

Mandom Group Environmental Data by Production Site

Latest update: 17 June, 2025

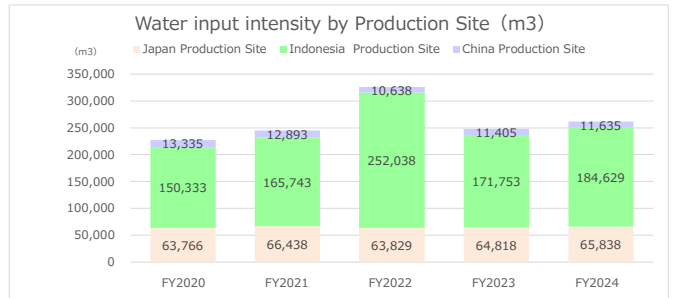
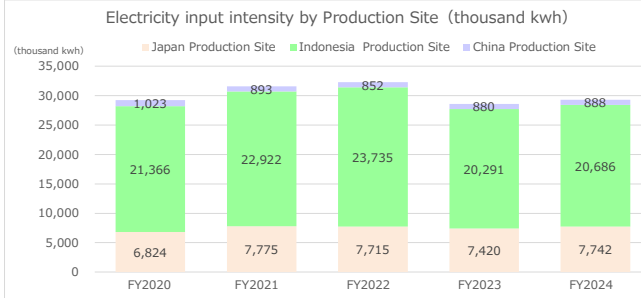
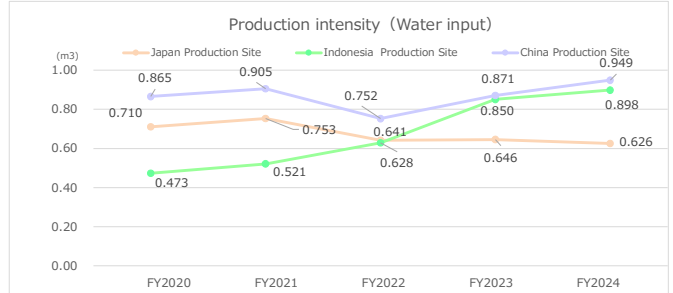
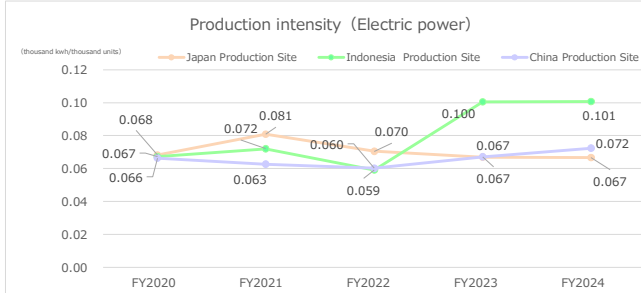
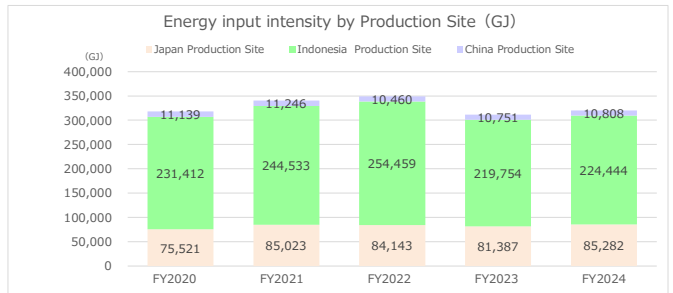
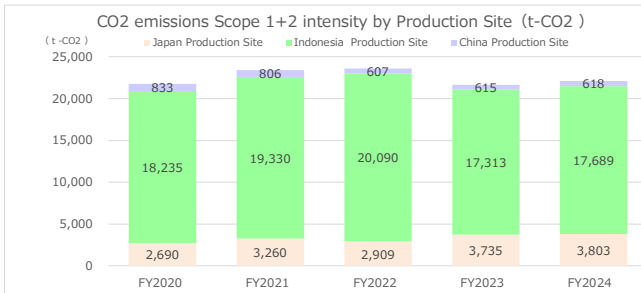
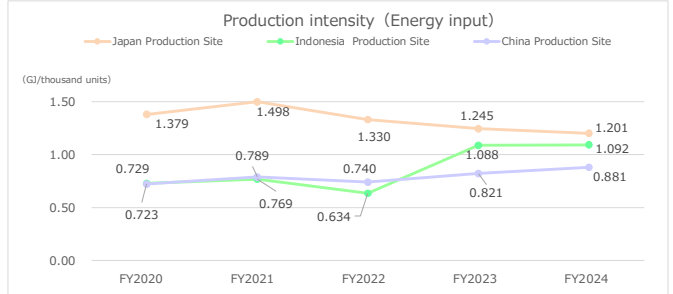
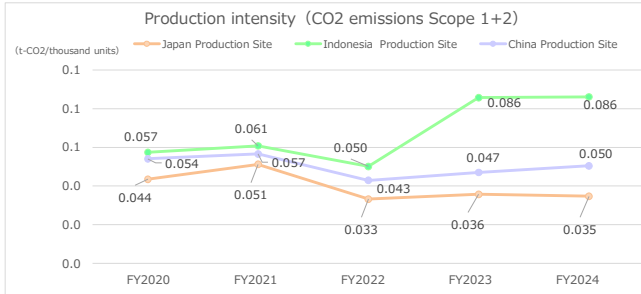
1: Aggregation Area: Japan (Production Site: Fukusaki Factory), Overseas (Production Sites: Indonesia Factory1・Factory2, China Zhongshan Factory)
2: Aggregation Period: Japan: April of the listed fiscal year to the following March, Overseas: January to December of the listed fiscal year

Production Site Overview

Country	Name of Factory	Site area (m ²)	Floor area (m ²)	Note
Japan	Fukusaki Factory	71,058	57,577	Exclude virtual area of automated rack warehouses (no floors on floors 2-5)
Indonesia	Head Office / Factory1 Factory2	147,936 54,442	34,183 39,884	Only the head office division moved to Jakarta in August 2018.
China	Zhongshan Factory	27,253	5,972	

Eco-efficiency by Production Site (Production intensity index: Scope 1+2)

Country	Name of Factory	FY2020	FY2021	FY2022	FY2023	FY2024
Japan	Production Volume	thousand units	99,996	96,078	109,474	110,855
	CO2 emission (Scope 1, 2) intensity	t-CO2/million yen	0.027	0.034	0.027	0.034
	Energy input intensity	GJ/thousand units	0.755	0.885	0.769	0.734
	Electricity input intensity	thousand kwh/thousand units	0.068	0.081	0.070	0.067
	Water input intensity	m3/thousand units	0.638	0.692	0.583	0.585
			0.638	0.692	0.583	0.585
Indonesia	Production Volume	thousand units	317,573	318,085	401,085	201,977
	CO2 emission (Scope 1, 2) intensity	t-CO2/million yen	0.057	0.061	0.050	0.086
	Energy input intensity	GJ/thousand units	0.729	0.769	0.634	1.088
	Electricity input intensity	thousand kwh/thousand units	0.067	0.072	0.059	0.100
	Water input intensity	m3/thousand units	0.473	0.521	0.628	0.850
			0.473	0.521	0.628	0.850
China	Production Volume	thousand units	15,412	14,247	14,143	13,096
	CO2 emission (Scope 1, 2) intensity	t-CO2/million yen	0.054	0.057	0.043	0.047
	Energy input intensity	GJ/thousand units	0.723	0.789	0.740	0.821
	Electricity input intensity	thousand kwh/thousand units	0.066	0.063	0.060	0.067
	Water input intensity	m3/thousand units	0.865	0.905	0.752	0.871
			0.865	0.905	0.752	0.871



Individual Environmental Data by Production Site

INPUT (Energy Input, Water Input and Raw materials in use)

Reporting Content	Unit	Business Location / Category	FY2020	FY2021	FY2022	FY2023	FY2024
INPUT							
Energy Input	GJ	Total	318,071.9	340,801.6	349,061.5	311,892.2	320,534.5
		Japan Production Site	75,520.9	85,023.3	84,142.8	81,387.0	85,282.2
		Indonesia Production Site	231,412.0	244,532.8	254,458.5	219,753.9	224,444.2
		China Production Site	11,139.0	11,245.5	10,460.2	10,751.3	10,808.1
Electric Power Input	thousand kwh	Total	29,213.6	31,590.8	32,301.7	28,590.9	29,315.6
		Japan Production Site	6,824.0	7,774.8	7,714.5	7,420.0	7,741.7
		Indonesia Production Site	21,366.5	22,922.5	23,735.5	20,291.1	20,685.7
		China Production Site	1,023.1	893.5	851.7	879.8	888.2
Gas (LPG, LNG) *Conversion coefficients (t/m3) 1t=502m3	m3	Total	105,347.7	136,904.0	131,774.7	131,426.3	138,673.6
		Japan Production Site	86,984.7	88,797.1	85,349.3	86,103.6	93,544.4
		Indonesia Production Site	1,656.6	1,656.6	1,794.1	1,606.4	1,405.6
		China Production Site	16,706.4	46,450.3	44,631.3	43,716.3	43,723.6
Gasoline	k l	Total	128.3	120.8	134.8	148.1	131.3
		Japan Production Site	0.6	0.4	0.4	0.7	0.3
		Indonesia Production Site	122.0	112.8	127.0	138.6	123.0
		China Production Site	5.7	7.6	7.4	8.9	8.0
Kerosene	k l	Total	0.0	0.0	0.0	0.0	0.0
		Japan Production Site	0.0	0.0	0.0	0.0	0.0
		Indonesia Production Site	0.0	0.0	0.0	0.0	0.0
		China Production Site	0.0	0.0	0.0	0.0	0.0
Gasoline	k l	Total	372.3	317.4	352.5	333.2	367.4
		Japan Production Site	0.0	0.0	0.0	0.0	0.0
		Indonesia Production Site	372.3	317.4	352.5	333.2	367.4
		China Production Site	0.0	0.0	0.0	0.0	0.0
Water input	m3	Total	227,434.0	245,074.0	326,505.0	247,976.3	262,102.1
		Japan Production Site	63,766.0	66,438.0	63,829.0	64,818.0	65,838.0
		Indonesia Production Site	150,333.0	165,743.0	252,038.0	171,753.3	184,629.1
		China Production Site	13,335.0	12,893.0	10,638.0	11,405.0	11,635.0
Raw materials used in products, etc.	t	Total	19,565.6	19,387.8	21,019.1	19,031.2	22,681.9
		Japan Production Site	8,138.0	7,575.0	8,022.2	8,153.3	10,838.2
		Indonesia Production Site	11,163.5	11,606.8	12,762.6	10,662.1	11,649.7
		China Production Site	264.0	206.0	234.3	215.8	194.0
Packaging and container materials	t	Total	7,011.7	6,281.8	7,562.5	7,700.5	7,542.0
		Japan Production Site	7,011.7	6,281.8	7,562.5	7,700.5	7,542.0
		Indonesia Production Site	0.0	0.0	0.0	0.0	0.0
		China Production Site	0.0	0.0	0.0	0.0	0.0

OUTPUT (Energy Input, Water Effluent and Waste material)

Reporting Content	Unit	Business Location / Category	FY2020	FY2021	FY2022	FY2023	FY2024
OUTPUT							
CO2 Emissions							
Scope 1 + 2	t -CO2	Total	21,758.2	23,395.5	23,606.4	21,663.5	22,109.7
		Japan Production Site	2,690.2	3,259.5	2,909.2	3,735.4	3,802.5
		Indonesia Production Site	18,235.2	19,329.7	20,090.2	17,312.9	17,689.1
		China Production Site	832.8	806.2	607.0	615.1	618.1
Scope 1	t -CO2	Total	1,713.3	1,645.9	1,724.0	1,708.5	1,810.8
		Japan Production Site	520.2	530.6	510.0	515.1	558.8
		Indonesia Production Site	1,142.0	991.7	1,101.8	1,080.0	1,140.5
		China Production Site	51.2	123.6	112.2	113.4	111.5
Scope 2	t -CO2	Total	20,044.9	21,749.6	21,882.4	19,954.9	20,298.9
		Japan Production Site	2,170.0	2,729.0	2,399.2	3,220.3	3,243.8
		Indonesia Production Site	17,093.2	18,338.0	18,988.4	16,232.9	16,548.5
		China Production Site	781.7	682.6	494.8	501.7	506.6
Water Effluent (*data not yet available)	m3	Total	24,755.1	27,534.6	24,421.6	24,609.9	24,600.1
		Japan Production Site	23,360.1	25,999.6	23,078.6	22,967.9	23,358.1
		Indonesia Production Site	0.0	0.0	0.0	0.0	0.0
		China Production Site	1,395.0	1,535.0	1,343.0	1,642.0	1,242.0
Waste material	t	Total	4,714.1	5,007.1	4,577.0	4,507.0	4,855.9
		Japan Production Site	2,920.5	3,406.7	3,331.6	3,193.7	3,657.8
		Indonesia Production Site	1,786.0	1,574.6	1,212.2	1,294.1	1,180.3
		China Production Site	7.7	25.7	33.3	19.2	17.7
Final Disposal Amount	t	Total	715.9	764.3	792.9	765.0	767.0
		Japan Production Site	14.6	15.7	5.6	6.6	12.4
		Indonesia Production Site	695.1	728.1	754.0	739.2	741.4
		China Production Site	6.1	20.5	33.3	19.2	13.2
Resource Recovery Rate	%	Total	84.8%	84.7%	82.7%	83.0%	84.2%
		Japan Production Site	99.5%	99.5%	99.8%	99.8%	99.7%
		Indonesia Production Site	61.1%	53.8%	37.8%	42.9%	37.2%
		China Production Site	20.3%	20.2%	0.0%	0.0%	25.4%
Sulfur Oxide (SOx) Emissions (*data not yet available)	kg	Total	0.000	0.000	0.004	0.004	0.018
		Japan Production Site	0.000	0.000	0.000	0.000	0.000
		Indonesia Production Site	0.000	0.000	0.000	0.000	0.000
		China Production Site	0.000	0.000	0.004	0.004	0.018
Nitrogen Oxide (NOx) Emissions (*data not yet available)	kg	Total	0.000	0.000	0.052	0.052	0.047
		Japan Production Site	0.000	0.000	0.000	0.000	0.000
		Indonesia Production Site	0.000	0.000	0.000	0.000	0.000
		China Production Site	0.000	0.000	0.052	0.052	0.047
Dust Emissions (*data not yet available)	kg	Total	0.000	0.000	0.005	0.005	0.000
		Japan Production Site	0.000	0.000	0.000	0.000	0.000
		Indonesia Production Site	0.000	0.000	0.000	0.000	0.000
		China Production Site	0.000	0.000	0.005	0.005	0.000

Please note: The changes of CO2 emission coefficients

Business Location / Category		FY2020	FY2021	FY2022	FY2023	FY2024
CO2 Emission Coefficients	Japan Production Site					
	Electric power emission coefficients	0.318/0.409	0.351	0.351	0.351	0.351
	Kerosene emission coefficients	-	-	-	-	-
	Gas emission coefficients	2.994	2.994	2.994	2.994	2.994
	Indonesia Production Site					
	Electric power emission coefficients	0.755	0.755	0.755	0.755	0.755
	Kerosene emission coefficients	2.580	2.580	2.580	2.580	2.580
	Gas emission coefficients	3.000	3.000	3.000	3.000	3.000
	China Production Site					
	Electric power emission coefficients	0.764	0.764	0.764	0.764	0.764
	Kerosene emission coefficients	2.580	2.580	2.580	2.580	2.580
	Gas emission coefficients	2.700	2.700	2.700	2.700	2.700

*Energy consumption calculated based on formulas in the Japanese Act on the Rational Use of Energy.
*Overseas CO2 emission coefficients by country are drawn from "CO₂ Emissions from Fuel Combustion: Highlights, 2013 Edition."
Source: IEA. Fiscal year CO₂ emission coefficients for Japan are based on data from individual electric power producers.
*All fuel coefficients other than electricity are drawn from the calorific value and emission coefficients in the Japanese