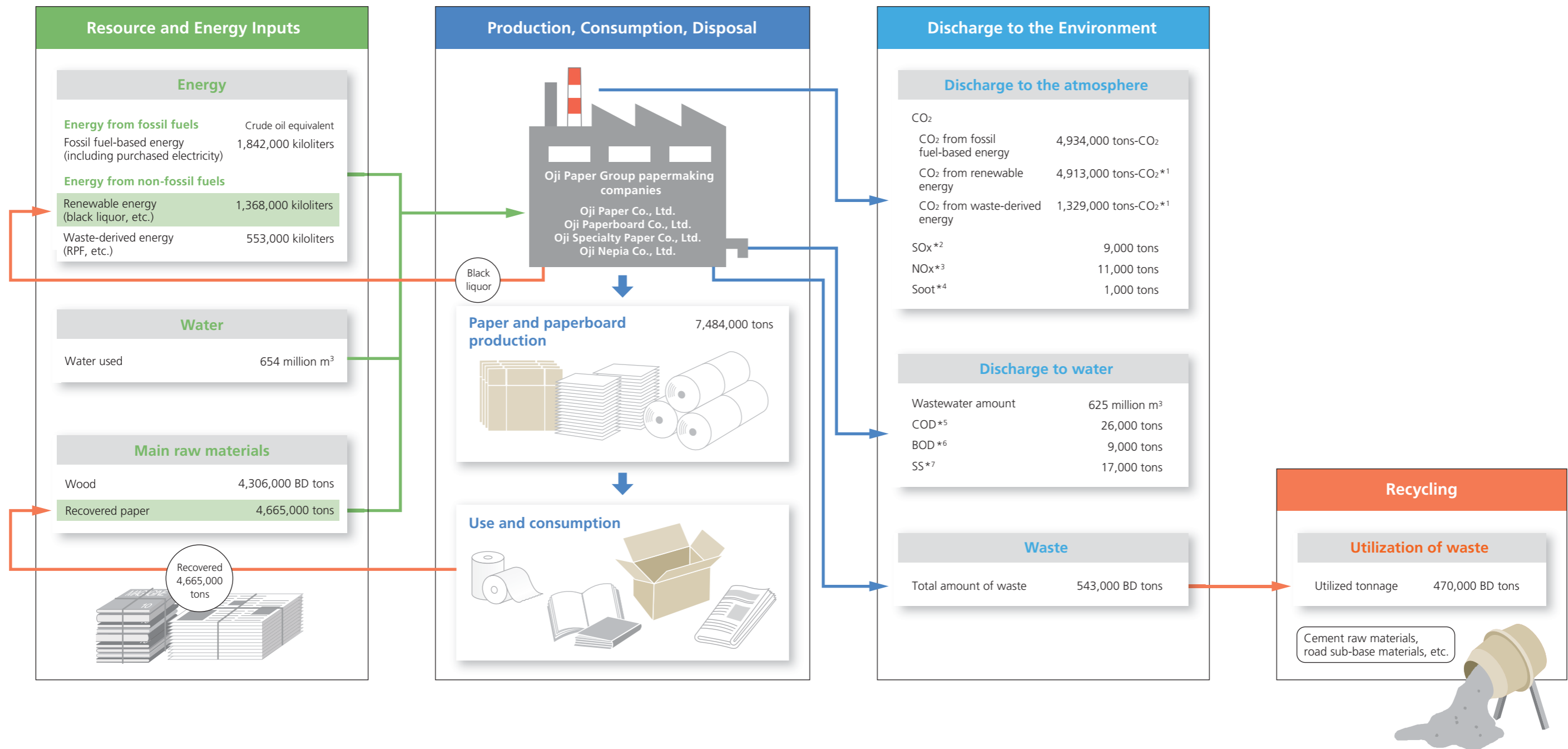


1 Resource and Energy Inputs and Discharges to the Environment



Companies covered: Oji Paper Co., Ltd., Oji Paperboard Co., Ltd., Oji Specialty Paper Co., Ltd., Oji Nepia Co., Ltd.

*1 Based on the CO₂ emission factor estimated by Oji Paper. Includes CO₂ from biomass (black liquor, wood, etc.). Figures are not greenhouse gas equivalents.

*2 SO_x (sulfur oxides): Oxides of sulfur included in the exhaust gas from boilers, incinerators, and other combustion equipment.

*3 NO_x (nitrogen oxides): Oxides of nitrogen included in the exhaust gas from boilers, incinerators, and other combustion equipment.

*4 Soot: Particulate matter included in the exhaust gas from boilers, incinerators, and other combustion equipment.

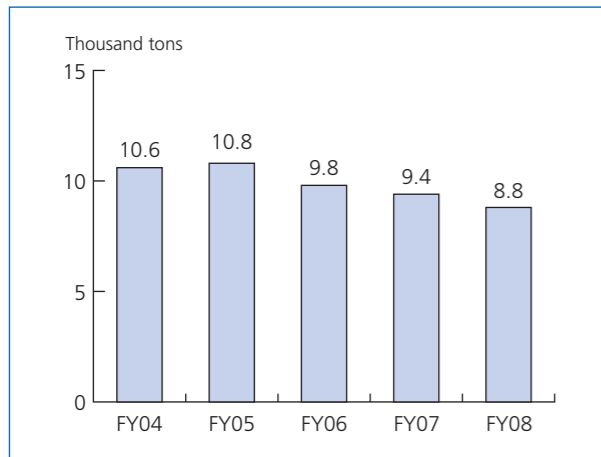
*5 COD (chemical oxygen demand): The amount of oxygen consumed to decompose organic compounds in water through oxidation. The smaller the number, the cleaner the water.

*6 BOD (biochemical oxygen demand): The amount of oxygen consumed when microorganisms decompose organic compounds in water. The smaller the number, the cleaner the water.

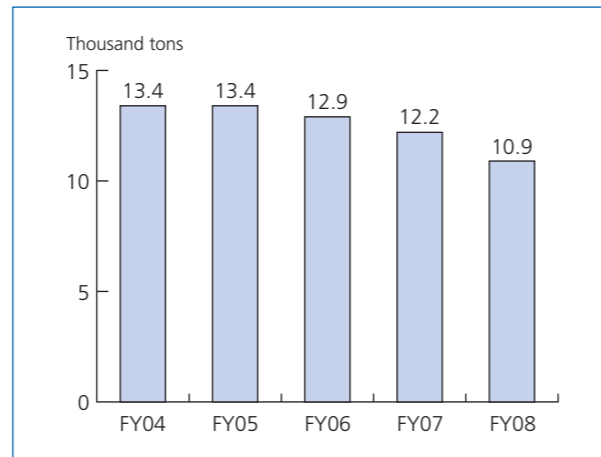
*7 SS (suspended solids): Insoluble material in wastewater.

2 Environmental Impact on the Atmosphere, Water and from Waste

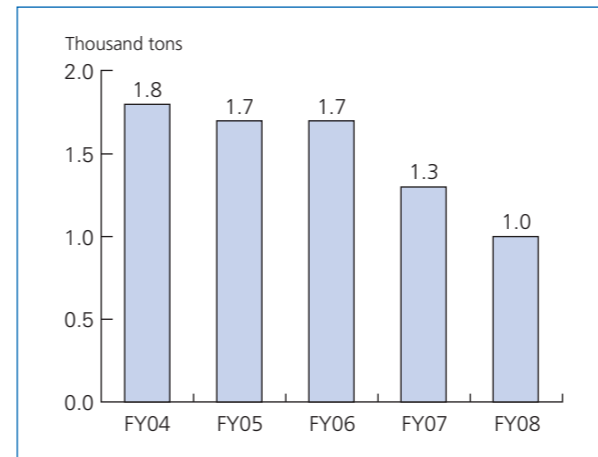
Graph 1 SOx Emissions



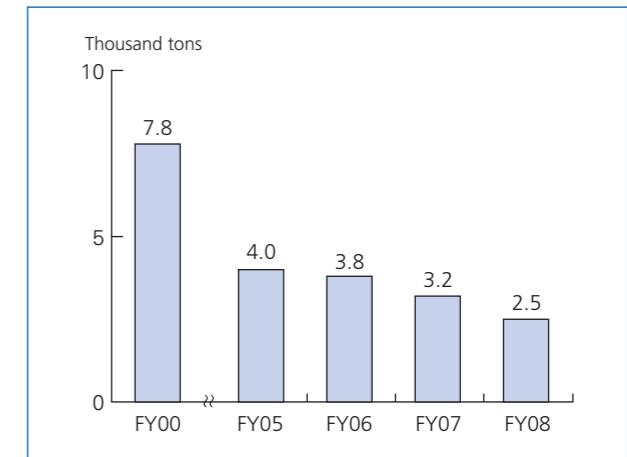
Graph 2 NOx Emissions



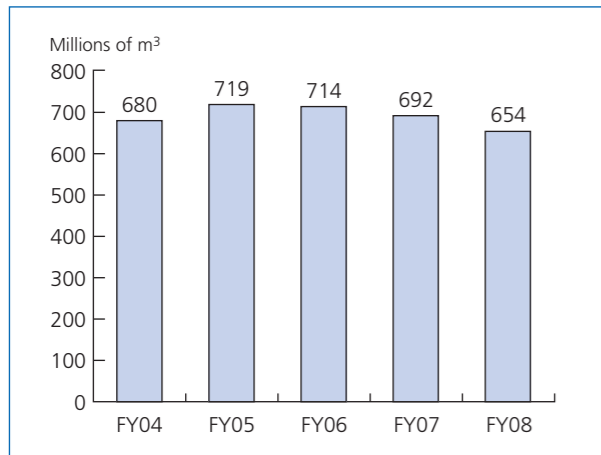
Graph 3 Soot Emissions



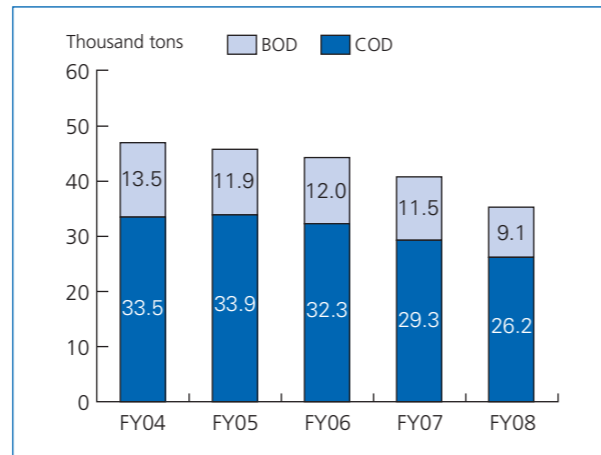
Graph 4 VOC*1 Emissions



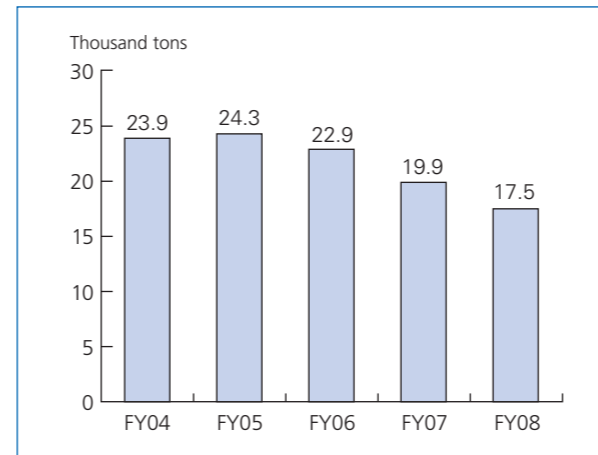
Graph 5 Water Usage



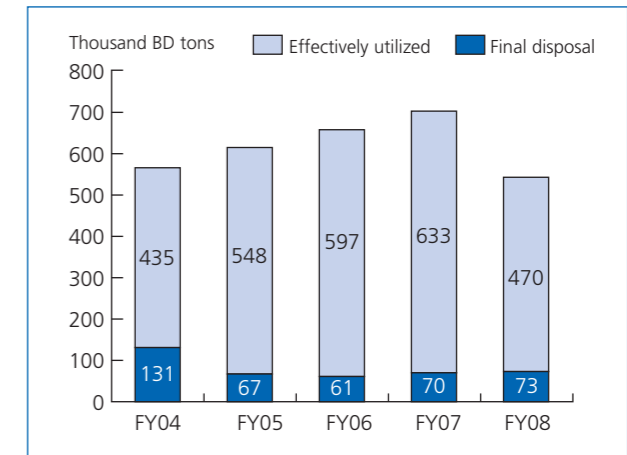
Graph 6 COD and BOD Emissions



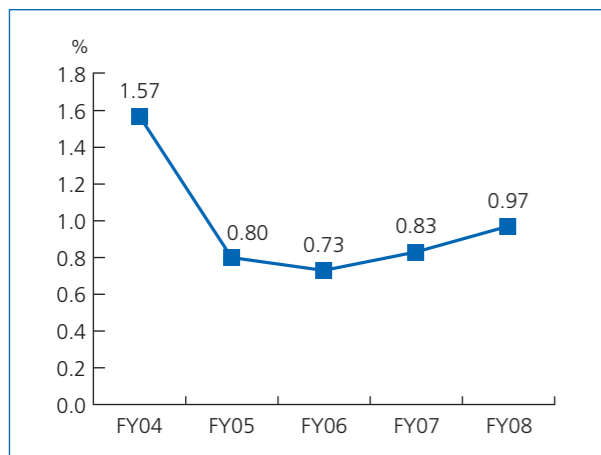
Graph 7 Emissions of Suspended Solids



Graph 8 Amount of Waste*2



Graph 9 Final Disposal Rate



Graph 10 Storage and Processing of PCB Waste

	Amount stored	Processed	Amount after process
Oji Paper Co., Ltd.	40,556	2,276	38,280
Oji Paperboard Co., Ltd.	44,001	0	44,001
Oji Specialty Paper Co., Ltd.	13,996	0	13,996
Other	19,195	0	19,195
Total	117,748	2,276	115,472

kg
As of August 31, 2009

Companies covered by graphs: Oji Paper Co., Ltd., Oji Paperboard Co., Ltd., Oji Specialty Paper Co., Ltd., Oji Nepia Co., Ltd.

*1 VOC: Volatile organic compounds, including thinners such as toluene, acetone, and ethyl acetate.

*2 Previous calculation method was used for graph 8 and graph 9 data.

3 Environmental Impact of Individual Mills and Group Companies (Fiscal 2008)

Table 1 Oji Paper Mills

	Production	Environmental impact on the atmosphere			Environmental impact on water					Waste disposal (previous method)*1			Waste disposal (new method)		
	a	Sulfur oxides (SOx)	Nitrogen oxides (NOx)	Soot	Water consumption	Wastewater	COD	BOD	SS	Total amount of waste		Final disposal rate	Total amount of waste	Final disposal amount	Final disposal rate
										Effectively utilized amount*2	Final disposal amount*3				
	Thousand tons	Tons	Tons	Tons	Thousand m ³	Thousand m ³	Tons	Tons	Tons	BD tons	BD tons	%	AD tons	AD tons	%
Kushiro Mill	603	1,673	1,002	160	72,863	63,404	–	5,326	3,027	54,971	552	0.09	144,484	1,862	1.29
Tomakomai Mill	1,224	2,014	2,544	59	130,617	121,176	10,466	–	5,092	119,710	3,883	0.32	395,711	8,419	2.13
Fuji Mill	392	46	279	18	28,554	28,290	1,018	–	453	33,380	259	0.07	154,655	259	0.17
Kasugai Mill	676	164	1,187	130	58,922	61,240	2,965	–	1,452	33,198	26,724	3.95	151,175	38,763	25.64
Kanzaki Mill	65	0	17	0	363	249	–	17	10	7,385	7	0.01	8,853	8	0.09
Yonago Mill	491	878	1,170	60	44,555	44,555	2,718	–	1,248	38,929	400	0.08	115,709	400	0.35
Kure Mill	264	17	787	23	47,413	47,227	2,002	–	567	9,795	561	0.21	54,058	1,021	1.89
Tomioka Mill	466	208	1,020	112	60,298	58,665	2,726	–	935	33,761	2,970	0.64	113,671	3,924	3.45
Nichinan Mill	261	962	401	49	33,210	33,210	2,058	–	1,488	20,899	24,249	9.29	87,980	34,311	39.00
Total	4,441	5,963	8,408	610	476,794	458,016	23,953	5,343	14,270	352,028	59,605	1.34	1,226,296	88,967	7.25

Table 2 Oji Paper Group Companies

	Production	Environmental impact on the atmosphere			Environmental impact on water					Waste disposal (previous method)			Waste disposal (new method)		
	a	Sulfur oxides (SOx)	Nitrogen oxides (NOx)	Soot	Water consumption	Wastewater	COD	BOD	SS	Total amount of waste		Final disposal rate	Total amount of waste	Final disposal amount	Final disposal rate
										Effectively utilized amount	Final disposal amount				
	Tons	Tons	Tons	Tons	Thousand m ³	Thousand m ³	Tons	Tons	Tons	BD tons	BD tons	%	AD tons	AD tons	%
Oji Paper Co., Ltd.	4,440,969	5,963	8,408	610	476,794	458,016	23,953	5,343	14,270	352,028	59,605	1.34	1,226,296	88,967	7.25
Oji Paperboard Co., Ltd.	2,410,341	768	1,794	124	108,840	103,062	1,582	1,397	1,912	73,025	9,092	0.38	233,212	16,103	6.90
Oji Specialty Paper Co., Ltd.	408,019	1,821	644	200	62,002	58,679	371	2,322	1,199	37,187	1,979	0.49	79,765	2,953	3.70
Oji Nepia Co., Ltd.	225,026	289	88	16	5,943	5,668	331	–	80	7,314	2,274	1.01	28,837	5,439	18.86
Oji Cornstarch Co., Ltd.	314,741	15	90	2	10,058	9,748	56	79	47	2,061	561	0.18	–	–	–
Oji Chiyoda Container Co., Ltd.	897,857	88	48	5	364	194	0	7	4	92,517	655	0.07	–	–	–
Mori Shigyo Group (excluding Oji Paper Co., Ltd.)	826,567	114	48	16	331	136	0	9	2	70,679	648	0.08	–	–	–
Oji Tac Co., Ltd.	15,305	2	1	0	231	231	–	0	0	2,406	20	0.13	–	–	–
Yupo Corporation	19,144	–	–	–	47	54	–	–	–	807	19	0.10	–	–	–
Oji Kinocloth Co., Ltd.	26,179	0	7	0	495	489	–	–	–	2,267	87	0.33	–	–	–
Oji Packaging Co., Ltd.	72,124	0	0	0	26	26	–	–	–	9,642	155	0.21	–	–	–
Total for 21 other affiliates	397,770	101	33	7	2,550	2,253	168	2	13	21,995	1,432	0.36	–	–	–
Total	10,054,042	9,162	11,160	979	667,682	638,555	26,462	9,160	17,525	671,928	76,527	0.76	–	–	–

*1 Starting from fiscal 2008, two calculation methods (previous and current) have been in use to derive data.

Previous method using dry weight method (BDt): Final disposal rate=Final disposal amount/production

Current (new) method using wet weight (ADt): Final disposal rate=Final disposal amount/Total amount of waste

*2 Effectively utilized amount: Amount of BD tons effectively utilized (including reduction amount)

*3 Final disposal amount: Total amount of BD tons that has gone to landfills.

4 Release and Transfer of PRTR Chemical Substances (Fiscal 2008)

Substance	Amount handled (output)	Released to atmosphere	Released to public waters	Total released (calculated value)	Total transferred (calculated value)	Total released and transferred (FY08)	Total released and transferred (FY07)
zinc compound (water-soluble)	16	0	3	3	4	7	10
acrylic acid	1	0	0	0	0	0	0
2-aminoethanol	15	1	0	1	1	2	0
diethylenetriamine							0
n-alkylbenzenesulfonic acid and its salt (C=10-14)							0
antimony and its compounds	4	0	0	0	0	0	0
ethylbenzene	7	2	0	2	0	3	2
ethylene glycol	8	0	0	0	3	3	3
xylene	892	5	0	5	1	6	7
glyoxal	2	0	0	0	0	0	0
chloroform	9	7	2	9	0	9	15
vinyl acetate	623	1	0	1	0	1	1
cyclohexylamine	5	5	0	5	0	5	5
styrene	14	0	0	0	3	3	0
copper water-soluble salt (except complex salt)	46	0	17	17	0	18	17
toluene	3,641	1,657	0	1,657	189	1,846	2,535
bis (8-quinolinolato) copper	8	0	1	1	0	1	1
hydrazine	1	0	0	0	0	0	0
phenol	5	0	0	0	0	0	0
hydrogen fluoride and its water-soluble salts	3	0	3	3	0	3	
di-n-butyl phthalate							0
benzene	336	44	0	44	0	44	33
boron and its compounds	251	0	16	16	6	22	16
poly (oxyethylene) alkyl ether (C=12-15)	13	0	0	0	0	0	1
poly (oxyethylene) nonylphenol ether	2	0	0	0	0	0	0
formaldehyde	41	1	2	2	0	2	4
manganese and its compounds	1	0	1	1	0	1	3
methylenebis (4,1-cyclohexylene) diisocyanate	5	0	0	0	0	0	0
Total (tons) (excluding dioxins)	5,950	1,721	45	1,766	207	1,973	2,654

dioxins (mg-TEQ)	1,256	176	57	793	463	1,256	2,115
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Companies covered: Oji Paper Group facilities that submit PRTR (excluding affiliates)

Note 1) Excluding dioxin; numbers prepared for substances of which one ton or more (0.5 tons or more for Class 1 Specified Chemical Substances) is handled (including amount produced).

Note 2) Rounded to the nearest whole amount. Chemicals with blank fields indicate amounts less than one ton handled.

Note 3) Total released and transferred (FY07) has been partially revised from the 2008 Environmental and Sustainability Report according to reported changes.

5 Environmental Accounting (Fiscal 2008)

Unit: millions of yen

Environmental conservation cost				
Category		Main initiatives	Investment	Costs
1. Environmental conservation costs for curbing environmental impact generated by production and service activities within business sites			16,848	22,412
Breakdown	a. Environmental conservation management costs	Installation of wastewater treatment facilities, installation of deodorizing equipment, noise and vibration control construction, etc.	4,722	13,450
	b. Global environmental conservation costs	Cultivating company-owned forests in Japan, tree plantation operations outside Japan, energy conservation investments	4,325	751
	c. Resource circulation costs	Efficient utilization of resources, costs for waste measures	7,801	8,210
2. Costs for curbing environmental impact generated upstream or downstream by production and service activities		Costs for purchasing low-sulfur fuel (balance amount)	0	789
3. Environmental conservation costs related to administrative activities		Employee education, ISO 14001 costs, costs for air and water analysis, costs for operating committees and other organizations, etc.	1	853
4. Environmental conservation costs related to R&D activities		Product development that contributes to environmental conservation by promoting utilization of recovered paper, curbing environmental impact that occurs during production, etc.	87	2,054
5. Environmental conservation costs related to social activities		Philanthropic programs, support for various environmental groups, environmental and sustainability reporting, environmental exhibitions, etc.	0	170
6. Costs related to environmental damage		Pollution impact levy (SOx)	0	640
Total			16,937	26,918

Unit: millions of yen

Economic benefit associated with environmental conservation activities	
Effect	Value
Income from company-owned forests in Japan	402
Cost reductions through energy conservation	2,105
Income from recycling	1,997
Total	4,504

Method and scope of data aggregation

Source: Data aggregation was performed in accordance with the *Environmental Accounting Guidelines* published by Japan's Ministry of the Environment.

Companies covered: Oji Paper Co., Ltd., Oji Paperboard Co., Ltd., Oji Specialty Paper Co., Ltd., Oji Nepia Co., Ltd., Oji Chiyoda Container Co., Ltd., Oji Cornstarch Co., Ltd., Oji Tac Co., Ltd.

Period covered: April 1, 2007 – March 31, 2008

6 Accident Record (Fiscal 2008)

Date occurred, mill	Status and cause	Measures
June 17, 2008 Oji Paper's Kasugai Mill	Fire is thought to have occurred due to either overheating caused by heat conducted from pulleys on the conveyor which transports wood fuel to the boiler, or ignition of wood dust caused by friction heat on the conveyor.	1) Thoroughly undertake equipment handling and cleaning to prevent dust accumulation 2) Install temperature sensors and sprinkling equipment 3) Improve equipment to make inspections easier