully acquired.

Following that, the company compiled an operating manual by combining the quality management

manual for ISO9001\* standards, which had been acquired in the past, and an environment management manual for ISO14001\* standards. The operating manual has enabled employees to pay more attention to improving the quality of products and the working environment on a daily basis.

In addition, an environment management policy was established in September 2003 in accordance with ISO standards, and unified targets were designated for all group companies. Based on the environment management policy, all group companies and operating offices have attempted to reduce industrial wastes\*, copy paper use and electricity consumption at offices and improve company cars' fuel economy and sales of eco-friendly and recycled products. By doing so, the company has succeeded in upgrading the environmental activities with an aim to realizing the construction of a recycling -based society\*.

#### Uniformed environmental targets

- |   |   |
|---|---|
| Targets for FY2005 based on the performance achieved in FY2002. | ☆Reduction of industrial waste* [3% reduction from FY2002]  |
|   | ☆Improvement of company cars' fuel economy [5% increase from FY2002]                                      |
|   | ☆Reduction in electricity consumption [5% reduction from FY2002]  |
| Targets for FY2004  | ☆Reduction of paper purchase [5% reduction from FY2002]   |
|   | ☆Increased sale of eco-friendly and recycled products [equivalent to 2% of group's projected annual sale] |

### Oita Liquefied Natural Gas Co., Inc.

#### Aspiring to make the society and the global environment even more comfortable

Oita Liquefied Natural Gas Co., Inc. desires to maintain a stable supply of natural gas as clean energy and also contribute to the development of local communities and make the society and the global environment even more comfortable through promoting environmental conservation and recycling of waste.

The company decided to implement an environment management system in accordance with ISO14001\* standards with the aim of pursuing continuous and efficient environmental conservation

activities, and organized a committee responsible for the introduction of the system.

In December 2003, the operation of the environment management system started. Employees' motivation and awareness gradually increased during the course of the introduction of the system. As a result, consumption of electricity and water decreased at the offices, copied paper was recycled at a 100% recycle rate\* and My Cup\* campaign was successfully accepted at workplaces. The company will continue to sell LNG\* (liquefied natural gas\*) to their customers emphasizing the nature or characteristics of LNG, an eco-friendly product, and will work hard to save energy and resources.



#### Goals for the current year

- |  |   |
|--|---|
| ☆Reduction of power consumption at factories [1% reduction in unit energy consumption from the previous fiscal year] | ☆Recognition of the actual status of waste recycling and establishment of measures to promote the recycling of wastes |
| ☆Reduction of power consumption at offices [1% reduction from the previous fiscal year]                              | ☆Reduction of greenhouse gas emitted during the time of equipment maintenance   |
| ☆Reduction of copy paper use [1% reduction from the previous fiscal year]  | ☆Planning for reducing the number of Halons* fire extinguishers held by the company                                   |

## ◆ Establishment of Guidelines for Environmental Activities

The Kyushu Electric Power Group\* formulated Guidelines for Environmental Activities in fiscal 2003 to strengthen environment management\* within the Group. These guidelines summarize environmental activities and directives, based on which group companies are required to expedite their environmental activities. Summary of the Guidelines is given in the chart below.

### ■ Guidelines for Environmental Activities

Description of Guideline	Summary of Guideline	Date of Formulation
Guideline for wastes management	Directives for wastes management and activities for the proper disposal and recycling of wastes	November 2003
Guideline for PRTR Law*	Directives for handling and control of substances regulated by PRTR Law*	December 2003
Guideline for green procurement*	Green procurement* policy intended to accelerate the purchase of green products, and directives for the purchase and selection of green products	December 2003
Guideline for countermeasures against soil pollution	Directives for countermeasures against soil pollution related to company-owned land and land for sale/purchase	February 2004

In order to comply with applicable laws or regulations on a company-wide basis and accelerate environment activities, all of the group companies covered by the Guidelines are scheduled to establish their own policy based on the Guidelines. Environmental activities will be enthusiastically pursued in accordance with such new policy during fiscal 2004.

## ◆ Introduction of environmental accounting\*

Kyushu Electric Power introduced environmental accounting\* in fiscal 2000. Since then, the company has disclosed environmental results and performance in the Environment Action Report every year. The Kyushu Electric Power Group\* formulated Environmental Accounting Standards for the Kyushu Electric Power Group\* in November 2003 based on Kyushu Electric Power's Calculation Standards for Environmental Activity Costs\*. Based on the Environmental Accounting Standards for the Kyushu Electric Power Group\*, environmental activity costs\* incurred by 40 group companies in fiscal 2003 were collected and accounted for.

In fiscal 2004, each group company will be required to gain a deeper understanding of environmental accounting and upgrade the completeness of environmental activity costs\*.

### ■ Kyushu Electric Power Group's environmental activity costs (FY2003)

(Unit: million yen)

Activity areas		Main activities	Environmental activity costs*		FY2002 records (for reference)	
			Investments	Expenses	Investments	Expenses
Global environmental conservation	Global warming* prevention	Thermal efficiency* improvement, introduction and support for new energy* facilities, energy conservation (including low-pollution vehicles*) and SF <sub>6</sub> * emission control	8.7	24.3	255.5	6.8
	Ozone layer* protection	Measures for Freons* and Halons* recovery	1.2	9.8	0.1	10.5
Local environment conservation	Air pollution prevention	Flue gas* treatment (desulfurization*, denitration*, particulate reduction equipment*) and use of fuel with low sulphur content	1,146.6	118.0	0.9	80.0
	Water pollution prevention	Wastewater treatment, measures against oil leaks	245.1	61.6	2.9	91.8
	Noise and vibration prevention	Measures against noise and vibration at facilities	0	4.3	0	0.9
Resource recycling	Industrial waste*	Reduction and recycling of industrial waste*	0	29.1	0	36.3
		Disposal of industrial waste* and PCB* storage	33.0	247.2	22.0	91.3
	General waste*	Reduction and recycling of general waste*	0.2	17.7	0	13.9
Disposal of general waste*		0	76.0	0	63.9	
Green procurement*		Additional cost incurred by green procurement*	0	0.7	0	0.2
Environmental activity management	Planning for environmental activities	Expenses of environment-related license acquisition, education and training, and for personnel	0	43.3	0	47.5
	Introduction and maintenance of EMS*	Formulation, implementation and maintenance of EMS (ISO14001*, ISO-based system*)	0	31.4	0	32.1
	Environment load* measurement and monitoring	Monitoring and measurement of substances having environmental load*	0	38.5	0	10.6
Environment-related research	Environmental conservation	Effective use of waste	1.2	6.8	0	40.5
Social activities	Greening of sites	Greening of company owned land and facilities, and its maintenance and management	8.4	67.1	0	70.5
	Maintaining quality townscapes and surroundings	Measures to keep buildings in harmony with the landscape of their surrounding environment	0	0	0	0
	Environment Month* and others	Environment Month*, planting activities	0	0.5	0	0.1
	Supporting local environmental activities	Support for local environmental activities and environmental organizations*	0	0.4	0	0.7
	Environmental information disclosure	Creation of websites related to the environment	0	0.2	0	0.1
Penalty for environmental damages		Pollution load levy* set by Law concerning Pollution-related Health Damage Compensation and Other Measures*	0	198.4	0	235.8
Total			1,444.4	975.3	281.4	833.5

\*Costs available for trial calculation only are collected.

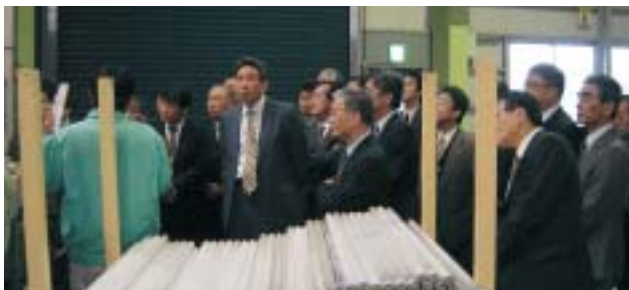
\*Data for FY2002 was collected from 26 group companies that had been initially involved in the deliberation of the Group's unified targets as members of the Group Environmental Management Promotion Subcommittee. Data for FY2003 was collected from 40 group companies including 14 new members.

## 2 Establishing recycling-based society

### Encouraging recycling

Kyushu Electric Power is active in recycling used paper\* including confidential documents\* and used fluorescent tubes in cooperation with Kyushu Environmental Management Corporation and Japan Recycling Light Technology & System.

In fiscal 2003, members from the Group Environmental Management Promotion Subcommittee were given a chance to learn about the recycling operations of the Kyushu Environmental Management Corporation and Japan Recycling Light Technology & System. Also, the members visited Japan Recycling Light Technology & System's factories to see how the recycling of used paper including confidential documents\* and used fluorescent tubes was completed and apply the acquired knowledge to their own environmental activities.



Study tour to Japan Recycling Light Technology & System's factory (November 27th, 2003)

### Promoting green procurement\*

With respect to office supplies or other items used in workplaces, almost all the 26 initial group companies, which have been involved in the unified target program from the beginning, practice to purchase green consumer goods if the costs are almost the same as regular ones. About half of the 14 group companies which joined the program started practicing the principle in fiscal 2003.

With respect to items not covered by the principle, the 40 group companies are encouraged to expand the green procurement\* to such items in consideration of their needs or requirements. In December 2003, Guidelines for Green Procurement\* were compiled based on Kyushu Electric Power's Green Procurement\* Plan in order to give group companies directions.

In fiscal 2004, each group company is expected to prepare their own detailed directives for green procurement\*, and the Kyushu Electric Power Group\* will strive to pursue the green procurement\* actively with the collective and concerted efforts of group companies.

## 3 Environmental activities in cooperation with local communities

### Participation in Kyushu Homeland Forestation Program

In fiscal 2003, 866 people from 26 group companies participated in the Kyushu Homeland Forestation Program supported by Kyushu Electric Power to plant trees together with people from local communities.

### Environmental education\*

In fiscal 2003, company-wide programs such as joint seminars, lectures and study tours to environmentally advanced model entities were introduced as part of Kyushu Electric Power Group\*'s environmental education, which is expected to increase the environmental activity level of the Kyushu Electric Power Group\*. The same programs will be launched in following years.

#### ◇ Joint seminars

Taking into consideration the introduction of EMS\* by group companies in fiscal 2003, joint seminars were planned for the members of the Group Environmental Management Promotion Subcommittee. They studied the details of ISO14001\* including the summary of ISO1400\* standards, the background of the establishment of ISO14001\* standards and requirements for ISO14001\* standards.

#### ◇ Lectures

Kyushu Electric Power held a lecture in June during Environment Month\* with 54 attendants from 28 group companies. Also, four group companies independently held a lecture with the topics: "Efforts for Environmental Management\*" at the Kyushu Electric Power Group\*" and "Introduction of EMS\*" inviting speakers from the Environmental Affairs Department of Kyushu Electric Power. Approximately 190 people attended the lectures.



Lecture held by Tobata Co-operative Thermal Power Co., Inc. on October 24, 2003

#### ◇ Study tour to an environmentally advanced model entity

36 members (from 34 group companies) from the Group Environmental Management Promotion Subcommittee visited Ricoh Keiki Co., Ltd. in Saga Prefecture and learned about efforts and measures taken by the company to succeed in the awarding of ISO14001\* certification and zero emissions\*, focusing on their actual practices and experiences.

## 4 Active disclosure of environmental information

### Sharing environmental information among group companies

A survey was conducted at each group company to research employees' needs for environmental information based on the conception that environmental information should be shared within the Kyushu Electric Power Group. In line with the survey results, environmental information was disclosed on the Group's homepage in February 2004 using the Kyushu Electric Power Group\* information network. Now, all employees from group companies can access environmental information.

In fiscal 2004, the Kyushu Electric Power Group\* will discuss the optimized use of environmental information to stimulate environmental activities using the environmental information.