

Environmental Data

Environmental Performance Data

Activity results,
performance data

Major Types of Environmental Burden (Total burden; covering Group companies around the world)

Category		Chief Component	Environmental Burden (Total)
INPUT	Material (t)	Total input	1,845,273
		Paper	1,356,292
		Ink, solvent	94,229
		Plastic	345,581
		Glass	8,513
		Other	40,658
	Energy (TJ) ^{*1}	Total consumption	21,313
		Fuel	4,502
		Electricity, steam	16,810
	Water (1,000 m ³)	Total consumption	12,714
		Industrial water	772
		Municipal water	5,004
		Groundwater	6,914
		Rainwater used	24
	Use of water circulated on premises	4,132	
Chemical substances (t) ^{*2}	Handling of chemical substances designated under the PRTR law	4,484	
OUTPUT	Atmosphere	CO ₂ emission (t-CO ₂) ^{*3}	1,014,288
		Fuel-derived (t-CO ₂)	256,966
		Electricity-, steam-derived (t-CO ₂)	757,323
		Release of chemical substances designated under the PRTR law (t) ^{*2}	83
		VOC emission into the atmosphere (t) ^{*2,4}	3,657
	Water and soil environments	Total effluent discharge (1,000 m ³)	9,979
		Into public water system (1,000 m ³)	7,354
		Into sewage system (1,000 m ³)	2,625
		BOD (kg)	24,642
		COD (kg)	46,135
		Nitrogen discharge (kg)	20,180
		Phosphorous discharge (kg)	5,887
		Release of chemical substances designated under the PRTR law (t) ^{*2}	1
Waste (t)	Total discharge ^{*5}	322,110	
	Recycled	314,142	
	Final landfill disposal	6,214	

*1 Energy consumption associated with fuel consumption is calculated using the conversion factor specified in the year 2000 amendment of the Act on the Rational Use of Energy of Japan.

The primary energy input associated with electricity consumption is calculated uniformly as 0.00983 GJ/kWh.

*2 The PRTR data only covers domestic sites (including Group sites not subject to the environmental targets).

*3 CO₂ emissions are calculated by the method specified in the Guidelines for Calculating Greenhouse Gas Emissions from Businesses (2003) issued by the Ministry of the Environment (MOE) of Japan.

CO₂ emissions associated with electricity consumption are calculated uniformly as 0.378 t-CO₂/MWh.


CO₂ emissions associated with electricity consumption at overseas Group sites, however, are calculated based on the latest conversion factors published by the International Energy Agency (IEA).

Fuel-derived CO₂ emissions include emissions derived from combustibles burned in incinerators.

*4 Emissions into the atmosphere are calculated based on the standards established by the Japan Federation of Printing Industries (JFPI) and the VOC emission inventory issued by the MOE of Japan.

*5 The total discharge of waste includes industrial waste of no value and waste materials of value sold or transferred as resources (both generated in association with business activities).

Environmental Data

Every indicator assured by an independent assurance provider is marked with an assurance stamp .

Major Types of Environmental Burden (subject to the environmental targets in Japan)

Category		Chief Component	Environmental Burden (subject to the environmental targets in Japan)
INPUT	Material (t)	Total input	910,211
		Paper	647,091
		Ink, solvent	50,288
		Plastic	180,172
		Glass	7,227
		Other	25,433
	Energy (TJ) ^{*1}	Total consumption	11,747
		Fuel	2,989
		Electricity, steam	8,758
	Water (1,000 m ³)	Total consumption	6,598
		Industrial water	750
		Municipal water	1,095
		Groundwater	4,743
		Rainwater used	10
		Use of water circulated on premises	4,090
	Chemical substances (t)	Handling of chemical substances designated under the PRTR law	4,462
OUTPUT	Atmosphere	CO ₂ emission (t-CO ₂) ^{*2}	506,597
		Fuel-derived (t-CO ₂)	169,649
		Electricity-, steam-derived (t-CO ₂)	336,948
		Release of chemical substances designated under the PRTR law (t)	83
		VOC emission into the atmosphere (t) ^{*3}	2,480
	Water and soil environments	Total effluent discharge (1,000 m ³)	5,307
		Into public water system (1,000 m ³)	4,236
		Into sewage system (1,000 m ³) ^{*4}	1,071
		BOD (kg)	9,763
		COD (kg)	8,961
		Nitrogen discharge (kg)	10,950
		Phosphorous discharge (kg)	434
		Release of chemical substances designated under the PRTR law (t)	1
	Waste (t)	Total discharge ^{*5}	186,140
		Recycled	185,745
Final landfill disposal		51	

*1 Energy consumption associated with fuel consumption is calculated using the conversion factor specified in the year 2000 amendment of the Act on the Rational Use of Energy of Japan.

The primary energy input associated with electricity consumption is calculated uniformly as 0.00983 GJ/kWh.

*2 CO₂ emissions are calculated by the method specified in the Guidelines for Calculating Greenhouse Gas Emissions from Businesses (2003) issued by the Ministry of the Environment (MOE) of Japan.

CO₂ emissions associated with electricity consumption are calculated uniformly as 0.378 t-CO₂/MWh.

Fuel-derived CO₂ emissions include emissions derived from combustibles burned in incinerators.

*3 Emissions into the atmosphere are calculated based on the standards established by the Japan Federation of Printing Industries (JFPI) and the VOC emission inventory issued by the MOE of Japan.

*4 Includes 8,809 m³ of spring water from the premises of the Akihabara Sales Building.

*5 The total discharge of waste includes industrial waste of no value and waste materials of value sold or transferred as resources (both generated in association with business activities).