

Environmental Data

Material Balance

Manufacturing (Input)

	FY 2019	FY 2020	FY 2021
■ Manufacturing			
Materials*1 (Weight of all products sold + Weight of packaging materials + Waste emissions)	2,820 kt	2,660 kt	2,420 kt
Total energy input*2	2,035 10,000GJ	1,957 10,000GJ	1,866 10,000GJ
Electricity	1,874 GWh	1,810 GWh	1,733 GWh
Traditional electric power	1,852 GWh	1,788 GWh	1,708 GWh
Electric power from renewable energy sources	22 GWh	22 GWh	25 GWh
City gas	39,910,000 m ³	37,180,000 m ³	34,890,000 m ³
LPG	3,674 tons	3,617 tons	3,725 tons
Oil (crude oil equivalent)	3,917 kl	3,806 kl	2,813 kl
Other greenhouse gases	8,237 tons	7,611 tons	6,720 tons
Water usage	15,410,000 m ³	15,710,000 m ³	14,890,000 m ³
Intake	10,900,000 m ³	11,060,000 m ³	10,350,000 m ³
Reuse	4,500,000 m ³	4,650,000 m ³	4,550,000 m ³
Chemical substances			
Controlled chemical substances (amounts handled)*3	4,231 tons	3,731 tons	3,727 tons
Volatile organic compounds	2,777 tons	2,664 tons	2,408 tons
Average reduction rates of resource inputs*4	42 %	42 %	43 %

*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)

Manufacturing (Output)

	FY 2019	FY 2020	FY 2021
■ Products			
Weight of all products sold*5	2,390 kt	2,303 kt	2,111 kt
Weight of packaging materials*6	210 kt	149 kt	124 kt
Japan	63 kt	62 kt	56 kt
Overseas	150 kt	87 kt	68 kt
■ Emissions (from manufacturing)			
Emissions into the atmosphere			
Greenhouse gas emissions (CO ₂ -equivalent)	1,290 kt-CO ₂	1,236 kt-CO ₂	1,160 kt-CO ₂
CO ₂ *7	1,130 kt-CO ₂	1,086 kt-CO ₂	1,039 kt-CO ₂
Other greenhouse gases*8	160 kt-CO ₂	150 kt-CO ₂	121 kt-CO ₂
Chemical substances			
Controlled chemical substances*3	881 tons	791 tons	814 tons
Volatile organic compounds	999 tons	946 tons	792 tons
NOx	— tons	83 tons	25 tons
SOx	— tons	1.0 tons	1.0 tons
Discharge into water			
Water	8,580,000 m ³	8,640,000 m ³	8,160,000 m ³
Chemical substances			
Controlled chemical substances*3	8.0 tons	8.0 tons	8.0 tons
BOD	— tons	98 tons	101 tons
COD	— tons	131 tons	109 tons
■ Waste			
Emissions	212,752 tons	210,168 tons	187,137 tons
Non-hazardous waste	205,530 tons	197,560 tons	181,689 tons
Hazardous waste	7,222 tons	12,607 tons	5,448 tons
Waste treatment subcontracted out	112,196 tons	110,954 tons	101,605 tons
In-house weight reduction	457 tons	550 tons	757 tons
Amount recycled	172,767 tons	159,340 tons	147,258 tons
Final disposal	404 tons	311 tons	121 tons
Japan	4.8 tons	16 tons	28 tons
Overseas	399 tons	295 tons	93 tons
Final waste disposal ratio (Japan)	0.01 %	0.01 %	0.02 %
Final waste disposal ratio (Overseas)	0.5 %	0.4 %	0.2 %

*5 Shipping weight of products

*6 Total of disposable and returnable packaging materials

*7 Japan: 0.487 t-CO₂/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.

*8 Global Warming Potential (GWP) for greenhouse gases other than CO₂ is calculated in reference to data published in the IPCC 2nd Evaluation Report (1995).

Transporting (Input)

	FY 2019	FY 2020	FY 2021
■ Sales and Logistics*9			
Fuel for trucks (gasoline)	12,105 kl	12,240 kl	5,679 kl
Japan	11,994 kl	12,134 kl	5,675 kl
Overseas	111 kl	106 kl	4 kl
Fuel for trucks (diesel)	56,613 kl	55,640 kl	55,635 kl
Japan	32,049 kl	32,174 kl	41,969 kl
Overseas	24,564 kl	23,466 kl	13,666 kl
Fuel for rail (electricity)	1.6 GWh	1.8 GWh	1.4 GWh
Japan	1.6 GWh	1.8 GWh	1.4 GWh
Overseas	0.0 GWh	0.0 GWh	0.0 GWh
Fuel for marine transport (bunker oil)	73,488 kl	74,323 kl	60,037 kl
Japan	428 kl	454 kl	525 kl
Overseas	73,060 kl	73,869 kl	59,512 kl
Fuel for air transport (jet fuel)	807 kl	17,959 kl	20,833 kl
Japan	678 kl	624 kl	511 kl
Overseas	129 kl	17,335 kl	20,322 kl

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

Transporting (Output)

	FY 2019	FY 2020	FY 2021
■ Emissions*10 *11			
CO₂	394 kt-CO ₂	435 kt-CO ₂	384 kt-CO ₂
Japan	116 kt-CO ₂	115 kt-CO ₂	124 kt-CO ₂
Overseas	278 kt-CO ₂	320 kt-CO ₂	260 kt-CO ₂

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

*11 The sum of these figures and CO₂ emissions from procurement/logistics (0.1 t-CO₂) make up Scope 3 Category 4 emissions (see next page).

Using (Input)

	FY 2019	FY 2020	FY 2021
■ Energy Consumption			
Energy consumed during product use*12	76,400 GWh	74,800 GWh	75,800 GWh

*12 Energy consumed during product use: Total energy consumed (estimated value) when using 76 finished products targeted for CO₂ 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 2019	FY 2020	FY 2021
■ Emissions			
Greenhouse gas emissions during product usage (CO₂-equivalent)	36,620 kt-CO ₂	35,870 kt-CO ₂	34,740 kt-CO ₂
CO ₂ *13	36,510 kt-CO ₂	35,740 kt-CO ₂	34,660 kt-CO ₂
SF ₆ *14	110 kt-CO ₂	130 kt-CO ₂	80 kt-CO ₂
Average reduction rate of CO₂ during product usage	36 %	37 %	36 %
Contribution to reducing CO₂ during product usage	77,000 kt-CO ₂	76,000 kt-CO ₂	74,000 kt-CO ₂

*13 Sum of CO₂ emitted when using 76 finished products targeted for CO₂ reduction. The amount of CO₂ emitted is equal to the energy consumed multiplied by the CO₂ emissions coefficient, for which the value shown in CO₂ Emissions from Fuel Combustion Highlights (2013 Edition) is used.

*14 Sum of SF₆ gas naturally leaked during the operation of products (6) that use SF₆ 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.