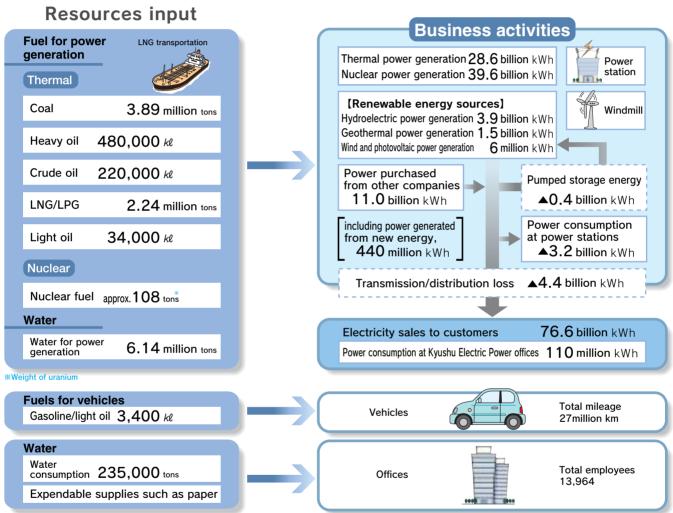
2 Environmental Accounting

Kyushu Electric Power introduced environmental accounting in Fiscal 2000. The costs and benefits of environmental activities are taken into account in decision making regarding environmental activity deployment, and are disclosed to the public. For Fiscal 2002, changes made during the year are also listed to help in the understanding of the status of the company's activities in addition to the calculation of costs and benefits.

1 Business activities, environmental activity benefits and environmental load



[Ref.: Records for FY 2001]

■ Resource input

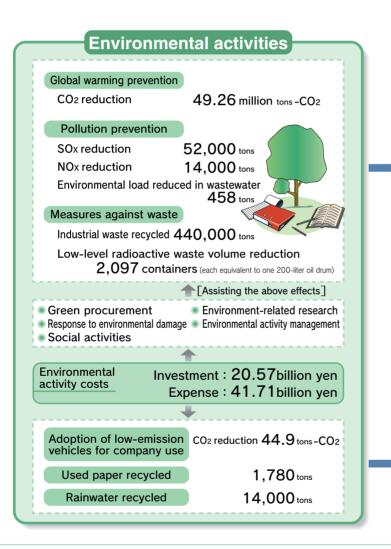
Coal	4.09 million tons
Heavy oil	490,000 kℓ
Crude oil	220,000 kl
LNG/LPG	2.55 million tons
Light oil	30,000 kl
Nuclear fuel	Approx.102 tons [®]
Water for power generation	6.5 million tons
Fuels for vehicles	4,000 kl
Water consumption	_

*Weight of uranium

Business activities

- Duomicoo dottvitico	
Thermal power generation	30.9 billion kWh
Nuclear power generation	36.7 billion kWh
Hydroelectric power generation	3.6 billion kWh
Geothermal power generation	1.5 billion kWh
Wind and photovoltaic power generation	3 million kWh
Power purchased from other companies	10.5 billion kWh
including power generated from new energy	0.39 billion kWh
Pumped storage energy	▲0.4 billion kWh
Power consumption at power stations	▲3.3 billion kWh
Transmission/distribution loss	▲4.2 billion kWh
Electricity sales to customers	75.3 billion kWh
Power consumption at Kyushu Electric Power offices	110 million kWh
Total mileage (vehicles)	29 million km
Total employees	14,191

For efficient, effective environmental activity deployment, the environmental accounting system must evolve as a tool for promoting environmental management. It must enable quantitative understanding of the environmental load caused by business activities, the costs and benefits of the environmental activities, as well as a thorough analysis that includes consideration of their relation to business activities. See Related Information P46 F for a detailed view of the environmental accounting system and its use.



Environmental load

CO2 emissions 25.7 million tons -CO2

SOx emissions 17,000 tons

NOx emissions 31,000 tons

Wastewater 2.66 million tons (including 40 tons of load and 6 tons of COD)

Industrial waste disposed 156,000 tons

Low-level radioactive waste 166 containers (each equivalent to one 200-liter oil drum)

CO2 emissions 8.000 tons -CO2

Used paper disposed 1 ton

Clean water consumed 221,000 tons

CO2 reduction	47.96 million tons-CO2
SO _x reduction	51,000 tons
NO _x reduction	14,000 tons
Environmental load reduced in wastewater	538 tons
Industrial waste recycled	460,000 tons
Low-level radioactive waste volume reduction	1,629 containers*
Adoption of low-emission vehicles for company use	14.5 tons-CO ₂
Used paper recycled	895 tons
Rainwater used	_

Each equivalent to one 200-liter oil drum

■ Environmental activities

■ Environmental activity costs

— ,,			
Investment	23.27 billion yen		
Costs	40.54 billion yen		

■ Environmental load						
CO ₂ emissions	2,660 tons-CO2					
SO _x emissions	16,000 tons					
NO _x emissions	31,000 tons					
Waste water Load COD	3.26 million tons 81 tons 8 tons					
Industrial waste disposed	157,000 tons					
Low-level radioactive waste	2,155 containers*					
CO ₂ emissions (vehicle)	10,000 tons-CO ₂					
Used paper disposed	Approx.900 ton					
Clean water consumed	_					
WE all a male land to a man 2000 Plant all allows						

***Each equivalent to one 200-liter oil drum**

2 Change in environmental activity costs (Record for FY2001 and 2002)

Unit: 100 million yen (except for those specially indicated)

l F		Unit: 100 million yen (except		,		
			2001		2002	
Environr	mental activity category	Main activities	IInvestment	Cost	IInvestment	Cost
Global environment preservation	Global warming prevention	Installation of power sources with low CO ₂ emissions, thermal efficiency improvement at thermal power stations, introduction and support for new energy equipment, contribution to World Bank Prototype Carbon Fund, energy saving (including low-emission vehicles) and SF ₆ emission control	6.0	44.3	6.0	49.3
	Ozone layer protection	Measures for Freon and Halon recovery	0.0	0.4	0.0	0.1
Local natural	Air pollution prevention	Flue gas treatment (desulfurization, denitrification, particulate reduction equipment) and use of fuel with low sulfur content	93.4	87.2	68.4	82.7
environment preservation	Water pollution prevention	Waste water treatment, measures against oil leaks and warm wastewater at power plants	14.4	28.3	11.6	28.6
	Noise and vibration prevention	Noise and vibration measures at power plants, substations and transmission facilities	8.8	0.0	15.4	0.7
	Late of the control	Reduction and recycling of industrial waste	11.9	25.2	11.6	33.7
	Industrial waste	Disposal of industrial waste, and PCB storage	13.8	9.3	14.7	4.1
Resource recycling	General waste	Reduction and recycling of general waste	0.5	1.3	1.6	2.8
1 1000 di 00 100 younig	Gerierai waste	Disposal of general waste	0.0	1.8	0.0	6.8
	Radioactive waste, and spent nuclear fuel **1	Disposal and other treatment of radioactive waste	4.7	67.5	0.4	71.1
Green procuremen	nt	Purchase of office and stationery supplies as a rule (Additional costs incurred from green procurement)	_	_	_	0
	Environmental activity organization	Costs from environment-related license acquisition, education and training, and for personnel	0.0	0.5	0.0	1.7
Environmental activity	ISO and EMS application and maintenance	ISO14001 and EMS (ISO-based system) acquisition, application and maintenance	0.2	1.1	0.0	2.6
management	Environmental load measurement and monitoring	Environmental impact assessment, monitoring and measurement of environmentally burdening substances, and PRTR measurements	2.7	15.9	2.9	16.9
Environment	Environmental preservation	Prevention of global warming, improvement of air and water quality and effective use of waste	0.0	3.9	3.0	6.1
related research	Environmental load control during transmission and distribution	Improvement in thermal efficiency and transmission/distribution loss factor	0.0	0.3	0.0	0.1
	Greening of sites	Greening, maintenance and management of Kyushu Electric power station sites	7.9	17.7	4.4	13.5
	Maintaining quality townscapes and surroundings	Measures to create harmony with surroundings such as tending to buildings with scenic care and instal- ling underground transmission and distribution lines	68.2	89.4	65.5	85.6
Social activities	Environment Month	Environment Month and Kyushu Homeland Forestation Program	0.1	0.8	0.1	0.8
	Supporting local environmental activities	Support for local environmental activities and environmental organizations	0.0	0.3	0.0	0.7
	Environmental information disclosure	Environment Action Report, pamphlet and website preparation	0.0	0.2	0.0	0.4
Response to environmental impairment		Pollution load levy under the Pollution-related Health Damage Compensation Law	0.0	9.7	0.0	8.5
Total		tal	232.7	405.4	205.7	417.1
		Percentage in Kyushu Electric Power total investments and costs	8%	3%	7%	3%
Reference Total investments Total costs		Total investments	2,	979	2,	980
		12,	902	12,	716	

(N.B.) Listed are Kyushu Electric Power's costs in FY 2001 and 2002 and benefits from environmental activities in FY 2002. Figures are rounded, and may not add up to the total.

**1:The figure does not include allowance for spent nuclear fuel reprocessing (refer to the reference table).

(Reference)	1
I Hataranca	1
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Maria a sticitata	2001		2002		×
Main activities	Investment	Accrued	Investment	Accrued	
Allowance for used nuclear fuel reprocessing **2	0.0	395.3	0.0	497.6	

※2: With respect to the used nuclear fuel which is stored at year-end, the costs required to reprocess such used nuclear fuel in the future are partially accrued at yearend in accordance with the applicable regulations.

3 Environmental activity benefits (Record for FY 2002)

See Related Information P46 For details of activity benefits calculation.

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Environmental activity benefits				
	Items	Extent of benefits, etc.		
	Nuclear power generation	32.12 million tons-CO ₂ /yr		
	LNG power generation	5.72 million tons-CO ₂ /yr		
ion	Hydro, geothermal power generation	584 million tons-CO2/yr		
CO ₂ reduction	New energy power generation and purchase	340,000 tons-CO ₂ /yr		
z ec	Improvement of facility efficiency	4.76 million tons-CO ₂ /yr		
8	World Bank PCF	_		
	Energy saving activities	108 tons-CO ₂ /yr		
	SF ₆ emission reduction ^{®1}	480,000 tons-CO ₂ /yr		
Fre	on emissions ^{**2}	0.1 ODP ton/yr		
SOx reduction 51,860 tons/yr				
NOx reduction 14,232 tons/yr				
Particulate reduction		87,954 tons/yr		
En	vironmental load reduced in wastewater	458 tons/yr		
Managed properly in conformity with laws and ordinances				
Am	ount recycled	438,000 tons/yr		
Pro	per final disposal amount	156,000 tons/yr		
	ed paper recycled	1,780 tons/yr		
	ed paper properly disposed	1 tons/yr		
Volume reduction in low-level radioactive waste		2,097 containers/y (each equivalent to one 200-liter oil dri		
Am	ount of used nuclear fuel stored	2,694 assemblies		
Green procurement is applied for the purchase of office and stationery supplies as a rule.				
Par	ticipants in training and lectures (in-company)	21,262 people / vr		

of office and stationery supplies as a rule.				
Participants in training and lectures (in-company)	21,262 people/yr			
Personnel with environment-related licenses	1,452 people			
Offices that acquired ISO certification	6 offices			
Offices that introduced EMS	72 offices			
Continuous monitoring and measurement items	175 items			
Continuous monitoring and measurement items of the monitoring and measurement points	22,577 points			
Research cases in practical-use phase	3 cases			
Total green area	47.10 millionm			
Total green area No. of buildings with scenic care	47.10 millionm ² 181 buildings			
No. of buildings with scenic care No. of steel towers with environmental care	181 buildings			
No. of buildings with scenic care	181 buildings 82 units			
No. of steel towers with environmental care Length of underground distribution lines **4	181 buildings 82 units 2,974km			
No. of buildings with scenic care No. of steel towers with environmental care Length of underground distribution lines ^{®4} No. of participants at lectures, etc.(outside the company)	181 buildings 82 units 2,974km 2,007 people / yr			
No. of buildings with scenic care No. of steel towers with environmental care Length of underground distribution lines ^{®4} No. of participants at lectures, etc.(outside the company) No. of trees and saplings planted	181 buildings 82 units 2,974km 2,007 people / yr 143,465 / yr			
No. of buildings with scenic care No. of steel towers with environmental care Length of underground distribution lines No. of participants at lectures, etc.(outside the company) No. of trees and saplings planted No. of environment organizations supported	181 buildings 82 units 2,974km 2,007 people/yr 143,465/yr 41 organizations			

- **1:SF₆ emission reduction is converted to the weight of CO₂ using the global warming potential for SF₆ (23,900). The amount of reduction includes that attained by equipment overhaul and dismantlement.
- **2:The emissions reduction for Freon is converted into a relative value taking ozone depletion potential (ODP) per unit weight of CFC-11 as 1.
- **3:Items for continuous monitoring and measurement, which was included in the "No. of monitoring and measurement locations" for the FY 2001 Report, are calculated separately.
- **4:The unit was changed from "distance" (used in the FY2001 Report) to "length" to reflect the status of installation more precisely by showing the total length of power lines.

FY 2002 calculation results

The environmental activity investments and costs for Fiscal 2002 totaled 20.57 billion yen and 41.71 billion yen, respectively. Compared to Fiscal 2001, the investments decreased by 2.7 billion yen, while the costs increased by 1.17 billion yen, mainly resulting from the following factors:

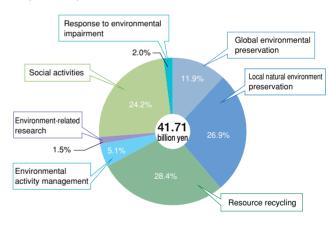
♦Investments

Capital investment was reduced from Fiscal 2001 following the completion of air pollution prevention facilities installation at Unit 2 of Reihoku Thermal Power Station in Fiscal 2002.

♦Costs

Costs for dealing with industrial and general waste increased due to the addition of the following costs: depreciation cost of the facilities for effective use of coal ash at Reihoku and Karita Power Stations; incinerator removal costs as a measure against dioxin emissions.

■ Environmental activity costs component ratio (FY 2002)



4 Economic effects from environmental activities

Among the environmental activities, the real economic effects that lead to savings and income are shown below:

Unit:100 million yen

Environmental activity category		Main activities	Quantity of benefits	
Global environmental preservation	Global warming prevention	Fuel cost savings from improvement of thermal efficiency, the transmission/distribution loss factor, and introduction of energy-saving, fuel-efficient vehicles	effi- dis- in- 219.6	
Resource	Waste measures	Income from sale of unneeded supplies	2.1	
recycling	Waste reduction	Final disposal cost savings from recycling	22.3	
Savings in statutory charges		Pollution load levy savings from SOx emission reduction	24.0	
	268.0			