

Records and Targets of Environmental Load

We set specific target values for our main environmental activities, and are striving to achieve sustained reduction of environmental load

	Items	Unit	Record			FY2005 targets			
			FY2003	FY2004	FY2005				
Measures for global environmental issues	Supply	CO ₂ emissions intensity (end use electricity)	kg-CO ₂ /kWh	0.309	0.331	0.368 ^{*2}	Approx.0.34 ^{*3}		
		CO ₂ emissions (Electricity sales)	10,000 tons-CO ₂ [100 million kWh]	2,390 [773]	2,660 [802]	3,060 ^{*2} [830]	Approx.2,700 ^{*3} [801]		
		Nuclear power operating factor	%	88.9	86.2	86.8	84.4 ^{*3}		
		Efficiency at thermal power stations (sent-out thermal efficiency)	%	39.2	39.3	39.3	Approx.40 ^{*3}		
		Utilization of power generated from new energy sources	100 million kWh	3.9 or more	4.2 or more	4.5 or more	4.5 or more		
		Transmission and distribution loss factor	%	5.4	5.5	5.2	5.4 ^{*3}		
	Consumption	Office energy and resource conservation	In-house power consumption	CO ₂ emissions ^{*6}	10,000 tons- CO ₂	5.4	5.8	6.1	—
				In-house power consumption ^{*6}	million kWh	176	174	167	—
			In-house logistics	CO ₂ emissions ^{*6}	10,000 tons- CO ₂	0.6	0.6	0.6	—
		Fuel for regular vehicles consumed ^{*6}		Km/ ℓ	11.8	11.7	11.9	—	
		Low-emission/fuel-efficient vehicle introduction ^{*7}	%	11.8	21.6	25.5	25 or more		
		Paper purchased ^{*6}	tons	—	600	581	—		
		Clean water used ^{*6}	m ³ /person	—	36 ^{*8}	36 ^{*8}	—		
		SF ₆ recovery at equipment inspections	%	98	98	99	98 or more		
		Regulated freons recovery at equipment checkups	%	99	100	100	100		
		Establishing a recycling society	Industrial waste recycled	%	92	92	92	90 or more	
			Coal ash recycled	%	90	90	91	90 or more	
			Other waste recycled	%	99	98	98	98 or more	
			Industrial waste landfilled outside company	tons	1,160	1,040	1,210	1,000 or less	
Used paper recycled	%		100	100	100	100			
Green procurement ^{*9}	%		88	94	97	100			
Harmoniously coexisting with the local environment	SO _x emissions intensity per thermal power generated kWh	g/kWh	0.16	0.20	0.22	Approx.0.2			
	NO _x emissions intensity per thermal power generated kWh	g/kWh	0.18	0.18	0.19	Approx.0.2			
	Sievert calculation in radiation measurement on people living near nuclear power stations per year	mSv	Less than 0.001	Less than 0.001	Less than 0.001	Less than 0.001			

Note: Qualified Person for Energy Management of Type 1 Designated Factory and Pollution Control Manager numbers have been removed from environmental targets as a result of the success of EMS, which has contributed to an increase in employees' awareness of environmental issues.

*1 : The degree to which FY2005 performance achieves the targets is evaluated on a 3-level system. ○: fully achieved, △: almost achieved (more than 80%), ×: not achieved (less than 80%).

*2 : Calculation methods for CO₂ emission volume and CO₂ emission factors for electric utilities as defined under the Law Concerning the Promotion of Measures to Cope with Global Warming were not established as of the time of calculation of these figures.

*3 : Prospects based on FY2005 power supply plans.

*4 : Prospects based on FY2006 power supply plans.

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		FY2006	FY2007	FY2008	FY2009	
△	As a result of our ongoing efforts to operate nuclear power generation facilities safely and stably, working capacity of nuclear energy has increased 2.4 points on our projections. Still, the increase in electricity sales resulting from increased demand through seasonal heating and cooling devices (2.8 billion kWh more than planned) and a reduction in hydro electricity generated as a result of droughts saw an increase in thermal electricity generation, with a corresponding increase in CO ₂ emissions by approximately 3.6 million tons-CO ₂ , and net CO ₂ emissions intensity by 0.03kg-CO ₂ /kWh. It is our intention to continue working to maintain the usage rates of nuclear energy and improve the working capacity of high-efficiency thermal power stations so as to keep the net CO ₂ emissions intensity to a minimum.	FY2010 target: reduce approximately 20% from FY1990 levels				P22 ~25
		Approx. 0.36*4	Approx. 0.34*4	Approx. 0.36*4	Approx. 0.36*4	
○		Approx. 2,900*4 [812]	Approx. 2,800*4 [821]	Approx. 3,000*4 [824]	Approx. 3,000*4 [830]	P22
○		82.1*4	87.5*4	83.9*4	Approx. 85*4	P22
△	While we were able to maintain the highest ever working capacity of high-efficiency thermal power stations such as Shin Oita Power Station, increases in electricity sales saw an increase in the operating ratios of conventional power stations, and thus we were unable to meet projections in this area. We will continue to improve the working capacity of high-efficiency power stations so as to boost thermal efficiency.	Approx. 40*4	Approx. 40*4	Approx. 40*4	Approx. 40*4	P25
○	The use of company-owned power sources such as the Hatchobaru Binary Cycle Power Plant and efforts to purchase electricity from customers allowed us to meet this target.	5.0 or more*5	6.3 or more*5	7.4 or more*5	8.9 or more*5	P24
○	The target was met with a 0.2-point margin due to efforts to improve operational efficiency of transmission and distribution facilities such as low-loss transformers, although electricity sales were higher than the planned value.	5.4*4	5.4*4	5.4*4	5.4*4	P25
-	(New target)	FY2010 target: keep at approximately same levels as FY1990				P25
		Approx. 5.8	Approx. 5.7	Approx. 5.7	Approx. 5.5	
-	(New target)	163 or less	159 or less	158 or less	153 or less	P25
		FY2010 target: keep at approximately same levels as FY1990				
-	(New target)	Approx. 0.6	Approx. 0.6	Approx. 0.6	Approx. 0.6	P25
		12.0 or more	12.1 or more	12.2 or more	12.3 or more	
○	30 clean energy vehicles and 76 fuel-efficient vehicles were introduced as planned, allowing us to achieve the target.	40 or more	50 or more	60 or more	70 or more	
-	(New target)	600 or less	600 or less	600 or less	600 or less	P25
-	(New target)	36 or less	36 or less	36 or less	36 or less	P25
○	The target was met by the use of vacuum SF ₆ recovery equipment at the time of checkups ensured by facility management staff members' enhanced self-management awareness.	98 or more	98 or more	98 or more	98 or more	P27
○	The target was met due to the recovery of regulated freons meeting the required legal standards (legal pressures at the time of dismantlement) by facility management staff members' enhanced self-management awareness.	100	100	100	100	P27
○		90 or more	90 or more	90 or more	90 or more	
○	Making effective use of coal ash, such as in cement materials and soil improvement material, thorough EMS-based target management, and steady progress in the new cooperative collection scheme allowed us to meet this target.	90 or more	90 or more	90 or more	90 or more	P28 ~29
○		98 or more	98 or more	98 or more	98 or more	
×	An increase in the volume of waste resulting from regular inspection of facilities led to a subsequent increase in the volume of waste unable to be recycled. Therefore, this target was not achieved. It is our intention to expand the range of items recoverable under the cooperative collection scheme so as to reduce those destined for external landfills.	1,000 or less	1,000 or less	1,000 or less	1,000 or less	P29
○	The target was met due to continuous efforts towards recycling 100% of used paper by ensuring handover process to recycling businesses including Kyushu Environmental Management Corporation.	100	100	100	100	P29
△	This figure improved by three percentage points over the previous year thanks to our use of the Green Catalogue, but the target was not met. Future improvement is being pursued through efforts such as employee awareness enhancement and effective use of the new Electronic Catalogue purchasing system.	100	100	100	100	P30
○	The target was met by proper operation of desulfurization and denitration facilities although increased electricity sales raised thermal power generated kWh, which has relatively high emissions intensity.	Approx. 0.2	Approx. 0.2	Approx. 0.2	Approx. 0.2	P32
○		Approx. 0.2	Approx. 0.2	Approx. 0.2	Approx. 0.2	
○	The target was met by appropriately conducting nuclear power station operation and radioactive waste management according to laws and ordinances.	Less than 0.001	Less than 0.001	Less than 0.001	Less than 0.001	P32

*5 : This figure is calculated by Kyushu Electric Power from national standard utilisation values currently being revised (as at May 31, 2006). (source: RPS Law Re-evaluation Subcommittee Report)

*6 : This target was newly introduced based on the Kyoto Protocol Target Achievement Plan.

*7 : This is the percentage of clean-energy vehicles (electric vehicles, hybrid cars) and fuel-efficient vehicles (i.e., those that conform with FY2010 fuel economy standards and are approved by the Ministry of Land, Infrastructure and Transport as low-emission vehicles) in the company fleet.

*8 : The volume of clean water used in whole company divided by the number of employees (as at the end of the pertinent fiscal year).

*9 : The scope of green procurement includes office and stationery supplies that conform with socially-recognised standards.