

Data on KUBOTA Production Plants in Japan

Item	Unit	Hanshin Plant (Mukogawa)	Hanshin Plant (Amagasaki)	Hanshin Plant (Shin-yodogawa Factory)	Keiyo Plant (Funabashi)	Keiyo Plant (Ichikawa)	Hirakata Plant	Okajima Business Center	Sakai Plant	Sakai Rinkai Plant	Utsunomiya Plant	Tsukuba Plant	Kyuhoji Business Center	Ryugasaki Plant	Shiga Plant																	
Energy	Electricity	10,000 kWh	4,396	430,138	3,107	309,809	54	5,134	6,895	665,099	553	55,116	4,870	476,919	5,184	506,090	3,559	347,468	1,699	165,698	829	81,609	4,324	421,772	244	23,928	338	33,659	288	28,749		
	Coal coke	tons	13,522	407,018	0	0	0	0	28,088	845,457	0	0	0	0	7,264	218,633	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Town gas	1,000 m³	3,789	163,178	3,919	168,802	0	0	749	32,277	0	0	4,343	187,035	1,609	69,315	2,080	89,605	745	32,079	1,050	45,226	2,664	114,748	116	5,013	212	9,133	670	28,854		
	Kerosene	kℓ	5,464	200,541	15	541	36	1,328	13,911	510,537	13	469	78	2,870	0	1	0	0	0	3	326	11,975	840	30,812	11	404	10	363	0	0		
	Light oil	kℓ	27	1,043	14	534	18	697	142	5,414	0	0	379	14,493	52	1,997	901	34,433	1,727	65,968	0	0	0	0	0	0	0	0	0	0	0	
	Heavy oil, LPG, etc.		—	1,800	—	2,478	—	73	—	26,275	—	2,796	—	1,290	—	293	—	27,254	—	7,416	—	0	—	0	—	1,870	—	433	—	0		
Total		—	1,203,718	—	482,164	—	7,232	—	2,085,059	—	58,381	—	682,607	—	796,329	—	498,761	—	271,164	—	138,810	—	567,331	—	31,215	—	43,588	—	57,603			
Water usage	10,000 m³	88.7	16.4	0.5	152.9	1.4	21.8	12.9	13.6	4.8	22.8	19.6	1.5	1.4	15.0																	

CO ₂ emission	t-CO ₂	82,007	20,136	340	158,637	2,555	28,564	49,325	21,803	12,865	6,625	26,272	1,291	1,951	2,515
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Exhaust gas	Main smoke and soot generating facilities		Melting furnaces			Heating furnaces			Drying furnaces			Melting furnaces			Heating furnaces			Melting furnaces			Drying furnaces			Drying furnaces			Boilers			Boilers			Boilers									
	Unit	Regulation content	Regulated value	Measured value	Regulation content	Regulated value	Measured value	Regulation content	Regulated value	Measured value	Regulation content	Regulated value	Measured value	Regulation content	Regulated value	Measured value	Regulation content	Regulated value	Measured value	Regulation content	Regulated value	Measured value	Regulation content	Regulated value	Measured value	Regulation content	Regulated value	Measured value	Regulation content	Regulated value	Measured value											
	SOx	Regulation of volume and K-value regulation: m³/h	0.5	0.04	*Use of town gas with zero sulfur content			K-value regulation	0.68	0.001	Regulation of volume	19.3	0.05	No smoke and soot generating facilities			*Use of town gas with zero sulfur content	Regulation of volume	2.86	0.054	Regulation of volume	1.615	0.057	No smoke and soot generating facilities			*Use of town gas with zero sulfur content	K-value regulation	17.5	0.072	No smoke and soot generating facilities			*Use of town gas with zero sulfur content	Regulation of volume	2.86	0.054	Regulation of volume	1.615	0.057		
NOx	Regulation of volume: m³/h	24.2	4.5	Regulation of volume	8.30	0.24	Regulation of volume	230	52	Regulation of volume	42.4	4.08	No smoke and soot generating facilities			Regulation of volume	7.66	2.16	Regulation of volume	2.4	0.255	Regulation of volume	1.661	0.552	No smoke and soot generating facilities			Concentration regulation	250	Not in operation	Concentration regulation	230	92	No smoke and soot generating facilities			Concentration regulation	230	58	Concentration regulation	180	33
Soot and dust	g/m³N	0.1	0.0015	Concentration regulation	0.1	0.0012	Concentration regulation	0.1	0.005	Concentration regulation	0.1	0.0013	No smoke and soot generating facilities			Concentration regulation	0.1	0.008	Concentration regulation	0.05	0.005	Concentration regulation	0.1	0.005	No smoke and soot generating facilities			Concentration regulation	0.35	Not in operation	Concentration regulation	0.25	0.01	No smoke and soot generating facilities			Concentration regulation	0.2	Under 0.01	—	—	—

Drainage	Public water areas	pH	Regulated value		Measured value		Regulated value		Measured value		Regulated value		Measured value		Regulated value		Measured value		Regulated value		Measured value		Regulated value		Measured value		Regulated value		Measured value		Regulated value		Measured value	
			5.8-8.6	6.8	—	—	—(No specific facilities)	7.7	5-9	6.9	5-9	5.8	5.8-8.6	7.4	—	—	—	—	5.8-8.6	6.9	5.8-8.6	7.5	5.8-8.6	7.7	—	—	—	—	—	—	6.0-8.5	7.6		
Sewerage	BOD	mg/l	30	3	—	—	—	1	—	—	60	ND	25	4.2	—	—	—	—	15	2.2	25	5.7	20	4.6	—	—	—	—	—	—	20	5		
	COD	mg/l	20	4	—	—	—	2	20	2.5	60	9	25	5.4	—	—	—	—	25	10.7	—	—	20	6.8	—	—	—	—	—	—	20	3		
	Nitrogen	mg/l	40	3.6	—	—	—	0.60	20	4.11	70	2.1	120	3.3	—	—	—	—	120	13.3	—	—	60	9.4	—	—	—	—	—	—	8	<0.5		
	Phosphorus	mg/l	1	0.20	—	—	—	0.31	2	0.04	7	1.8	16	0.3	—	—	—	—	8	0.70	—	—	8	0.5	—	—	—	—	—	—	0.8	<0.1		
	Hexavalent chromium	mg/l	0.35	ND	—	—	—	ND	0.05	ND	0.5	ND	0.05	ND	—	—	—	—	0.5	ND	0.1	<0.05	0.5	ND	—	—	—	—	—	—	0.05	ND		
	Lead	mg/l	0.1	ND	—	—	—	ND	0.1	ND	0.1	ND	0.01	ND	—	—	—	—	0.1	ND	0.1	<0.01	0.1	ND	—	—	—	—	—	—	0.1	ND		
Sewerage	Regulation value of COD volume	kg/day	112.3	10.5	—	—	—	—	210.3	19.0	3,870	0.38	49.93	2.02	—	—	—	—	3.3	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Regulation value of nitrogen volume	kg/day	129.1	17.7	—	—	—	—	159.5	17.4	3,105	0.33	52.6	1.95	—	—	—	—	13.20	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Regulation value of phosphorus volume	kg/day	16.5	0.4	—	—	—	—	21.45	0.21	0.407	0.036	6.26	0.16	—	—	—	—	1.76	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	
Waste	Volume of discharge	tons	15,361	3,446	4,300	32,624	189	4,623	21,158	1,165	908	326	2,566	137	141	500																		
		Landfill disposal	%	0.3	2.0	90.6	1.2	0.4	1.5	10.3	1.4	1.5	0.8	0.2	1.1	0.4	0.2																	

Results of PRTR Reporting Unit: kg/year

Name of plant	Name of substance	Number specified in Cabinet Order	Release volume					Transfer volume	
			Atmosphere	Public water areas	Soil	On-site landfills	Sewerage	Transfers to off-site	
Hanshin Plant (Mukogawa)	Ethylbenzene	40	9,576	0.0	0.0	0.0	0.0	61	
	Xylene	63	20,845	0.0	0.0	0.0	0.0	90	
	1, 3, 5-trimethylbenzene	224	0.0	0.0	0.0	0.0	0.0	0.0	
	Toluene	227	42,669	0.0	0.0	0.0	0.0	1,547	
	Lead and its compounds	230	0.0	0.0	0.0	0.0	0.0	14,919	
	Nickel	231	0.0	0.0	0.0	0.0	0.0	390	
Hanshin Plant (Marushima)	Ethylbenzene	40	9,907	0.0	0.0	0.0	0.0	8.0	
	Xylene	63	33,415	0.0	0.0	0.0	0.0	11	
	Toluene	227	14,385	0.0	0.0	0.0	0.0	199	
	Nickel	231	0.0	0.0	0.0	0.0	0.0	170	
	Chromium and chromium (III) compounds	68	0.0	0.0	0.0	0.0	30	2,716	
	Toluene	227	1,367	0.0	0.0	0.0	0.0	0.0	
Hanshin Plant (Amagasaki)	Nickel	231	0.0	0.0	0.0	0.0	0.0	0.7	
	Boron and its compounds	304	0.0	0.0	0.0	0.0	0.0	1,320	
	Manganese and its compounds	311	0.0	0.0	0.0	0.0	0.0	5,274	
	Molybdenum and its compounds	346	0.0	0.0	0.0	0.0	0.0	0.0	
	Ethylbenzene	40	1,015	0.0	0.0	0.0	0.0	0.0	
	Xylene	63	2,478	0.0	0.0	0.0	0.0	0.0	
Shin-yodogawa Factory	Toluene	227	2,850	0.0	0.0	0.0	0.0	0.0	
	Bisphenol A type epoxy resin (liquid)	30	0.0	0.0	0.0	0.0	0.0	0.0	
	Xylene	63	0.0	0.0	0.0	0.0	0.0	0.0	
	Cobalt and its compounds	100	0.0	0.0	0.0	0.0	0.0	0.0	
	Styrene	177	1,965	0.0	0.0	0.0	0.0	0.0	
	Bis (2-ethylhexyl) adipate	9	0.0	0.0	0.0	0.0	0.0	153	
Keiyo Plant (Funabashi)	Ethylbenzene	40	37,799	0.0	0.0	0.0	0.0	0.0	
	Cadmium and its compounds	60	0.0	0.0	0.0	0.0	0.0	9,584	
	Xylene	63	59,335	0.0	0.0	0.0	0.0	0.0	
	Toluene	227	107,056	0.0	0.0	0.0	0.0	0.0	
	Lead and its compounds	230	0.0	0.0	0.0	0.0	0.0	28,878	
	Nickel	231	0.0	0.0	0.0	0.0	0.0	27	
Keiyo Plant (Ichikawa)	Phenol	266	0.0	0.0	0.0	0.0	0.0	0.0	
	Manganese and its compounds	311	0.0	0.0	0.0	0.0	0.0	35,309	
	Ethylbenzene	40	981	0.0	0.0	0.0	0.0	327	
	Xylene	63	5,816	0.0	0.0	0.0	0.0	1,939	
	Chromium and chromium (III) compounds	68	0.0	0.0	0.0	0.0	0.0	852	
	Nickel	231	0.0	0.0	0.0	0.0	0.0	0.0	
Hirakata Plant	Phenol	266	0.0	0.0	0.0	0.0	0.0	0.0	
	Manganese and its compounds	311	0.0	0.0	0.0	0.0	0.0	1,996	
	Water-soluble zinc compounds	1	0.0	0.0	0.0	0.0	18	0.0	
	2-aminoethanol	16	0.0	0.0	0.0	0.0	0.0	0.0	
	Ethylbenzene	40	2,334	0.0	0.0	0.0	0.0	365	
	Ethylene glycol	43	0.0	0.0	0.0	0.0	0.0	168	
Okajima Business Center	Xylene	63	4,410	0.0	0.0	0.0	0.0	1,171	
	Toluene	227	805	0.0	0.0	0.0	0.0	503	
	Ethylbenzene	40	981	0.0	0.0	0.0	0.0	327	
	Xylene	63	5,816	0.0	0.0	0.0	0.0	1,939	
	Chromium and chromium (III) compounds	68	0.0	0.0	0.0	0.0	0.0	852	
	Nickel	231	0.0	0.0	0.0	0.0	0.0	0.0	
Sakai Plant	Phenol	266	0.0	0.0	0.0	0.0	0.0	0.0	
	Manganese and its compounds	311	0.0	0.0	0.0	0.0	0.0	1,996	
	Water-soluble zinc compounds	1	0.0	0.0	0.0	0.0	18	0.0	
	2-aminoethanol	16	0.0	0.0	0.0				

