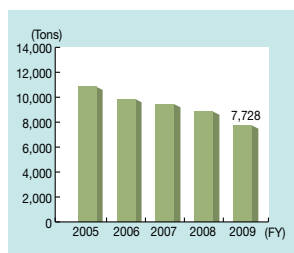


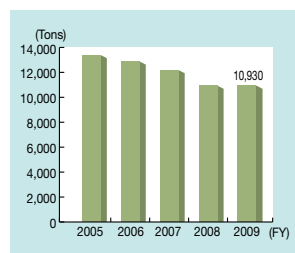
Oji Paper Group Environmental Data

Annual emission and usage volumes of substances (Oji Paper Group's four papermaking companies)

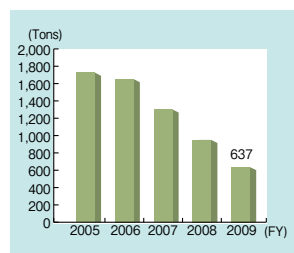
1) SOx Emissions



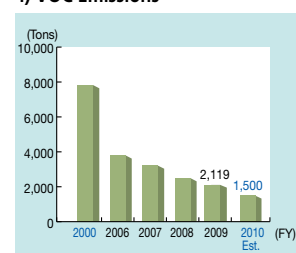
2) NOx Emissions



3) Soot Emissions

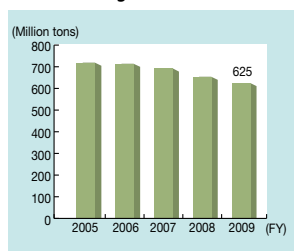


4) VOC Emissions

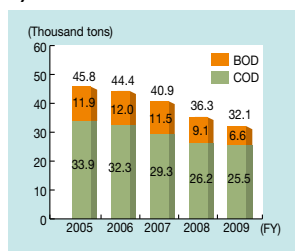


* Target for FY2010 is 75% reduction from FY2000 levels.

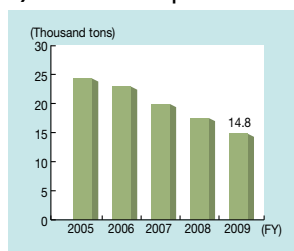
5) Water Usage



6) COD and BOD Emissions



7) Emissions of Suspended Solids



Release and Transfer of PRTR Chemical Substances (Fiscal 2009)

(Unit: tons, except for dioxins, which are mg-TEQ)

Substance	Amount handled (output)	Released to atmosphere	Released to public waters	Total released (calculated value)	Total transferred (calculated value)	Total released and transferred	Total released and transferred (FY08)
zinc compound (water-soluble)	18	0	1	1	3	4	7
acrylic acid							0
2-aminoethanol	15	0	0	0	0	0	2
diethylenetriamine	1	0	0	0	0	0	
antimony and its compounds	2	0	0	0	0	0	0
asbestos ¹	25	0	0	0	25	25	47
ethylbenzene	5	0	0	0	0	0	3
ethylene glycol	6	0	0	0	2	2	3
xylene	927	3	0	3	1	4	6
glyoxal	1	0	0	0	0	0	0
chloroform	8	8	0	8	0	8	9
vinyl acetate	552	1	0	1	0	1	1
cyclohexylamine	2	2	0	2	0	2	5
N,N-dimethylformamide	94	94	0	94	0	94	
styrene	12	0	0	0	1	1	3
copper water-soluble salt (except complex salt)	26	0	6	6	0	6	18
toluene	3,755	1,707	0	1,707	250	1,957	1,846
bis (8-quinolinolato) copper	4	0	0	0	0	0	1
hydrazine							0
phenol							0
hydrogen fluoride and its water-soluble salts	3	0	3	3	0	3	3
benzene	352	41	0	41	0	41	44
boron and its compounds	243	0	11	11	4	15	22
poly (oxyethylene) alkyl ether (C=12-15)	9	0	0	0	0	0	0
poly (oxyethylene) nonylphenol ether	2	0	0	0	0	0	0
formaldehyde	27	0	1	1	0	1	2
manganese and its compounds	1	0	1	1	0	1	1
methylenebis (4,1-cyclohexylene) diisocyanate	1	0	0	0	0	0	0
Total	6,091	1,856	23	1,879	286	2,165	2,023
dioxins ²	964	34	29	63	901	964	1,256

Companies covered: Oji Paper Group facilities that submit PRTR (excluding affiliates). New Tac Kasei Co., Ltd. is included in statistics from FY2009.

1 Transfer due to dismantling of facilities and equipment containing asbestos.

2 Release and transfer of dioxins into the atmosphere or waterways is less than 1/100 of emissions standards.

Notes

• Excluding dioxins; 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).

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

• Total released and transferred (FY08) has been partially revised from Environmental and Sustainability Report 2009 Statistics according to reported changes.

Oji Paper Group Environmental Data

Environmental Impact

	Number of mills	Production Thousand tons	Energy	
			Fossil fuel consumption Crude oil equivalent Thousand kl	CO ₂ emissions Derived from fossil fuels Thousand tons-CO ₂
			Oji Paper Co., Ltd.	9
Oji Paperboard Co., Ltd.	11	2,322	412	1,123
Oji Specialty Paper Co., Ltd.	8	407	168	416
Oji Nepia Co., Ltd.	3	220	104	233
Oji Chiyoda Container Co., Ltd.	28	975	32	70
Mori Shigyo Group (excluding Oji Paper Co., Ltd.)	21	829	33	69
Oji Paper Co., Ltd.	1	39	7	17
Oji Packaging Co., Ltd.	2	61	5	11
Oji Cornstarch Co., Ltd.	3	283	41	90
Oji Kinocloth Co., Ltd.	2	26	10	18
Oji Tac Co., Ltd.	1	14	5	9
Oji Setai Kaisha, Ltd.	7	25	1	1
Oji Forest & Products Co., Ltd.	11	140	2	4
Total for 20 other affiliates*	68	238	42	95
Total	175	9,708	1,815	4,830

*20 other affiliates:

Chuetsu Co., Ltd., TAKASAKI KASEI Co., Ltd., Shizuoka Oji Container Co., Ltd., Shinomura Chemical Industry Co., Ltd., NIHON SEIKAHOSO Co., Ltd., Musashi Oji Container Co., Ltd., Kyodo Shiko Co., Ltd., Yupo Corporation, Shin Nippon Feather Core Co., Ltd., Oji Interpack Co., Ltd., DHC Ginza Co., Ltd., Tomakomai Energy Kosha Co., Ltd., Oji Real Estate Co., Ltd., OJISAITOU SHIGYO PAPER RECYCLE CO., LTD., Medical Corporation Oji General Hospital, HOTEL NEW OJI CO., LTD., Oji Logistics Co., Ltd., Hirata Warehouse Co., Ltd., Kikkou Tsuun Co., Ltd., OJI PIER TERMINAL CO., LTD.

Environmental Accounting

(Unit: ¥ million)

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	16,346	21,664	
Break-down	a. Environmental conservation management costs	2,591	12,867	
	b. Global environmental conservation costs	11,760	774	
	c. Resource circulation costs	1,995	8,023	
(2)	Costs for curbing environmental impact generated upstream or downstream by production and service activities	0	567	
(3)	Environmental conservation costs related to administrative activities	0	705	
(4)	Environmental conservation costs related to R&D activities	81	2,000	
(5)	Environmental conservation costs related to social activities	0	128	
(6)	Costs related to environmental damage	0	859	
Total		16,427	25,922	

(Unit: ¥ million)

Economic benefit associated with environmental conservation activities	
Effect	Value
Income from company-owned forests in Japan	602
Cost reductions through energy conservation	2,125
Income from recycling	1,298
Total	4,025

Method and scope of data aggregation

- Data aggregation was performed in accordance with the *Environmental Accounting Guidelines* published by Japan's Ministry of the Environment.
- Companies covered: Oji Paper and its main affiliates (Oji Paperboard, Oji Specialty Paper, Oji Nepia, Oji Chiyoda Container, Mori Shigyo Group's main mills, Oji Cornstarch, and Oji Tac)
- Period covered: April 1, 2009 – March 31, 2010

Environmental impact on water					Environmental impact on the atmosphere			Industrial waste		
Water consumption	Wastewater	COD	BOD	SS	Sulfur oxides	Nitrogen oxides	Soot	Volume generated	Final disposal amount	Final disposal rate
					SOx	NOx				
Thousand tons	Thousand tons	Tons	Tons	Tons	Tons-SO ₂	Tons-NO ₂	kg	AD tons	AD tons	%
456,244	442,763	23,609	3,566	11,770	5,151	8,324	346,506	1,110,835	81,996	7.4
102,632	97,101	1,273	1,261	1,826	770	1,620	95,377	231,838	17,503	7.5
60,035	57,759	375	1,766	1,181	1,434	780	178,166	74,572	2,055	2.8
6,338	6,261	279	—	70	374	206	16,670	13,005	2,645	20.3
354	176	2	5	3	69	39	4,226	87,853	828	0.9
202	148	1	9	2	74	40	8,470	74,788	453	0.6
1,755	1,641	148	—	9	70	12	9,200	443	238	53.7
42	16	—	—	—	0	0	0	8,758	25	0.3
9,805	9,506	52	78	39	5	39	2,600	3,073	319	10.4
—	—	10	—	6	0	7	0	2,682	49	1.8
219	219	—	0	0	0	1	31	3,037	16	0.5
7	6	—	—	—	—	—	—	1,189	107	9.0
4	2	—	0	—	5	1	1,360	7,084	39	0.6
515	443	2	1	1	13	15	468	22,188	606	2.7
638,153	616,044	25,750	6,686	14,907	7,963	11,083	663,074	1,641,344	106,878	6.5

- Hyphen indicates no data.
- Oji Paperboard Co., Ltd. Kushiro Mill data is included in Oji Paper Co., Ltd. Kushiro Mill.

■ Accident Record (April 1, 2009 – June 30, 2010)

Date of occurrence, mill	Status and cause	Measures
October 22, 2009 Oji Paperboard Co., Ltd. Fuji Mill	Explosion occurred during ignition and pressurizing of boiler; portion of insulating material was scattered outside mill. No injuries resulted. Suspected cause is vaporization of startup-use A heavy oil due to incomplete combustion, followed by explosion of gas in air.	a. Strengthening of boiler status monitoring (installation of monitoring cameras in furnace) b. Prevention of ash accumulation (via thorough cleaning)
April 18, 2010 Oji Paper Co., Ltd. Yonago Mill	Ash removal conveyor belt in boiler's electric dust collector stopped; soot (salt cake) accumulated in dust collector and was emitted from the chimney. Soot dispersed widely due to late emergency response (boiler load reduction and equipment shutdown).	a. Improvement of conveyer drive shaft b. External alarm on soot meter for dust collector abnormalities c. Re-evaluation of response procedures and employee training for abnormalities (decision standards for equipment shutdown, etc.)

■ Explanation of terms

SOx (sulfur oxides): Oxides of sulfur included in the exhaust gas from boilers, incinerators, and other combustion equipment, with sulfur oxide as the principal component.

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

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

BOD (biochemical oxygen demand): The amount of oxygen consumed when microorganisms decompose organic compounds in water. BOD is an indicator of the amount of biodegradable organic compounds in wastewater.

COD (chemical oxygen demand): The amount of oxygen consumed to decompose organic compounds in water through oxidation.

SS (suspended solids): Insoluble material in wastewater.