

Main Environmental Indicators (5 Years)

Latest update: 23 June, 2025

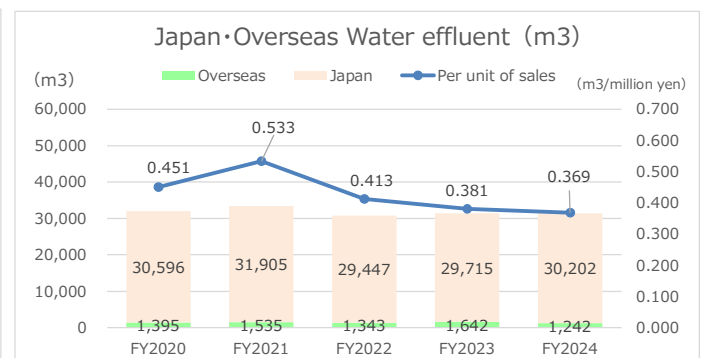
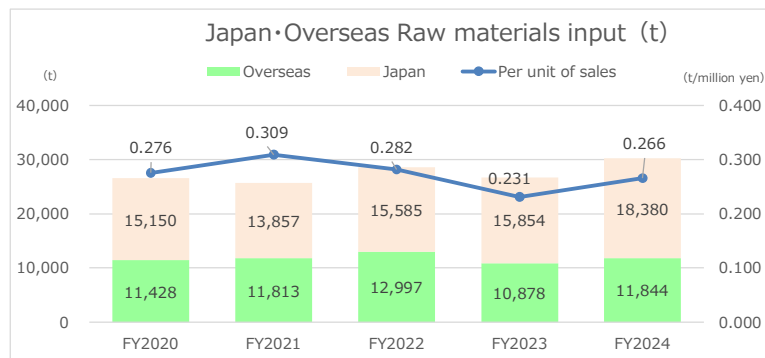
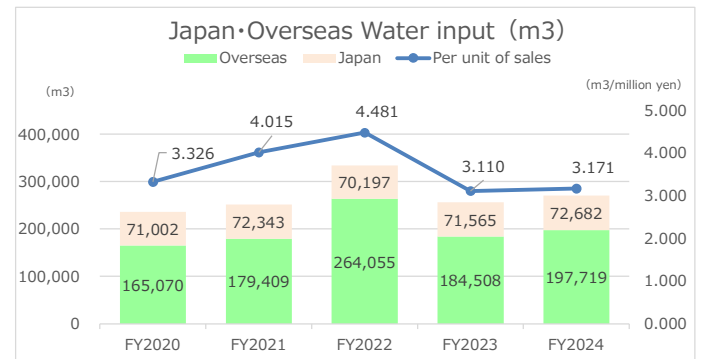
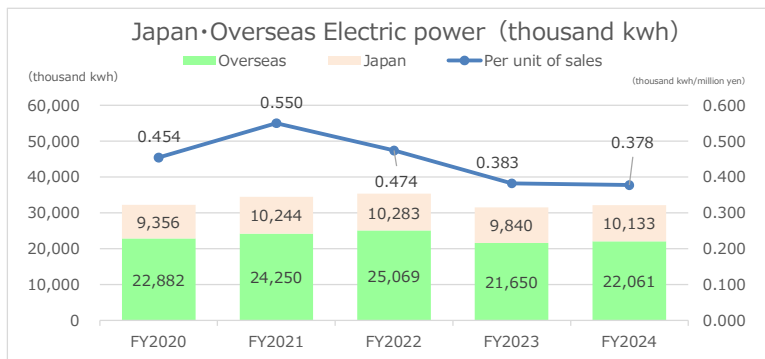
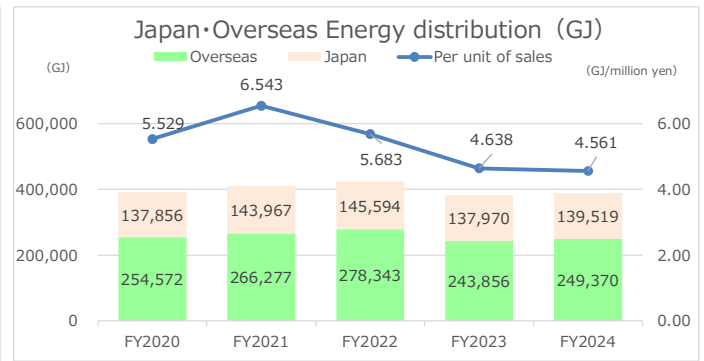
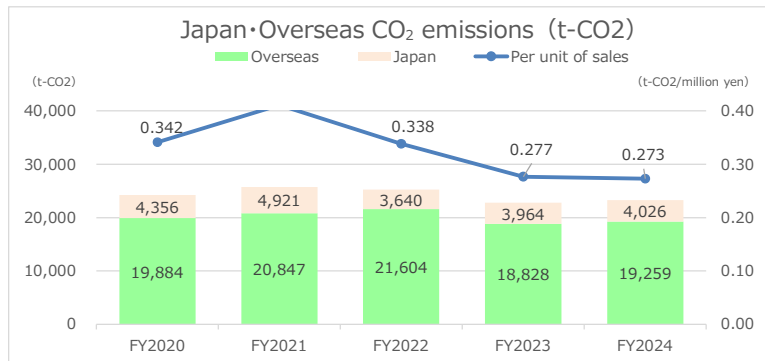
Japanese data gathered from: 1 manufacturing location, 8 non-manufacturing locations, 1 consolidated subsidiary, and 1 non-consolidated subsidiary.

Overseas data gathered from: 2 manufacturing locations, 9 consolidated subsidiaries, and 1 equity method affiliate.

Data collection period : Japan (April of the year shown to March of the following year) , Overseas (January of the year shown to December of the following year)

Per Unit of Sales (Scope 1+2)

Reporting Content	Unit	FY2020	FY2021	FY2022	FY2023	FY2024
CO2 emissions	t-CO ₂ /million yen	0.342	0.411	0.338	0.277	0.273
Japan	t-CO ₂ /million yen	0.112	0.151	0.102	0.104	0.100
Overseas	t-CO ₂ /million yen	0.619	0.693	0.556	0.425	0.429
Energy input	GJ/million yen	5.529	6.543	5.683	4.638	4.561
Japan	GJ/million yen	3.549	4.417	4.070	3.630	3.457
Overseas	GJ/million yen	7.924	8.846	7.169	5.503	5.552
Electric power	thousand kwh	0.454	0.550	0.474	0.383	0.378
Japan	thousand kwh	0.241	0.314	0.287	0.259	0.251
Overseas	thousand kwh	0.712	0.806	0.646	0.489	0.491
Water input	m ³ /million yen	3.326	4.015	4.481	3.110	3.171
Japan	m ³ /million yen	1.828	2.219	1.962	1.883	1.801
Overseas	m ³ /million yen	5.138	5.960	6.801	4.164	4.402



INPUT （Energy input, Water input, and Rawmaterials input）

Reporting Content		Unit	FY2020	FY2021	FY2022	FY2023	FY2024
INPUT							
Energy input		GJ	392,427.1	410,244.1	423,937.2	381,825.6	388,889.4
Japan		GJ	137,855.6	143,967.0	145,594.3	137,969.6	139,519.3
Overseas		GJ	254,571.5	266,277.0	278,342.9	243,856.0	249,370.1
Electric power		thousand kwh	32,238.7	34,494.6	35,352.3	31,490.2	32,194.1
Japan		thousand kwh	9,356.4	10,244.2	10,282.8	9,840.4	10,133.5
Overseas		thousand kwh	22,882.2	24,250.4	25,069.5	21,649.8	22,060.7
Gas		m ³	99,350.7	100,936.1	103,540.3	100,236.6	106,498.4
Japan		m ³	99,350.7	100,936.1	103,540.3	100,236.6	106,498.4
Overseas		m ³	18,363.0	48,106.9	46,425.4	45,322.7	45,129.2
Gasoline		k l	601.8	598.7	648.3	446.9	446.7
Japan		k l	261.3	293.6	255.9	42.7	38.3
Overseas		k l	340.6	305.1	392.4	404.2	408.4
Kerosene		k l	0.0	0.0	0.0	0.0	0.0
Japan		k l	0.0	0.0	0.0	0.0	0.0
Overseas		k l	0.0	0.0	0.0	0.0	0.0
Diesel fuel		k l	1,106.5	957.3	1,055.1	1,141.5	1,125.3
Japan		k l	734.2	639.8	702.6	808.3	757.9
Overseas		k l	372.3	317.4	352.5	333.2	367.4
Water input		m ³	236,072.0	251,752.2	334,251.9	256,073.3	270,401.1
Water supply		m ³	202,460.0	217,067.2	286,910.9	218,915.3	223,549.5
Japan		m ³	64,460.0	68,901.0	68,181.0	69,584.0	70,556.0
Overseas		m ³	138,000.0	148,166.2	218,729.9	149,331.3	152,993.5
Industrial water supply		m ³	33,612.0	34,685.0	47,341.0	37,158.0	46,851.6
Japan		m ³	6,542.0	3,442.0	2,016.0	1,981.0	2,126.0
Overseas		m ³	27,070.0	31,243.0	45,325.0	35,177.0	44,725.6
Raw materials used in products, etc.		t	19,565.6	19,387.8	21,019.1	19,031.2	22,681.9
Japan		t	8,138.0	7,575.0	8,022.2	8,153.3	10,838.2
Overseas		t	11,427.6	11,812.8	12,996.9	10,878.0	11,843.7
Packaging and container materials		t	7,011.7	6,281.8	7,562.5	7,700.5	7,542.0
Japan		t	7,011.7	6,281.8	7,562.5	7,700.5	7,542.0
Overseas		t	0.0	0.0	0.0	0.0	0.0

OUTPUT （CO2 emissions, Water effluent and Waste material）

Reporting Content		Unit	FY2020	FY2021	FY2022	FY2023	FY2024
OUTPUT							
CO2 emissions							
Scope 1+2		t-CO ₂	24,239.6	25,767.6	25,243.5	22,791.8	23,285.3
Japan		t-CO ₂	4,355.9	4,920.5	3,639.9	3,963.7	4,026.4
Overseas		t-CO ₂	19,883.7	20,847.1	21,603.5	18,828.1	19,259.0
Scope 1		t-CO ₂	2,823.2	2,765.2	2,937.3	2,421.8	2,559.6
Japan		t-CO ₂	1,142.6	1,227.0	1,132.6	640.4	672.3
Overseas		t-CO ₂	1,680.6	1,538.2	1,804.8	1,781.5	1,887.3
Scope 2		t-CO ₂	21,416.4	23,002.4	22,306.1	20,369.9	20,725.7
Japan		t-CO ₂	3,213.3	3,693.5	2,507.4	3,323.3	3,354.1
Overseas		t-CO ₂	18,203.1	19,308.9	19,798.8	17,046.6	17,371.7
Water input		m ³	31,991.1	33,439.6	30,789.6	31,356.9	31,444.1
Japan		m ³	30,596.1	31,904.6	29,446.6	29,714.9	30,202.1
Overseas *Data not extracted		m ³	1,395.0	1,535.0	1,343.0	1,642.0	1,242.0
Waste material		t	4,824.3	5,106.2	4,749.5	4,662.4	4,979.6
Japan		t	2,974.7	3,449.9	3,380.6	3,234.9	3,701.3
Overseas		t	1,849.6	1,656.3	1,368.9	1,427.5	1,278.3
Remaining waste after treatment		t	715.9	764.3	792.9	765.0	767.0
Japan		t	14.6	15.7	5.6	6.6	12.4
Overseas		t	701.2	748.6	787.3	758.4	754.6
Resource Recovery Rate		%	85.2%	85.0%	83.3%	83.6%	84.6%
Japan		%	99.5%	99.5%	99.8%	99.8%	99.7%
Overseas		%	62.1%	54.8%	42.5%	46.9%	41.0%
Sulfur oxide (SOx) emissions		kg	0.0	0.0	0.0	0.0	0.0
Japan		kg	0.0	0.0	0.0	0.0	0.0
Overseas		kg	0.0	0.0	0.0	0.0	0.0
Nitrogen oxide (NOx) emissions		kg	0.0	0.0	0.1	0.1	0.0
Japan		kg	0.0	0.0	0.0	0.0	0.0
Overseas		kg	0.0	0.0	0.1	0.1	0.0
Dust emissions		kg	0.0	0.0	0.0	0.0	0.0
Japan		kg	0.0	0.0	0.0	0.0	0.0
Overseas		kg	0.0	0.0	0.0	0.0	0.0

*1 Energy consumption calculated based on formulas in the Japanese Act on the Rational Use of Energy.

*2 Overseas CO2 emission coefficients by country are drawn from CO2 Emissions from Fuel Combustion: Highlights, 2013 Edition.

*3 From FY2017 onward, waste materials for promotional items are included in calculations.

Scope 1+2+3 emissions in Japan

Reporting Content	Unit	FY2020	FY2021	FY2022	FY2023	FY2024
CO2 emissions	t-CO ₂	240,906	210,693	181,863	184,380	203,673
Scope 1	t-CO ₂	1,143	1,227	1,133	640	672
Scope 2	t-CO ₂	3,213	3,694	2,507	3,323	3,354
Scope 3	t-CO ₂	236,550	205,772	178,223	180,416	199,647
Category 1 (Purchased goods and services)	t-CO ₂	63,602	60,803	73,012	79,645	81,645
Category 2 (Capital goods)	t-CO ₂	36,188	5,709	2,118	2,356	2,054
Category 3 (Fuel- and energy-related activities not included in Scope 1 or Scope 2)	t-CO ₂	949	1,031	851	711	744
Category 4 (Upstream transportation and distribution)	t-CO ₂	4,276	3,977	4,412	4,774	4,893
Category 5 (Waste generated in operations)	t-CO ₂	1,809	1,850	1,114	516	567
Category 6 (Business travel)	t-CO ₂	138	129	128	101	99
Category 7 (Employee commuting)	t-CO ₂	317	295	285	235	229
Category 8 (Upstream leased assets)	t-CO ₂	0	0	0	0	0
Category 9 (Downstream transportation and distribution)	t-CO ₂	474	407	455	490	510
Category 10 (Processing of sold products)	t-CO ₂	0	0	0	0	0
Category 11 (Use of sold products)	t-CO ₂	114,859	118,123	84,034	80,406	96,948
Category 12 (End-of-life treatment of sold products)	t-CO ₂	13,213	12,435	10,741	10,119	11,000
Category 13 (Downstream leased assets)	t-CO ₂	0	0	0	0	0
Category 14 (Franchises)	t-CO ₂	0	0	0	0	0
Category 15 (Investments)	t-CO ₂	723	1,014	1,073	1,063	957

※CO₂ emissions are calculated using the emission factors based on the AIST-IDEA Ver.3.5 Standard Version (April 15, 2025), developed by the IDEA Laboratory, Department of Safety Science, National Institute of Advanced Industrial Science and Technology (AIST), under the Climate Change category of IPCC 2021 GWP 100a without LULUCF.

Emissions of PRTR-listed Substances and Movement in Japan (FY2024) (Unit : t)

Designated Chemical Substance	Emissions and Movement
[(3-Alkanamidopropyl)(dimethyl)ammonio]acetate (limited to those the alkane is linear chain and C=8, 10, 12, 14, 16 or 18 and the mixture thereof) and (Z)-[[3-(octadec-9-enamido)propyl](dimethyl)ammonio]acetate and the mixture thereof	0.338
2-(N-Dodecyl-N,N-dimethylammonio)acetate	0.089
2-aminoethanol	0.003
4-Isopropyl-3-methylphenol	0.453
Polymer of acrylic acid	0.058
Alpha-Alkyl-omega-hydroxypoly(oxyethane-1,2-diyl) (limited to those the alkyl group is C=16-18 and the mixture thereof, and the number average molecular weight is less than 1,000), alpha-alkenyl-omega-hydroxypoly(oxyethane-1,2-diyl) (limited to those the alkenyl group is C=16-18 and the mixture thereof, and the number average molecular weight is less than 1,000), and the mixture thereof	0.712
Ethylenediaminetetraacetic acid and its potassium and sodium salts	0.035
sodium dodecyl sulfate	0.330
Trimethyl (octadecyl) ammonium salts	0.022
poly(oxyethylene)alkyl ether(alkyl C=12-15)	0.029
sodium poly(oxyethylene) dodecyl ether sulfate	0.441
Methyl(2-pentyl-3-oxocyclopentyl)acetate	0.112
zinc compounds(water-soluble)	0.136

Reference: Japanese CO2 emission calculation coefficient

Reporting Content	FY2020	FY2021	FY2022	FY2023	FY2024
Electric power					
Hokkaido Electric Power Co., Inc. (t-CO2/thousand kwh)	0.601	0.550	0.537	0.541	0.535
Tohoku Electric Power Co., Inc. (t-CO2/thousand kwh)	0.522	0.457	0.488	0.471	0.402
TEPCO Energy Partner, Inc. (t-CO2/thousand kwh)	0.442	0.443	0.456	0.390	0.431
CHUBU Electric Power Co., Inc. (t-CO2/thousand kwh)	0.426	0.379	0.388	0.459	0.421
The Kansai Electric Power Co., Inc. (t-CO2/thousand kwh)	0.318	0.351	0.311	0.434	0.419
The Chugoku Electric Power Co., Inc. (t-CO2/thousand kwh)	0.585	0.521	0.540	0.552	0.520
Kyushu Electric Power Co., Inc. (t-CO2/thousand kwh)	0.371	0.480	0.389	0.475	0.417
ENNET Corp. (t-CO2/thousand kwh)	0.409	0.385	0.408	0.367	0.432
Tepco Customer Service Corp. (t-CO2/thousand kwh)	0.533	0.495	0.558	0.420	0.353
Kerosene (t-CO2/kl)	2.503	2.503	2.503	2.503	2.503
LP Gas (t-CO2/t)	2.994	2.994	2.994	2.994	2.994
City Gas (t-CO2/thousand Nm3)	2.053	2.053	2.053	2.053	2.053
Gasoline (t-CO2/kl)	2.290	2.290	2.290	2.290	2.290
Diesel fuel (t-CO2/kl)	2.619	2.619	2.619	2.619	2.619
B·C Heavy oil (t-CO2 /kl)	3.096	3.096	3.096	3.096	3.096

Note: Calculations are based on the Japanese government's Act on the Rational Use, etc. of Energy.

Reference: Overseas CO2 emission calculation coefficient

Reporting Content	FY2020	FY2021	FY2022	FY2023	FY2024
Electric power					
Indonesia	0.800	0.800	0.800	0.800	0.800
China	0.764	0.764	0.581	0.570	0.570
Thailand	0.522	0.522	0.522	0.522	0.522
Philippines	0.492	0.492	0.492	0.492	0.492
Malaysia	0.688	0.688	0.688	0.688	0.688
Singapore	0.500	0.500	0.500	0.500	0.500
Taiwan	0.764	0.764	0.764	0.764	0.764
Hong Kong	0.768	0.768	0.768	0.768	0.768
Korea	0.545	0.545	0.545	0.545	0.545
India	0.856	0.856	0.856	0.856	0.856
Vietnam	0.429	0.429	0.429	0.429	0.429

Note: Overseas CO2 emission coefficients by country are drawn from CO2 Emissions from Fuel Combustion: Highlights, 2013 Edition. Source: IEA