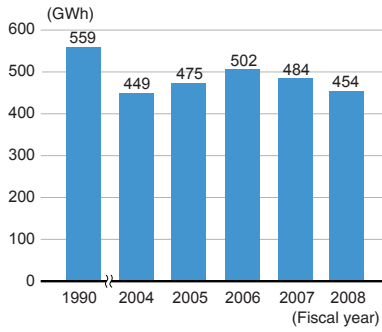
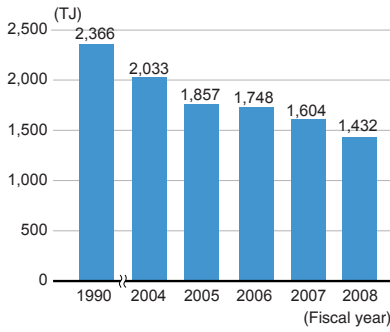


Changes in energy use by type (total for main YKK Group production sites in Japan)

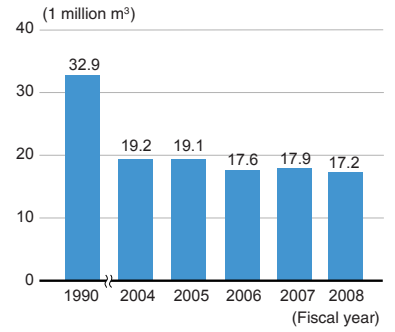
Electric power



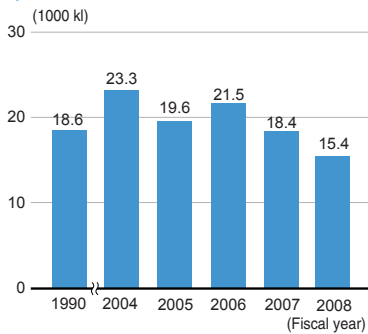
Fuel total (energy equivalent)



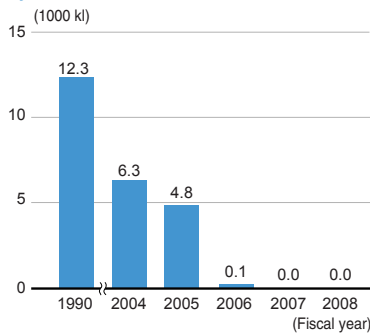
Water



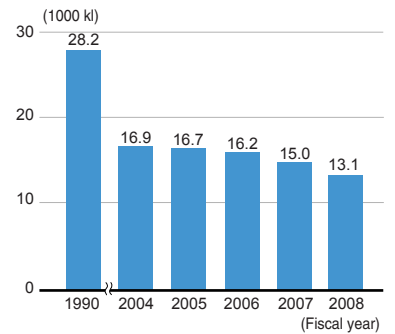
Heavy oil A



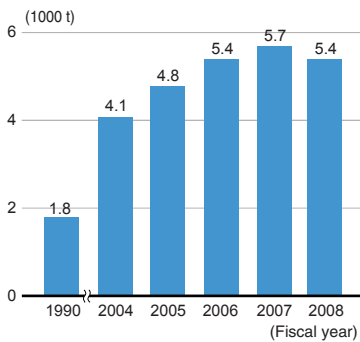
Heavy oil C



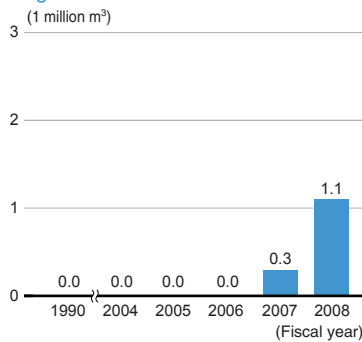
Kerosene



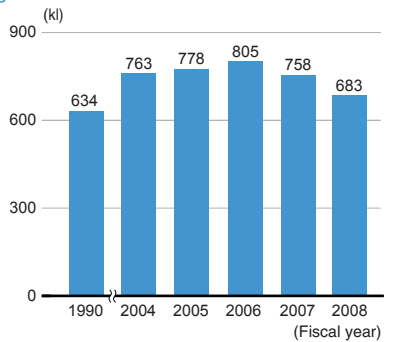
LPG



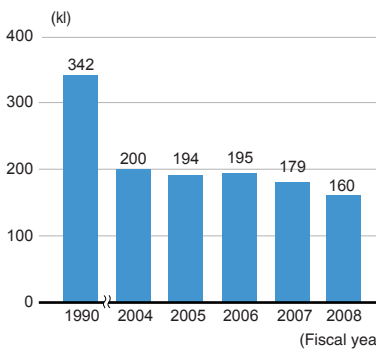
Natural gas



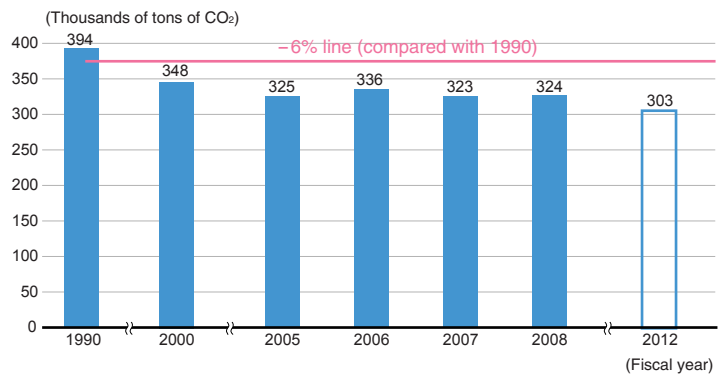
Light oil



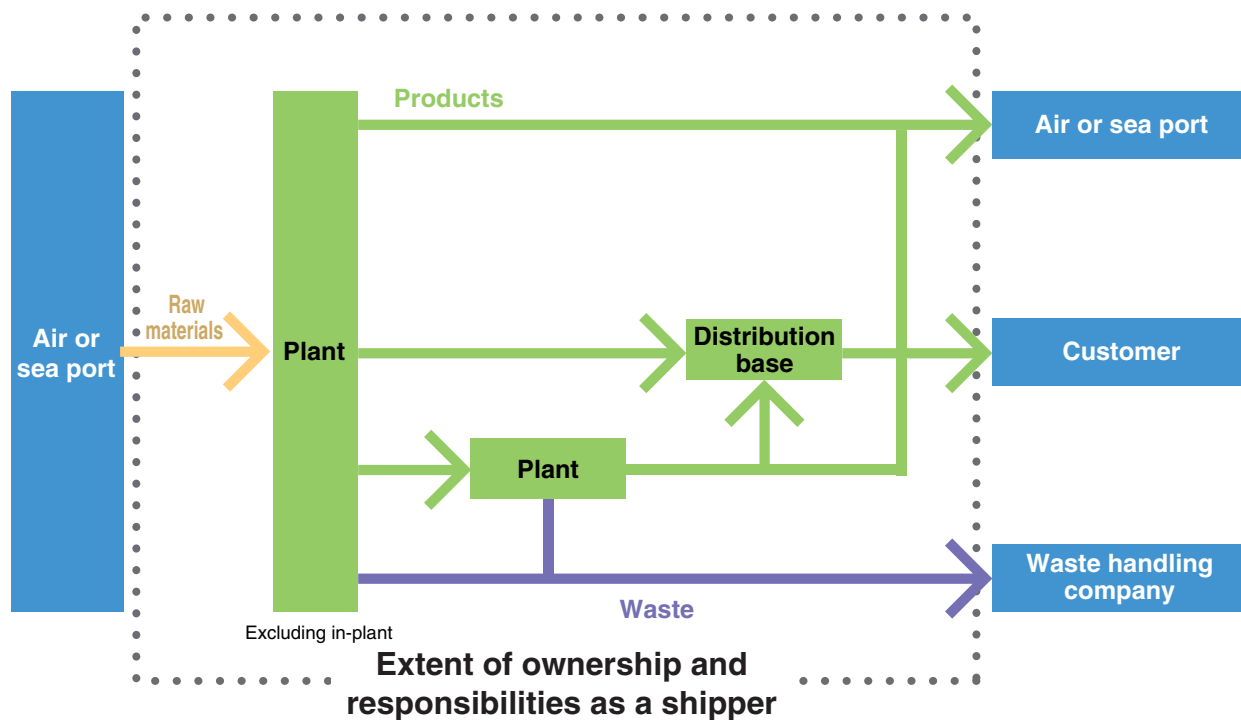
Gasoline



Amount of CO<sub>2</sub> emissions



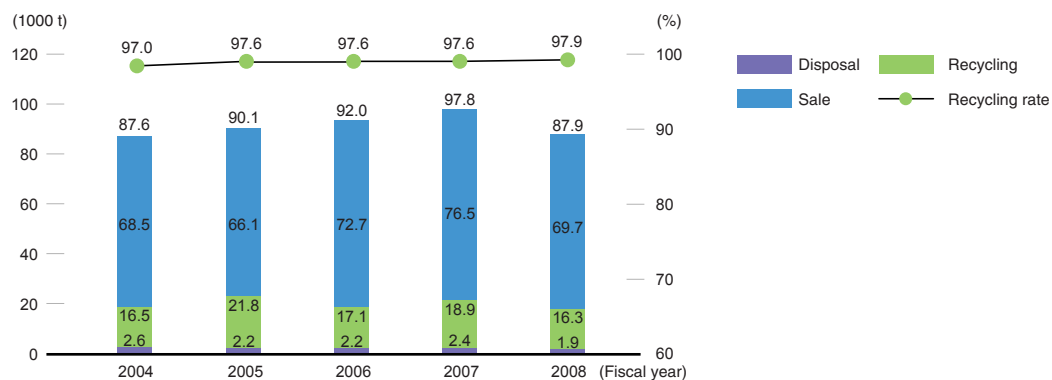
Extent of responsibility and results related to transportation amounts as a shipper



	Fiscal 2008	Specified shipper
YKK	11.68 million ton-km	No
YKK AP	190.03 million ton-km	Yes

Specified shipper: A company that consigns cargo transport of 30 million ton-km or more a year within its business operations

### Changes in waste production and recycling rate



### Environmental data for YKK Group main production sites in Japan (fiscal 2008 results)

	Electric power (1000 kWh)	Fuel (GJ)	CO <sub>2</sub> (t)	Total emissions (t)	Amount recycled (t)	Recycling rate (%)	Amount of paper used (t)	Amount of water used (1000 m <sup>3</sup> )
YKK Corporation Kurobe Plant	91,206	231,167	66,117	5,877	5,865	99.8%	56.5	4,447
YKK Corporation Kurobe Makino Plant	32,516	23,254	19,546	1,088	1,070	98.4%	0.6	1,000
YKK AP Inc. Kurobe Materials Manufacturing Plant	99,491	428,580	83,963	16,372	15,892	97.1%	17.9	4,203
YKK AP Inc. Kurobe Ekko Manufacturing Plant	23,840	32,592	15,449	2,157	2,141	99.3%	15.4	576
YKK AP Inc. Kurobe Ogyu Manufacturing Plant	17,143	13,366	10,422	1,668	1,664	99.8%	24.0	171
YKK AP Inc. Namerikawa Plant	12,215	34,066	8,985	3,598	3,567	99.1%	27.3	139
YKK AP Inc. Tohoku Plant	76,984	268,027	54,510	21,082	20,749	98.4%	22.0	3,730
YKK AP Inc. Shikoku Plant	45,550	175,758	29,050	11,331	11,245	99.2%	17.0	851
YKK AP Inc. Kyushu Plant	51,394	225,110	34,613	11,677	11,649	99.8%	24.0	1,989

Atmosphere

Equipment	Plant	Soot [g/Nm <sup>3</sup> ]					Nitrogen oxides [ppm]				
		National emissions standard	Municipal agreed value	Voluntary emissions standard	Highest value measured in fiscal 2008	Assessment	National emissions standard	Municipal agreed value	Voluntary emissions standard	Highest value measured in fiscal 2008	Assessment
Boilers	Tohoku	0.25	0.20	0.19	0.07	Acceptable	230	230	225	110	Acceptable
	Kurobe	0.30	—	0.28	<0.01	Acceptable	180	—	175	100	Acceptable
	Shikoku	0.10	—	0.09	0.002	Acceptable	150	—	135	40	Acceptable
	Kyushu	0.30	0.30	0.29	0.037	Acceptable	250	170	160	53	Acceptable
Foundry melting furnaces	Tohoku	0.30	0.10	0.09	0.05	Acceptable	200	200	195	91	Acceptable
	Kurobe	0.20	—	0.10	<0.01	Acceptable	180	—	120	70	Acceptable
	Shikoku	0.20	—	0.18	0.007	Acceptable	200	—	180	72	Acceptable
	Kyushu	0.30	0.30	0.29	<0.004	Acceptable	200	170	160	43	Acceptable
Foundry heat treatment furnaces	Tohoku	0.25	—	0.23	<0.01	Acceptable	180	180	180	120	Acceptable
Foundry holding furnaces	Tohoku	0.25	—	0.23	0.002	Acceptable	180	180	175	150	Acceptable
	Kurobe	0.25	—	0.23	<0.01	Acceptable	180	—	175	100	Acceptable
	Shikoku	0.25	—	0.20	0.02	Acceptable	180	—	170	160	Acceptable
	Kyushu	0.20	0.01	0.009	<0.004	Acceptable	150	150	140	37	Acceptable
Extrusion heat processing furnaces	Tohoku	0.25	—	0.23	<0.01	Acceptable	180	180	175	48	Acceptable
	Kurobe	0.20	—	0.19	<0.01	Acceptable	180	—	175	56	Acceptable
	Shikoku	0.20	—	0.18	0.05	Acceptable	180	—	160	120	Acceptable
	Kyushu	0.2 – 0.25	0.03	0.02	<0.004	Acceptable	180	150	140	46	Acceptable
Surface processing drying furnaces	Tohoku	0.25	—	0.23	<0.01	Acceptable	230	230	225	34	Acceptable
	Kurobe	0.20	—	0.19	<0.01	Acceptable	230	—	175	40	Acceptable
	Shikoku	0.20	—	0.18	0.011	Acceptable	230	—	200	48	Acceptable
	Kyushu	0.20	0.10	0.05	<0.004	Acceptable	230	150	140	32	Acceptable

Water quality

Unit: mg/L (except pH)

Item	Plant	National water emission standard	Prefectural water emission standard	Municipal agreed value	Voluntary management standard	Highest value measured in fiscal 2008	Assessment
pH	Tohoku	5.8 – 8.6 *1	5.8 – 8.6	6.5 – 8.5	6.7 – 8.0	6.7 – 7.9	Acceptable
	Kurobe	5.8 – 8.6 *1	5.8 – 8.6	6.0 – 8.4	6.1 – 8.3	6.2 – 7.7	Acceptable
	Shikoku	5.8 – 8.6 *1	5.8 – 8.6	—	6.0 – 8.6	6.7 – 8.2	Acceptable
	Kyushu	5.0 – 9.0 *2	5.0 – 9.0	5.8 – 8.6	6.0 – 8.0	6.9 – 7.3	Acceptable
BOD	Tohoku	120 *3	120	20	12.5	16.0	Over the voluntary management standard
	Kurobe	120 *3	15/10	15/10	10	10.0	Acceptable
COD	Shikoku	120 *4	25	—	20	15.0	Acceptable
	Kyushu	120 *4	120	20	15	12.5	Acceptable
Suspended solids	Tohoku	150	150	20	10	6.4	Acceptable
	Kurobe	150	120/100	50	5	21	Over the voluntary management standard
	Shikoku	150	25	—	20	16	Acceptable
	Kyushu	150	150	20	9	13	Over the voluntary management standard
Oil	Tohoku	5	5	1	1	0.4	Acceptable
	Kurobe	5	—	3	<0.5	0.6	Over the voluntary management standard
	Shikoku	5	3	—	2.7	2.5	Acceptable
	Kyushu	5	5	5	1.0	<0.5	Acceptable
Cyanide	Kurobe	1	—	—	<0.01	0.01	Over the voluntary management standard
Nitrogen	Shikoku	—	60	—	35	12	Acceptable
	Kyushu	—	—	—	15	9.1	Acceptable
Phosphorus	Shikoku	—	8 *5	—	2	<0.05	Acceptable
	Kyushu	—	—	—	0.5	0.42	Acceptable
Hexavalent chromium compounds	Kurobe	0.5	—	0.1	<0.02	<0.02	Acceptable
	Kyushu	0.5	—	0.04	0.005	<0.005	Acceptable

\* 1 and 3 are standards for emissions into rivers. \* 2, 4 and 5 are standards for emissions into the ocean.

## Noise

Unit: db

Plant	Type	Prefectural standard	Municipal agreement on pollution control	Voluntary standard	Highest value measured in fiscal 2008	Assessment
Tohoku	Daytime (8:00 – 19:00)	—	60	60	54	Acceptable
Tohoku	Morning (6:00 – 8:00) Evening (19:00 – 22:00)	—	55	55	55	Acceptable
Tohoku	Nighttime (22:00 – 6:00)	—	50	50	50	Acceptable
Kurobe	Daytime (8:00 – 19:00)	70	60	60	58	Acceptable
Kurobe	Morning (6:00 – 8:00) Evening (19:00 – 22:00)	65	55	55	54	Acceptable
Kurobe	Nighttime (22:00 – 6:00)	63	50	50	49	Acceptable
Shikoku	Daytime (8:00 – 19:00)	—	70	65	60	Acceptable
Shikoku	Morning (6:00 – 8:00) Evening (19:00 – 22:00)	—	65	60	58	Acceptable
Shikoku	Nighttime (22:00 – 6:00)	—	65	60	54	Acceptable

\* The Kyushu Plant is outside the designated area.

## Dioxins

Equipment	Plant	Atmosphere (unit: ng-TEQ/m <sup>3</sup> N)		Assessment	Water quality (unit: pg-TEQ/m <sup>3</sup> N)		Assessment
		Emissions standard	Highest value measured in fiscal 2008		Emissions standard	Highest value measured in fiscal 2008	
Aluminum melting furnaces	Tohoku	5	0.00039	Acceptable	—	—	—
	Kurobe	5	0.25	Acceptable	10	0.00093	Acceptable
	Shikoku	5	0.011	Acceptable	—	—	—
	Kyushu	5	0.0031	Acceptable	—	—	—

PRTR calculations (YKK Group main production sites in Japan)

Unit: t (Dioxins: mg-TEQ)

Substance number	Substance	Volume handled	Atmospheric emissions	Public water emissions	Soil emissions	Landfill amount	Transfer to sewer system	Transfer amount	Consumption	Disposal
1	Zinc water-soluble compounds	3.3	0.0	0.0	0.0	0.0	0.0	1.7	1.6	0.0
9	Adipic acid bis (2-ethylhexyl)	10.1	0.0	0.0	0.0	0.0	0.0	0.0	10.1	0.0
25	Antimony and antimony compounds	3.8	0.0	0.0	0.0	0.0	0.0	0.1	3.7	0.0
30	Solid bis phenol-A epoxy resins	1.4	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.0
40	Ethylbenzene	11.1	9.0	0.0	0.0	0.0	0.0	0.3	0.0	1.7
43	Ethylene glycol	7.7	0.0	0.1	0.0	0.0	0.0	1.1	6.1	0.4
63	Xylene	163.9	41.6	0.0	0.0	0.0	0.0	1.7	21.1	99.5
68	Chromium compounds	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0
69	Chromium and hexavalent chromium compounds	1.0	0.0	0.0	0.0	0.0	0.0	0.8	0.3	0.0
100	Cobalt and cobalt compounds	11.1	0.0	1.1	0.0	0.0	0.0	0.3	9.7	0.0
108	Cyanide	31.2	0.1	0.0	0.0	0.0	0.0	0.1	0.0	31.0
145	Dichloromethane	40.6	35.8	0.0	0.0	0.0	0.0	4.8	0.0	0.0
172	Dimethylformamide	127.2	127.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179	Dioxins (mg-TEQ)	—	31.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0
227	Toluene	136.0	102.4	0.0	0.0	0.0	0.0	0.8	29.4	3.4
231	Nickel	181.4	0.5	0.1	0.0	0.0	0.0	0.2	180.6	0.0
232	Nickel compounds	26.5	0.0	2.5	0.0	0.0	0.0	0.8	23.1	0.0
272	Bis-2-ethylhexyl phthalate	737.9	0.0	0.0	0.0	0.0	0.0	1.0	736.9	0.0
273	N-butyl benzyl phthalate	10.2	0.0	0.0	0.0	0.0	0.0	1.4	8.8	0.0
304	Boron and boron compounds	14.7	0.0	7.7	0.0	0.0	0.0	2.5	4.6	0.0
311	Manganese and manganese compounds	117.0	0.1	0.0	0.0	0.0	0.0	2.1	114.8	0.0
2-78	Methylenebis (4,2-phenylene) = diisocyanate	309.9	0.0	0.0	0.0	0.0	0.0	14.1	295.8	0.0

\* Calculations for substances of which we handle 1 ton or more per year (for Class I Designated Chemical Substances, the amount is 0.5 tons per year, with the exception of dioxins) at our domestic plants.

\* Consumption amount: the amount consumed as a raw material and the amount contained in products or the amount sold and recycled

\* Disposal amount: the amount that has been transformed into other substances by incineration, reactive processing and other methods

Groundwater inspections (Kurobe area)

	Substance	Unit	* Environmental standard	Measurement results			
				Fiscal 2005	Fiscal 2006	Fiscal 2007	Fiscal 2008
Volatile organic compounds	Dichloromethane	mg/l	≤0.02	<0.002	<0.002	<0.002	<0.002
	Carbon tetrachloride	mg/l	≤0.002	<0.0002	<0.0002	<0.0002	<0.0002
	1,1-Dichloroethylene	mg/l	≤0.02	<0.002	<0.002	<0.002	<0.002
	Cis-1,2-Dichloroethylene	mg/l	≤0.04	<0.004	<0.004	<0.004	<0.004
	1,1,1-Trichloroethane	mg/l	≤1	<0.001	<0.001	<0.001	<0.001
	Trichloroethylene	mg/l	≤0.03	<0.001	<0.001	<0.001	<0.001
	Tetrachloroethylene	mg/l	≤0.01	<0.001	<0.001	<0.001	<0.001
Heavy metals	Cadmium	mg/l	≤0.01	<0.001	<0.001	<0.001	<0.001
	Cyanide	mg/l	Undetected	<0.01	<0.01	<0.01	<0.01
	Lead	mg/l	≤0.01	<0.005	<0.005	<0.005	<0.005
	Hexavalent chromium	mg/l	≤0.05	<0.02	<0.02	<0.02	<0.02
	Selenium	mg/l	≤0.01	<0.001	<0.001	<0.001	<0.001
	Fluorine	mg/l	≤0.8	<0.5	<0.5	<0.5	<0.5
	Boron	mg/l	≤1	0.04	0.05	0.04	0.04

\* Environmental standard: Keeping the amount less than this standard is desirable for preservation of human health and protection of the human environment.