Environmental Data

Material Balance

Manufacturing (Input)

	FY 2020	FY 2019	FY 2018
■ Manufacturing			
Materials*1	2,660 kt	2,820 kt	2,360 kt
Total energy input*2	1,957 10,000GJ	2,035 10,000GJ*5	1,962 10,000GJ
Electricity	1,810 GWh	1,874 GWh	1,794 GWh
Traditional electric power	1,788 GWh	1,852 GWh	1,778 GWh
Electric power from renewable energy sources	22 GWh	22 GWh	16 GWh
City gas	37,180,000 m³	39,910,000 m³	35,270,000 m³
LPG	3,617 tons	3,674 tons	3,835 tons
Oil (crude oil equivalent)	3,806 kl	3,917 kl*5	4,840 kl
Other greenhouse gases	7,611 tons	8,237 tons	7,738 tons
Water usage	15,640,000 m³	15,410,000 m³	15,610,000 m³
Intake	11,000,000 m³	10,900,000 m³	11,080,000 m³
Reuse	4,650,000 m³	4,500,000 m³	4,530,000 m³
Chemical substances			
Controlled chemical substances (amounts handled)*3	3,731 tons	4,231 tons	— tons
Volatile organic compounds	2,664 tons	2,777 tons	2,911 tons
Ozone depleting substances	181 tons	203 tons	542 tons

Average reduction rates of resource inputs*4	42 %	42 %*5	41 %*5

*1 Total value for shipping weight of products, plus amount of product packaging materials used, plus total amount of waste.

*2 Includes electricity, city gas, LPG, oil, etc.

*3 Japan: Substances subject to Japan's PRTR law. Overseas: Controlled chemical substances designated by Mitsubishi Electric and used in amounts of 18 kg or more.

*4 Average reduction rates for 64 product groups (compared to fiscal 2001)

*5 These figures have been altered in accordance with the new aggregation method.

Manufacturing (Output)

	FY 2020	FY 2019	FY 2018
■ Products			
Weight of all products sold*6	2,303 kt	2,390 kt	1,980 kt
Weight of packaging materials*7	149 kt	210 kt	160 kt
Japan	62 kt	63 kt	62 kt
Overseas	87 kt	150 kt	100 kt
■ Emissions (from manufacturing)			
Emissions into the atmosphere			
Greenhouse gas emissions (CO_2-equivalent)	1,236 kt-CO_2	1,290 kt-CO_2*5	1,270 kt-CO_2
CO_2*8	1,086 kt-CO_2	1,130 kt-CO_2	1,080 kt-CO_2
Other greenhouse gases*9	150 kt-CO_2	160 kt-CO_2*5	190 kt-CO_2
Chemical substances			
Controlled chemical substances*3	791 tons	881 tons	963 tons
Volatile organic compounds	946 tons	999 tons	1,049 tons
Ozone depleting substances (ODP tons)	0.2 tons	0.1 tons	0.2 tons
NOx	83 tons	— tons	0.6 tons
SOx	1.0 tons	— tons	655 tons
Discharge into water			
Water	8,620,000 m³	8,580,000 m³*5	9,570,000 m³
Chemical substances			
Controlled chemical substances*3	8.0 tons	8.0 tons	14 tons
BOD	98 tons	— tons	121 tons
COD	131 tons	— tons	144 tons
■ Waste			
Emissions	210,168 tons	212,752 tons	215,590 tons
Non-hazardous waste	197,560 tons	205,530 tons	207,287 tons
Hazardous waste	12,607 tons	7,222 tons	8,303 tons
Waste treatment subcontracted out	110,954 tons	112,196 tons	113,377 tons
In-house weight reduction	550 tons	457 tons	896 tons
Amount recycled	159,340 tons	172,767 tons	162,681 tons
Final disposal	311 tons	404 tons	484 tons
Japan	16 tons	4.8 tons	3.6 tons
Overseas	295 tons	399 tons	480 tons

Final waste disposal ratio (Japan)	0.01 %	0.01 %	0.01 %
Final waste disposal ratio (Overseas)	0.4 %	0.5 %	0.6 %

*6 Shipping weight of products

*7 Total of disposable and returnable packaging materials

*8 Japan: 0.487 t-CO_2/MWh (figure published by the Federation of Electric Power Companies in 2013, when two nuclear power stations are in operation). Overseas: Calculated in reference to data published by the Japan Electrical Manufacturers' Association in 2006.

*9 Global Warming Potential (GWP) for greenhouse gases other than CO_2 is calculated in reference to data published in the IPCC 2nd Evaluation Report (1995).

Transporting (Input)

	FY 2020	FY 2019	FY 2018
■ Sales and Logistics*10			
Fuel for trucks (gasoline)	12,240 kl	12,105 kl	12,049 kl
Japan	12,134 kl	11,994 kl	12,046 kl
Overseas	106 kl	111 kl	3.0 kl
Fuel for trucks (diesel)	55,640 kl	56,613 kl	51,129 kl
Japan	32,174 kl	32,049 kl	32,161 kl
Overseas	23,466 kl	24,564 kl	18,968 kl
Fuel for rail (electricity)	1.8 GWh	1.6 GWh	1.9 GWh
Japan	1.8 GWh	1.6 GWh	1.9 GWh
Overseas	0.0 GWh	0.0 GWh	0.0 GWh
Fuel for marine transport (bunker oil)	74,323 kl	73,488 kl	63,175 kl
Japan	454 kl	428 kl	363 kl
Overseas	73,869 kl	73,060 kl	62,812 kl
Fuel for air transport (jet fuel)	17,959 kl	807 kl	31,252 kl
Japan	624 kl	678 kl	639 kl
Overseas	17,335 kl	129 kl	30,613 kl

*10 Figures for overseas affiliated companies include transportation between countries.

Transporting (Output)

	FY 2020	FY 2019*13	FY 2018
■ Emissions*11 *12			
CO_2	435 kt-CO_2	394 kt-CO_2	424 kt-CO_2
Japan	115 kt-CO_2	116 kt-CO_2	114 kt-CO_2
Overseas	320 kt-CO_2	278 kt-CO_2	310 kt-CO_2

*11 Figures for overseas affiliated companies include transportation between countries.

*12 The sum of these figures and CO_2 emissions from procurement/logistics (0.1 t-CO_2) make up Scope 3 Category 4 emissions (see next page).

*13 These figures have been altered in accordance with the new aggregation method.

Using (Input)

	FY 2020	FY 2019	FY 2018
■ Energy Consumption			
Energy consumed during product use*14	74,800 GWh	76,400 GWh	78,000 GWh

*14 Energy consumed during product use: Total energy consumed (estimated value) when using 76 finished products targeted for CO_2 reduction. The length of use (operating time) is set for each product according to statutory useful life, designed service life, statistical values, etc.

Using (Output)

	FY 2020	FY 2019	FY 2018
■ Emissions			
Greenhouse gas emissions during product usage (CO_2-equivalent)	35,870 kt-CO_2	36,620 kt-CO_2	37,360 kt-CO_2
CO_2*15	35,740 kt-CO_2	36,510 kt-CO_2	37,230 kt-CO_2
SF_6*16	130 kt-CO_2	110 kt-CO_2	130 kt-CO_2
Average reduction rate of CO_2 during product usage	37 %	36 %	35 %
Contribution to reducing CO_2 during product usage	76,000 kt-CO_2	77,000 kt-CO_2	71,000 kt-CO_2

*15 Sum of CO_2 emitted when using 76 finished products targeted for CO_2 reduction. The amount of CO_2 emitted is equal to the energy consumed multiplied by the CO_2 emissions coefficient, for which the value shown in CO_2 Emissions from Fuel Combustion Highlights (2013 Edition) is used.

*16 Sum of SF_6 gas naturally leaked during the operation of products (6) that use SF_6 gas for insulation. Leakage rate used is the value from JEAC5001-2000. Global warming potential value used is from the 2nd Revised Guidelines of the IPCC.