

Mandom Group Environmental Data by Production Site

Latest update: 19th June, 2024

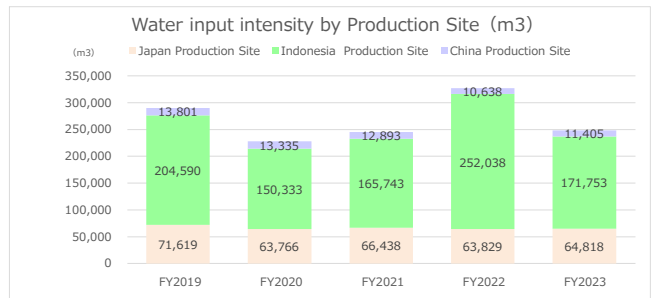
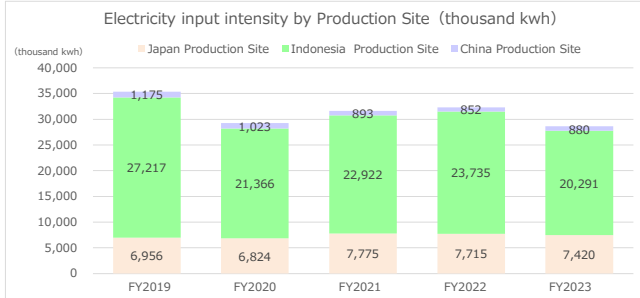
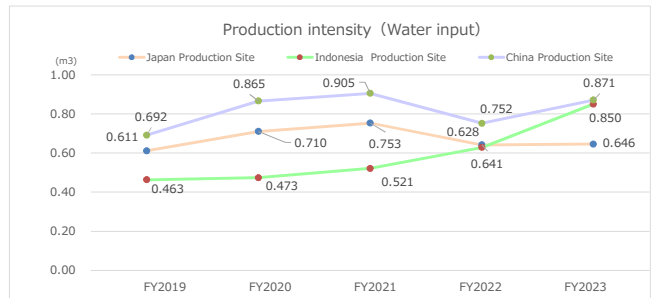
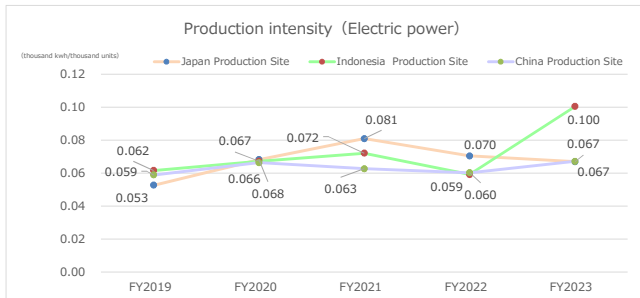
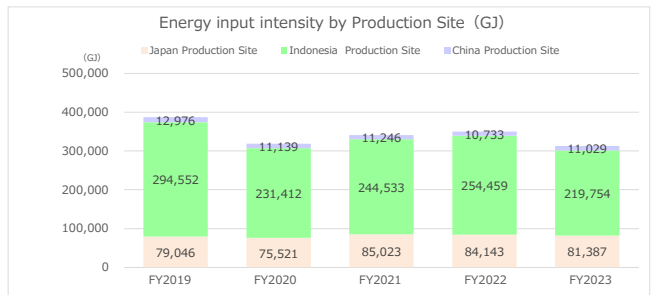
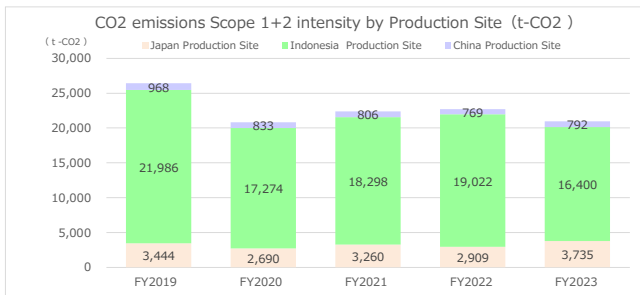
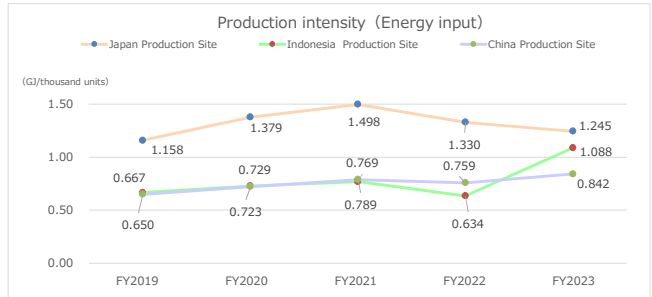
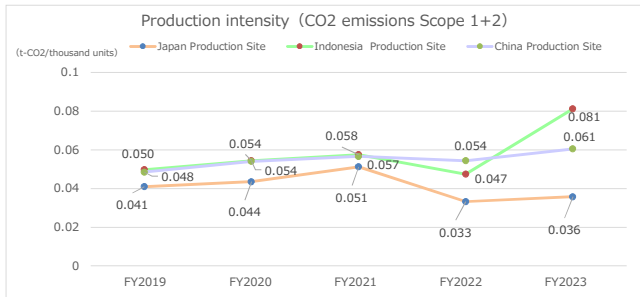
1: Aggregation Area: Japan (Production Site: Fukusaki Factory), Overseas (Production Sites: Indonesia Factory1-Factory2, China Zhongshan Factory)
 2: Aggregation Period: Japan: April of the listed fiscal year to the following March, Overseas: January to December of the listed fiscal year

Production Site Overview

Country	Name of Factory	Site area (m ²)	Floor area (m ²)	Note
Japan	Fukusaki Factory	71,058	57,757	Exclude virtual area of automated rack warehouses (no floors on floors 2-5)
Indonesia	Head Office / Factory1	147,936	34,183	Only the head office division moved to Jakarta in August 2018.
	Factory2	54,442	39,884	
China	Zhongshan Factory	27,253	5,972	

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

Country	Name of Factory	FY2019	FY2020	FY2021	FY2022	FY2023	
Japan	Production Volume	thousand units	132,075	99,996	96,078	109,474	110,855
	CO2 emission (Scope 1, 2) intensity	t-CO2/million yen	0.026	0.027	0.034	0.027	0.034
	Energy input intensity	GJ/thousand units	0.598	0.755	0.885	0.769	0.734
	Electricity input intensity	thousand kwh/thousand units	0.053	0.068	0.081	0.070	0.067
	Water input intensity	m3/thousand units	0.542	0.638	0.692	0.583	0.585
Indonesia	Production Volume	thousand units	441,889	317,573	318,085	401,085	201,977
	CO2 emission (Scope 1, 2) intensity	t-CO2/million yen	0.050	0.054	0.058	0.047	0.081
	Energy input intensity	GJ/thousand units	0.667	0.729	0.769	0.634	1.088
	Electricity input intensity	thousand kwh/thousand units	0.062	0.067	0.072	0.059	0.100
	Water input intensity	m3/thousand units	0.463	0.473	0.521	0.628	0.850
China	Production Volume	thousand units	19,956	15,412	14,247	14,143	13,096
	CO2 emission (Scope 1, 2) intensity	t-CO2/million yen	0.048	0.054	0.057	0.054	0.061
	Energy input intensity	GJ/thousand units	0.650	0.723	0.789	0.759	0.842
	Electricity input intensity	thousand kwh/thousand units	0.059	0.066	0.063	0.060	0.067
	Water input intensity	m3/thousand units	0.692	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	FY2019	FY2020	FY2021	FY2022	FY2023
INPUT							
Energy Input	GJ	Total	386,572.8	318,071.9	340,801.6	349,334.2	312,169.4
		Japan Production Site	79,045.7	75,520.9	85,023.3	84,142.8	81,387.0
		Indonesia Production Site	294,551.6	231,412.0	244,532.8	254,458.5	219,753.9
		China Production Site	12,975.5	11,139.0	11,245.5	10,732.8	11,028.5
Electric Power Input	thousand kwh	Total	35,348.5	29,213.6	31,590.8	32,301.7	28,590.9
		Japan Production Site	6,956.1	6,824.0	7,774.8	7,714.5	7,420.0
		Indonesia Production Site	27,217.3	21,366.5	22,922.5	23,735.5	20,291.1
		China Production Site	1,175.1	1,023.1	893.5	851.7	879.8
Gas (LPG, LNG) *Conversion coefficients (t/m3) 1t=502m3	m3	Total	130,949.9	105,347.7	136,904.0	131,774.7	131,426.3
		Japan Production Site	107,305.7	86,984.7	88,797.1	85,349.3	86,103.6
		Indonesia Production Site	2,560.2	1,656.6	1,656.6	1,794.1	1,606.4
		China Production Site	21,084.0	16,706.4	46,450.3	44,631.3	43,716.3
Gasoline	kl	Total	209.5	128.3	120.8	134.6	148.1
		Japan Production Site	0.8	0.6	0.4	0.4	0.7
		Indonesia Production Site	199.3	122.0	112.8	127.0	138.6
		China Production Site	9.4	5.7	7.6	7.2	8.9
Kerosene	kl	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	kl	Total	428.5	372.3	317.4	352.5	333.2
		Japan Production Site	0.0	0.0	0.0	0.0	0.0
		Indonesia Production Site	428.5	372.3	317.4	352.5	333.2
		China Production Site	0.0	0.0	0.0	0.0	0.0
Water input	m3	Total	290,010.0	227,434.0	245,074.0	326,505.0	247,976.3
		Japan Production Site	71,619.0	63,766.0	66,438.0	63,829.0	64,818.0
		Indonesia Production Site	204,590.0	150,333.0	165,743.0	252,038.0	171,753.3
		China Production Site	13,801.0	13,335.0	12,893.0	10,638.0	11,405.0
Raw materials used in products, etc.	t	Total	24,934.0	19,565.6	19,387.8	21,019.1	19,031.2
		Japan Production Site	10,248.0	8,138.0	7,575.0	8,022.2	8,153.3
		Indonesia Production Site	14,379.3	11,163.5	11,606.8	12,762.6	10,662.1
		China Production Site	306.7	264.0	206.0	234.3	215.8
Packaging and container materials	t	Total	9,027.3	7,011.7	6,281.8	7,562.5	7,700.5
		Japan Production Site	9,027.3	7,011.7	6,281.8	7,562.5	7,700.5
		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	FY2019	FY2020	FY2021	FY2022	FY2023	
OUTPUT								
CO2 Emissions	Scope 1 + 2	t -CO2	Total	26,397.6	20,796.7	22,364.0	22,700.5	20,927.6
			Japan Production Site	3,444.3	2,690.2	3,259.5	2,909.2	3,735.4
			Indonesia Production Site	21,985.8	17,273.7	18,298.2	19,022.1	16,399.8
			China Production Site	967.5	832.8	806.2	769.2	792.4
	Scope 1	t -CO2	Total	2,148.4	1,713.3	1,645.9	1,730.3	1,715.4
			Japan Production Site	641.9	520.2	530.6	510.0	515.1
			Indonesia Production Site	1,436.7	1,142.0	991.7	1,101.8	1,080.0
	China Production Site	69.8	51.2	123.6	118.5	120.3		
	Scope 2	t -CO2	Total	24,249.3	19,083.4	20,718.1	20,970.2	19,212.2
			Japan Production Site	2,802.5	2,170.0	2,729.0	2,399.2	3,220.3
Indonesia Production Site			20,549.0	16,131.7	17,306.5	17,920.3	15,319.8	
China Production Site	897.8	781.7	682.6	650.7	672.1			
Water Effluent (*data not yet available)	m3	Total	30,012.4	24,755.1	27,534.6	24,421.6	24,609.9	
		Japan Production Site	28,302.4	23,360.1	25,999.6	23,078.6	22,967.9	
		Indonesia Production Site	0.0	0.0	0.0	0.0	0.0	
		China Production Site	1,710.0	1,395.0	1,535.0	1,343.0	1,642.0	
Waste material	t	Total	5,354.5	4,714.1	5,007.1	4,577.0	4,507.0	
		Japan Production Site	3,403.5	2,920.5	3,406.7	3,331.6	3,193.7	
		Indonesia Production Site	1,926.5	1,786.0	1,574.6	1,212.2	1,294.1	
		China Production Site	24.5	7.7	25.7	33.3	19.2	
Final Disposal Amount	t	Total	805.8	715.9	764.3	792.9	758.5	
		Japan Production Site	34.7	14.6	15.7	5.6	0.0	
		Indonesia Production Site	765.4	695.1	728.1	754.0	739.2	
		China Production Site	5.7	6.1	20.5	33.3	19.2	
Resource Recovery Rate	%	Total	85.0%	84.8%	84.7%	82.7%	83.2%	
		Japan Production Site	99.0%	99.5%	99.5%	99.8%	100.0%	
		Indonesia Production Site	60.3%	61.1%	53.8%	37.8%	42.9%	
		China Production Site	76.7%	20.3%	20.2%	0.0%	0.0%	
Sulfur Oxide (SOx) Emissions (*data not yet available)	kg	Total	0.000	0.000	0.000	0.004	0.004	
		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	0.000	0.004	0.004	
Nitrogen Oxide (NOx) Emissions (*data not yet available)	kg	Total	0.000	0.000	0.000	0.052	0.052	
		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	0.000	0.052	0.052	
Dust Emissions (*data not yet available)	kg	Total	0.000	0.000	0.000	0.005	0.005	
		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	0.000	0.005	0.005	

Please note: The changes of CO2 emission coefficients

Business Location / Category		FY2019	FY2020	FY2021	FY2022	FY2023
CO2 Emission Coefficients	Japan Production Site					
	Electric power emission coefficients	0.334/0.45	0.318/0.409	0.351	0.311	0.434
	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