

Mandom Group Environmental Data by Production Site

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

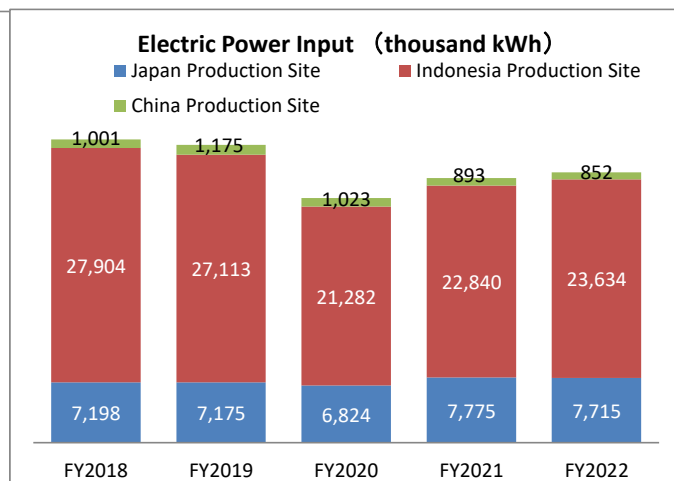
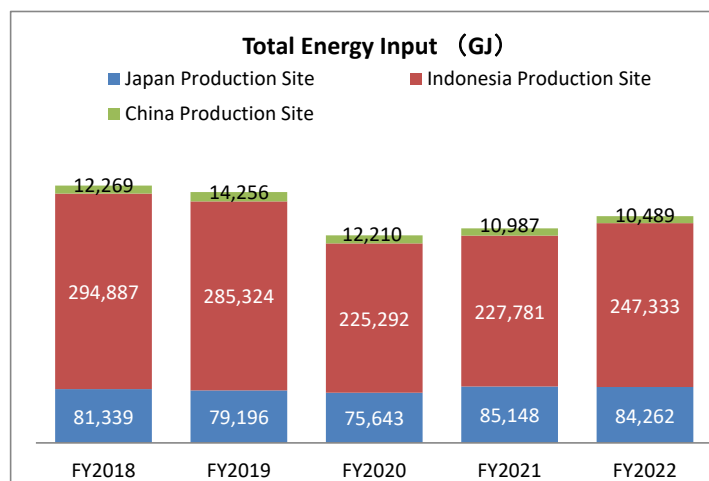
Country	Name of Factory	Site area (m ²)	Floor area (m ²)	Note
Japan	Fukusaki Factory	71,058	57,757	Exclude virtual area of automated rack warehouses (no floors on floors 2-5)
Indonesia	Head Office / Factory1	147,936	34,183	Only the head office division moved to Jakarta in August 2018.
	Factory2	54,442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

Net Sales, Production Volume, Eco-efficiency by Production Site

Country	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Japan						
Net Sales	million yen	48,442	46,175	38,847	32,595	35,769
Per Unit	t -CO ₂ /million yen	0.078	0.075	0.078	0.097	0.081
Production Volume	thousand units	136,102	132,047	99,996	96,078	109,474
Per Unit	t -CO ₂ /thousand units	0.028	0.026	0.030	0.033	0.027
Indonesia						
Net Sales	million Rp	2,673,444	2,804,152	2,021,162	1,954,155	1,475,072
Per Unit	t -CO ₂ /million Rp	0.009	0.008	0.008	0.009	0.013
Production Volume	thousand units	466,477	441,889	317,573	318,085	401,085
Per Unit	t -CO ₂ /thousand units	0.049	0.049	0.053	0.056	0.046
China						
Production Volume	thousand units	19,460	19,956	15,412	14,247	14,143
Per Unit	t -CO ₂ /thousand units	0.045	0.051	0.124	0.055	0.054

Individual Environmental Data by Production Site

Reporting Content	Unit	Business Location / Category	FY2018	FY2019	FY2020	FY2021	FY2022
Total Energy Input	GJ	Total	388,495	378,776	313,144	323,915	342,084
		Japan Production Site	81,339	79,196	75,643	85,148	84,262
		Fukusaki Factory	81,339	79,196	75,643	85,148	84,262
		Indonesia Production Site	294,887	285,324	225,292	227,781	247,333
		Head Office / Factory1	143,660	144,552	118,710	116,824	125,568
		Factory2	151,227	140,772	106,582	110,957	121,765
		China Production Site	12,269	14,256	12,210	10,987	10,489
Zhongshan Factory	12,269	14,256	12,210	10,987	10,489		
Electric Power Input	thousand kWh	Total	36,104	35,463	29,129	31,509	32,201
		Japan Production Site	7,198	7,175	6,824	7,775	7,715
		Fukusaki Factory	7,198	7,175	6,824	7,775	7,715
		Indonesia Production Site	27,904	27,113	21,282	22,840	23,634
		Head Office / Factory1	12,836	13,064	10,642	11,190	11,439
		Factory2	15,068	14,049	10,640	11,650	12,195
		China Production Site	1,001	1,175	1,023	893	852
Zhongshan Factory	1,001	1,175	1,023	893	852		



Reporting Content	Unit	Business Location / Category	FY2018	FY2019	FY2020	FY2021	FY2022
Water Input	m ³	Total	302,836	290,010	227,434	245,074	326,505
		Japan Production Site	71,638	71,619	63,766	66,438	63,829
		Fukusaki Factory water supply	63,313	61,633	57,224	62,996	61,813
		Fukusaki Factory industrial water supply	8,325	9,986	6,542	3,442	2,016
		Indonesia Production Site	216,683	204,590	150,333	165,743	252,038
		Head Office/Factory1 water supply	164,137	141,725	98,900	106,381	109,928
		Head Office/Factory1 groundwater	0	0	0	0	0
		Factory2 industrial water supply	24,890	29,778	24,363	28,119	96,785
		Factory2 water supply	27,656	33,087	27,070	31,243	45,325
		China Production Site	14,515	13,801	13,335	12,893	10,638
Zhongshan Factory water supply	14,515	13,801	13,335	12,893	10,638		
CO ₂ Emissions	t -CO ₂	Total	26,797	25,968	20,654	21,946	22,320
		Japan Production Site	3,762	3,485	2,841	3,175	2,910
		Fukusaki Factory	3,762	3,485	2,841	3,175	2,910
		Indonesia Production Site	22,125	21,438	16,919	17,968	18,644
		Head Office/Factory1	10,728	10,816	8,876	9,162	9,426
		Factory2	11,397	10,622	8,043	8,806	9,218
		China Production Site	910	1,045	894	803	766
		Zhongshan Factory	910	1,045	894	803	766

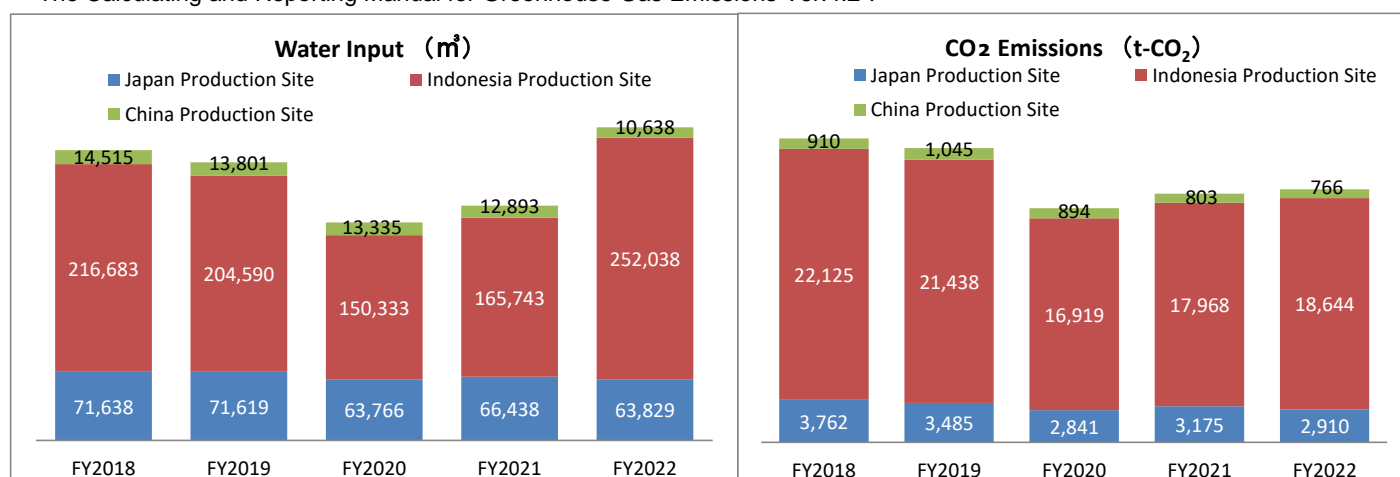
Please note: The changes of CO₂ emission coefficients

Business Location / Category	FY2018	FY2019	FY2020	FY2021	FY2022
CO₂ Emission Coefficients					
Japan Production Site					
Electric power emission coefficients	0.508/0.405	0.508/0.405	0.352/0.426	0.340/0.391	0.340/0.391
Kerosene emission coefficients	2.49	2.49	-	-	-
Gas emission coefficients	3.00	3.00	3.00	3.00	3.00
Indonesia Production Site					
Electric power emission coefficients	0.755	0.755	0.755	0.755	0.755
Diesel fuel emission coefficients	2.58	2.58	2.58	2.58	2.58
Gas emission coefficients	3.00	3.00	3.00	3.00	3.00
China Production Site					
Electric power emission coefficients	0.764	0.764	0.764	0.764	0.764
Diesel fuel emission coefficients	2.58	2.58	2.58	2.58	2.58
Gas emission coefficients	2.70	2.70	2.70	2.70	2.70

* 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 "The Calculating and Reporting Manual for Greenhouse Gas Emissions Ver.4.2".



Reporting Content	Unit	Business Location / Category	FY2018	FY2019	FY2020	FY2021	FY2022
Waste material	t	Total	4,343	4,425	3,977	3,674	3,896
		Japan Production Site	2,684	2,473	2,183	2,074	2,651
		Fukusaki Factory	2,684	2,473	2,183	2,074	2,651
		Indonesia Production Site	1,651	1,927	1,786	1,575	1,212
		Head Office/Factory1	1,331	1,629	1,629	1,417	1,043
		Factory2	320	298	157	157	169
		China Production Site	8	25	8	26	33
		Zhongshan Factory	8	25	8	26	33
Final Disposal Amount	t	Total	816	841	764	814	788
		Japan Production Site	6	7	6	9	1
		Fukusaki Factory	6	7	6	9	1
		Indonesia Production Site	805	828	751	784	754
		Head Office/Factory1	783	817	746	779	750
		Factory2	22	11	5	5	4
		China Production Site	5	6	6	21	33
		Zhongshan Factory	5	6	6	21	33
Resource Recovery Rate	%	Japan Production Site	99.8%	99.7%	99.7%	99.6%	99.9%
		Indonesia Production Site	51.3%	57.0%	57.9%	50.2%	37.8%
		China Production Site	29.3%	76.7%	25.0%	20.2%	0.0%
Water Effluent (*data not yet available)	m ³	Japan Production Site	29,109	28,302	23,360	26,000	23,079
		Indonesia Production Site	*	*	*	*	*
		China Production Site	*	*	*	*	*
Sulfur Oxide (SOx) Emissions (*data not yet available)	kg	Japan Production Site	5	0	0	0	0
		Indonesia Production Site	*	*	*	*	*
		China Production Site	3	5	10	4	2
Nitrogen Oxide (NOx) Emissions (*data not yet available)	kg	Japan Production Site	80	0	0	0	0
		Indonesia Production Site	*	*	*	*	*
		China Production Site	91	40	40	32	25
Dust Emissions (*data not yet available)	kg	Japan Production Site	2	0	0	0	0
		Indonesia Production Site	*	*	*	*	*
		China Production Site	*	*	*	*	*