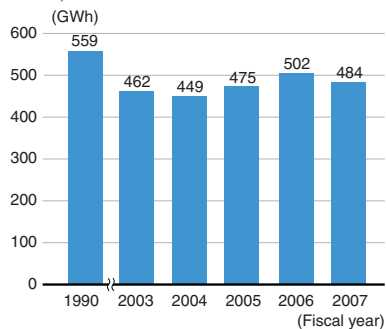
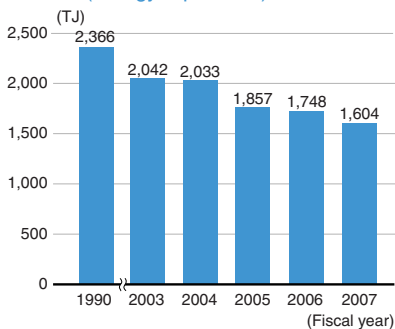


Changes in energy use by type (total for main YKK Group production sites in Japan)

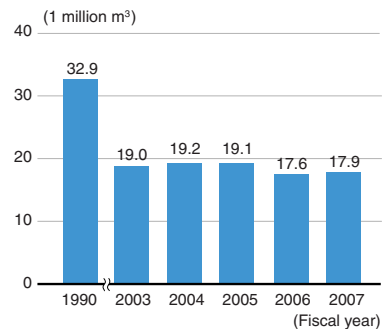
Electric power



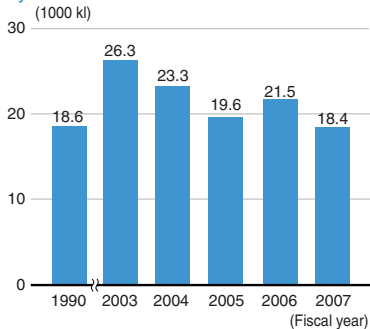
Fuel total (energy equivalent)



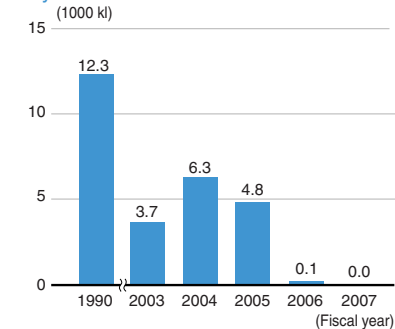
Water



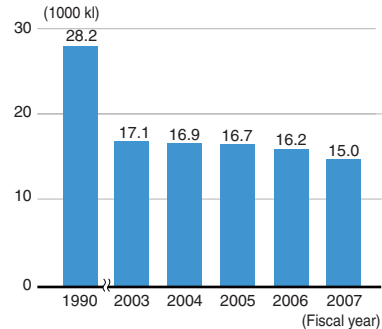
Heavy oil A



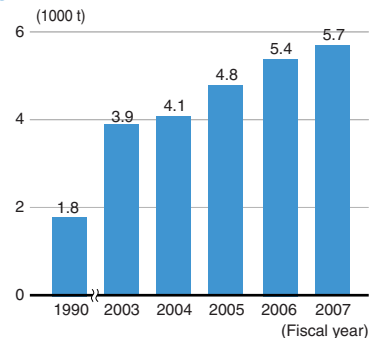
Heavy oil C



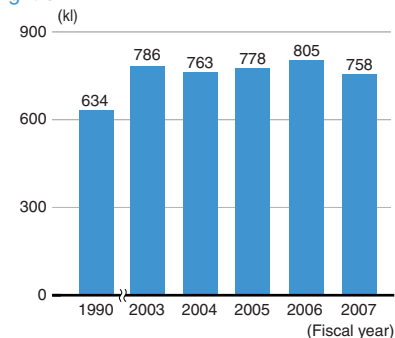
Kerosene



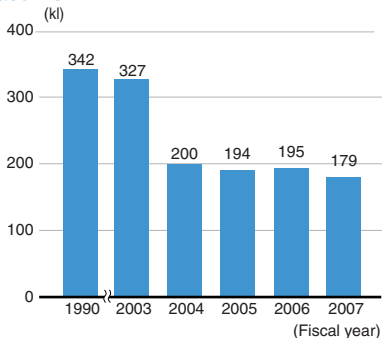
LPG



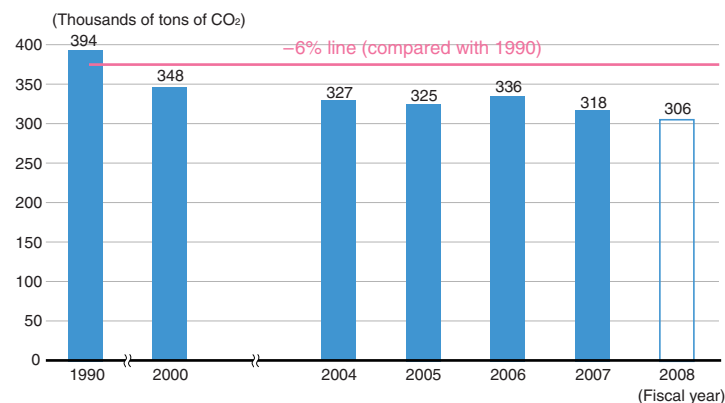
Light oil



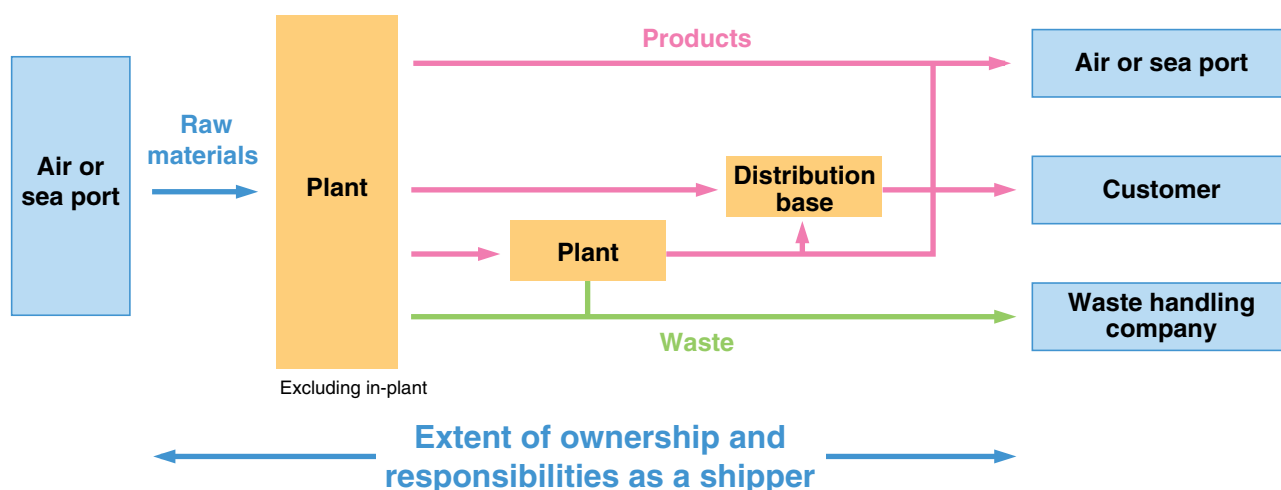
Gasoline



Amount of CO₂ emissions



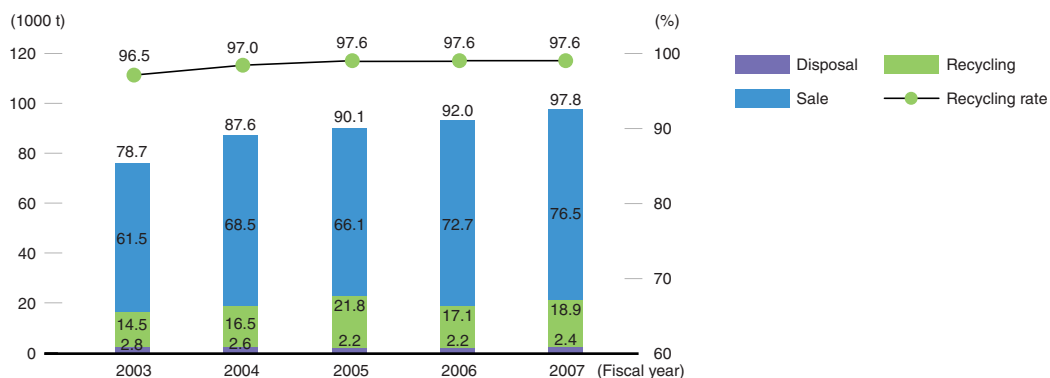
Extent of responsibility and results related to transportation amounts as a shipper



	Fiscal 2007	Specified shipper
YKK	13.78 million ton-km	No
YKK AP	215.4 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 2007 results)

	Electric power (1000 kWh)	Fuel (GJ)	CO ₂ (t)	Total emissions (t)	Amount recycled (t)	Recycling rate (%)	Amount of paper used (t)	Amount of water used (1000 m ³)
YKK Corporation Kurobe Plant	97,481	233,234	60,230	8,603	8,581	99.7%	78.1	2,088
YKK Corporation Kurobe Makino Plant	36,193	24,871	18,140	1,255	1,234	98.3%	0.6	1,050
YKK AP Inc. Kurobe Materials Manufacturing Plant	101,865	437,567	75,978	14,897	14,628	98.2%	16.3	7,062
YKK AP Inc. Kurobe Ekko Manufacturing Plant	26,245	43,686	14,982	2,645	2,643	99.9%	10.5	629
YKK AP Inc. Kurobe Ogyu Manufacturing Plant	17,820	15,476	9,194	1,156	1,153	99.7%	34.2	201
YKK AP Inc. Namerikawa Plant	11,475	30,103	7,232	2,196	2,180	99.3%	30.5	205
YKK AP Inc. Tohoku Plant	82,353	293,613	56,159	21,857	21,472	98.2%	25.0	3,590
YKK AP Inc. Shikoku Plant	52,268	233,200	34,976	15,774	15,680	99.4%	34.0	1,093
YKK AP Inc. Kyushu Plant	52,542	287,754	38,516	12,341	12,307	99.7%	24.0	1,961

Atmosphere

Equipment	Plant	Soot [g/Nm ³]					Nitrogen oxides [ppm]				
		National emissions standard	Municipal agreed value	Voluntary emissions standard	Highest value measured in fiscal 2007	Assessment	National emissions standard	Municipal agreed value	Voluntary emissions standard	Highest value measured in fiscal 2007	Assessment
Boilers	Tohoku	0.25	0.20	0.19	0.07	Acceptable	230	230	225	109	Acceptable
	Kurobe	0.30	—	0.28	<0.01	Acceptable	180	—	—	89	Acceptable
	Shikoku	0.30	—	0.25	0.03	Acceptable	250	—	225	140	Acceptable
	Kyushu	0.30	0.30	0.29	0.07	Acceptable	250	170	160	64	Acceptable
Foundry melting furnaces	Tohoku	0.30	0.10	0.09	0.05	Acceptable	200	200	195	97	Acceptable
	Kurobe	0.20	—	0.10	<0.01	Acceptable	180	—	120	84	Acceptable
	Shikoku	0.20	—	0.18	0.05	Acceptable	200	—	180	110	Acceptable
	Kyushu	0.30	0.30	0.29	<0.004	Acceptable	200	170	160	49	Acceptable
Foundry heat treatment furnaces	Tohoku	0.25	—	0.23	0.001	Acceptable	180	180	180	150	Acceptable
Foundry holding furnaces	Tohoku	0.25	—	0.23	0.009	Acceptable	180	180	175	150	Acceptable
	Kurobe	0.20	—	0.23	0.01	Acceptable	180	—	175	88	Acceptable
	Shikoku	0.20	—	0.18	0.01	Acceptable	180	—	160	120	Acceptable
	Kyushu	0.20	0.01	0.009	<0.004	Acceptable	150	150	140	47	Acceptable
Extrusion heat processing furnaces	Tohoku	0.25	—	0.23	0.001	Acceptable	180	180	175	45	Acceptable
	Kurobe	0.20	—	0.19	<0.01	Acceptable	180	—	175	140	Acceptable
	Shikoku	0.20	—	0.18	0.024	Acceptable	180	—	160	75	Acceptable
	Kyushu	0.20	0.03	0.02	<0.004	Acceptable	180	150	140	65	Acceptable
Surface processing drying furnaces	Tohoku	0.25	—	0.23	0.002	Acceptable	230	230	225	36	Acceptable
	Kurobe	0.20	—	0.19	<0.01	Acceptable	230	—	175	25	Acceptable
	Shikoku	0.20	—	0.18	0.01	Acceptable	230	—	200	52	Acceptable
	Kyushu	0.20	0.10	0.05	<0.004	Acceptable	230	150	140	31	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 2007	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	6.3 – 7.3	Acceptable
	Shikoku	5.0 – 9.0*2	5.0 – 9.0	—	6.0 – 8.6	6.5 – 7.6	Acceptable
	Kyushu	5.0 – 9.0*2	5.0 – 9.0	5.8 – 8.6	5.9 – 8.5	6.9 – 7.3	Acceptable
BOD	Tohoku	120*3	120	20	12.5	18.0	Over the voluntary management standard
	Kurobe	120*3	15/10	15/10	10	10.0	Acceptable
COD	Shikoku	120*4	25	—	20	14.0	Acceptable
	Kyushu	120*4	120	20	19.5	10.0	Acceptable
Suspended solids	Tohoku	150	150	20	10	6.6	Acceptable
	Kurobe	150	120/100	50	30	20	Acceptable
	Shikoku	150	25	—	20	4	Acceptable
	Kyushu	150	150	20	19	2	Acceptable
Oil	Tohoku	5	5	1	1	0.4	Acceptable
	Kurobe	5	15	3	1	0.6	Acceptable
	Shikoku	5	3	—	2.7	1.0	Acceptable
	Kyushu	5	5	5	4.5	<0.5	Acceptable
Cyanide	Kurobe	1	0.3	0.1	0.05	Undetected	Acceptable
Nitrogen	Shikoku	60	—	—	35	11	Acceptable
	Kyushu	60	—	—	50	6.1	Acceptable
Phosphorus	Shikoku	8*5	—	—	2	<0.05	Acceptable
	Kyushu	8*6	—	—	7	0.005	Acceptable
Hexavalent chromium compounds	Kurobe	0.5	—	0.1	Undetected	<0.02	Over the voluntary management standard
	Kyushu	0.5	0.05	0.04	0.04	<0.005	Acceptable

* 1 and 3 are standards for emissions into rivers * 2, 4, 5 and 6 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 2007	Assessment
Tohoku	Daytime (8:00–19:00)	—	60	60	57	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	59.6	Acceptable
Kurobe	Morning (6:00–8:00) Evening (19:00–22:00)	65	55	55	53.8	Acceptable
Kurobe	Nighttime (22:00–6:00)	63	50	49.1	50.8	Over the agreed value
Shikoku	Daytime (8:00–19:00)	—	70	65	61	Acceptable
Shikoku	Morning (6:00–8:00) Evening (19:00–22:00)	—	65	60	59	Acceptable
Shikoku	Nighttime (22:00–6:00)	—	65	60	55	Acceptable

* The Kyushu Plant is outside the designated area

Dioxins

Equipment	Plant	Atmosphere (unit: ng-TEQ/m ³ N)		Assessment	Water quality (unit: pg-TEQ/m ³ N)		Assessment
		Emissions standard	Highest value measured in fiscal 2007		Emissions standard	Highest value measured in fiscal 2007	
Aluminum melting furnaces	Tohoku	5	0.0009	Acceptable	—	—	—
	Kurobe	5	0.055	Acceptable	10	0.014	Acceptable
	Shikoku	5	0.029	Acceptable	—	—	—
	Kyushu	5	0.0053	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	Transfer to sewer system	Consumption	Disposal	Amount transferred out of business places
1	Zinc compounds	4.0	0.0	0.0	0.0	0.0	2.1	0.0	1.9
9	Adipic acid bis (2-ethylhexyl)	7.3	0.0	0.0	0.0	0.0	7.3	0.0	0.0
25	Antimony and antimony compounds	5.6	0.0	0.0	0.0	0.0	5.3	0.0	0.3
30	Solid bis phenol-A epoxy resins	1.5	0.0	0.0	0.0	0.0	1.1	0.0	0.5
40	Ethylbenzene	8.4	6.5	0.0	0.0	0.0	0.0	1.8	0.2
43	Ethylene glycol	8.6	0.0	0.3	0.0	0.0	6.5	0.1	1.7
63	Xylene	188.4	43.6	0.0	0.0	0.0	26.1	117.6	1.2
69	Hexavalent chromium compounds	0.8	0.0	0.0	0.0	0.0	0.2	0.0	0.6
100	Cobalt and cobalt compounds	14.3	0.0	1.0	0.0	0.0	12.5	0.0	0.8
108	Cyanide	42.8	0.1	0.0	0.0	0.0	0.0	42.6	0.0
145	Dichloromethane	51.1	42.9	0.0	0.0	0.0	0.0	0.0	8.2
172	Dimethylformamide	85.5	85.5	0.0	0.0	0.0	0.0	0.0	0.0
179	Dioxins (mg-TEQ)	-	5.7	0.0	0.0	0.0	0.0	0.0	0.5
227	Toluene	125.4	90.9	0.0	0.0	0.0	30.3	3.4	0.9
230	Lead compounds	3.5	0.0	0.0	0.0	0.0	2.2	0.0	1.3
231	Nickel	185.8	0.5	0.1	0.0	0.0	185.0	0.0	0.2
232	Nickel compounds	32.8	0.0	2.3	0.0	0.0	28.0	0.0	2.4
266	Phenol	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
270	Di-n-butyl phthalate	6.8	0.2	0.0	0.0	0.0	6.5	0.0	0.2
272	Bis-2-ethylhexyl phthalate	841.8	0.0	0.0	0.0	0.0	839.6	0.0	2.2
304	Boron and boron compounds	18.4	0.0	6.4	0.0	0.0	8.1	0.0	3.8
311	Manganese and manganese compounds	98.9	0.1	0.0	0.0	0.0	96.5	0.0	2.3
2-79	Methylenebis (4,2-phenylene) = diisocyanate	355.7	0.0	0.0	0.0	0.0	334.0	0.0	21.7

* 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

* Transfer amount: the amount that has been consigned to an industrial waste management company for disposal

Groundwater inspections (Kurobe area)

	Substance	Unit	* Environmental standard	Measurement results			
				Fiscal 2004	Fiscal 2005	Fiscal 2006	Fiscal 2007
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	0.04	0.05	0.04

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