

Kyocera Group Environmental Impact Data

Kyocera Corporation Kagoshima Kokubu Plant



Profile

Location	1-1 Kokubu-Yamashita-cho, Kirishima-shi, Kagoshima
Products manufactured	Electronic devices, industrial machine components, semiconductor components, automotive components
Number of employees	3,151
Landarea	286,614 m ²
Total floor space	237,558 m ²

Environmental Performance

Items	Units		FY2010		FY2011	
	Amount	Specific consumption	Amount	Specific consumption	Amount	Specific consumption
Energy	kℓ (crudeoil based)	kℓ/M Yen	54,859	0.84	63,831	0.76
CO ₂	t-CO ₂	t-CO ₂ /M Yen	85,990	1.31	98,869	1.18
Water	m ³	m ³ /M Yen	1,668,159	25.5	1,874,778	22.4
Industrial waste emissions	kg	kg/M Yen	1,542,546	23.6	2,023,959	24.1
Effluent	m ³	m ³ /M Yen	1,609,526	24.6	1,824,628	21.8

Air related

Items	Facility	Legal standard	Internal criteria	Self-management standard	Performance for FY2011		
					Ave	Max	Measurement frequency
Soot and dust (g/Nm ³)	Large gas oven No. 3	0.25	0.20	0.07	<0.015	<0.015	Twice/year
	Large gas oven No. 4	0.25	0.20	0.07	<0.013	<0.014	Twice/year
	Male dorm boiler No. 3	0.30	0.24	0.1	0.0065	0.013	Twice/year
NOx (ppm)	Large gas oven No. 3	180	144	130	15	18	Twice/year
	Large gas oven No. 4	180	144	130	13	15	Twice/year
	Male dorm boiler No. 3	180	144	133	54	59	Twice/year
SOx (Nm ³ /h)	N/A						

Air emission: total impact (units: tons)

Items	Total emission	
	FY2010	FY2011
NOx	20.2	17.3
SOx	N/A	

Water quality

(units: mg/ℓ)

Items	Legal standard	Internal criteria	Self-management standard	Performance for FY2011		
				Ave	Max	Measurement frequency
Hydrogen ion concentration (pH)	5.8 ~ 8.6	6.2 ~ 8.2	6.5 ~ 8.0	7.3	7.5	Once/week
Biochemical oxygen demand (BOD)	30	10	9.5	2.6	6.0	Once/week
Chemical oxygen demand (COD)	120	10	9.5	4.3	6.3	Once/week
Suspended solid (SS)	30	5	4.8	1.4	3.2	Once/week
N-hexane extracts weight	5	1	0.95	<0.5	<0.5	Once/month
Phenols content	5	0.5	0.45	<0.01	<0.01	Once/year
Copper content	3	1	0.05	<0.01	0.01	Once/month
Zinc content	2	1	0.14	0.027	0.070	Once/month
Dissolved iron content	10	5	0.2	0.037	0.090	Once/month
Dissolved manganese content	10	5	0.13	0.017	0.030	Once/month
Coliform group number (colonies/ mℓ)	3,000	350	189	33	99	Once/month
Nitrogen content	60	60	5.5	3.2	4.4	Once/month
Phosphorous content	8	8	0.88	0.05	0.09	Once/month

Water pollution: total impact (units: tons)

Items	Total emission	
	FY2010	FY2011
Chemical oxygen demand (COD)	7.8	9.0
Biochemical oxygen demand (BOD)	4.8	5.9
Nitrogen	5.5	7.1
Phosphorous	0.4	0.5

Bad odors

No incidents exceeded standards.

Noise and vibration

No incidents exceeded standards.

PRTR substances

(units: tons)

Number	Substance	Handled amounts	Releases			Transfers to		Other amounts		
			Air	Water	Soil	Waste	Sewage	Recycled	Consumption	Removed by process
30	n-alkylbenzenesulfonic acid and its salts(alkyl C=10-14)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	antimony and its compounds	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
53	ethylbenzene	15.8	2.8	0.0	0.0	0.2	0.0	12.7	0.0	0.0
58	ethylene glycol monomethyl ether	1.1	1.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
59	ethylenediamine	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
71	ferric chloride	30.1	0.0	0.0	0.0	0.0	0.0	0.0	28.1	2.0
73	1-octanol	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	ε-caprolactam	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
80	xylene	14.1	3.4	0.0	0.0	2.0	0.0	8.6	0.2	0.0
82	silver and its water-soluble compounds	10.0	0.0	0.0	0.0	0.7	0.0	0.5	8.8	0.0
87	chromium and chromium(III) compounds	9.0	0.0	0.0	0.0	0.3	0.0	4.6	4.1	0.0
132	cobalt and its compounds	1.4	0.0	0.0	0.0	0.0	0.0	0.2	1.2	0.0
133	2-ethoxyethyl acetate: ethylene glycol monoethyl ether acetate	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144	inorganic cyanide compounds (except complex salts and cyanates)	2.4	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.1
242	selenium and its compounds	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
243	dioxins	0.0008	0.0000	0.0000	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000
265	tetrahydromethylphthalic anhydride	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
272	copper salts(water-soluble, except complex salts)	5.1	0.0	0.1	0.0	0.1	0.0	0.0	0.2	4.8
297	1,3,5-trimethylbenzene	1.7	0.0	0.0	0.0	0.0	0.0	1.5	0.2	0.0
300	toluene	285.3	29.4	0.0	0.0	10.5	0.0	133.0	112.2	0.2
302	naphthalene	1.2	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
304	lead	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
305	lead compounds	161.9	0.0	0.0	0.0	14.3	0.0	0.0	147.6	0.0
308	nickel	46.5	0.0	0.0	0.0	0.3	0.0	7.3	38.9	0.0
309	nickel compounds	10.2	0.0	0.2	0.0	0.5	0.0	1.9	7.7	0.0
349	phenol	4.5	0.0	0.0	0.0	4.2	0.0	0.0	0.3	0.0
354	di-n-butyl phthalate	22.9	0.6	0.0	0.0	0.9	0.0	0.9	16.2	4.4
355	bis(2-ethylhexyl)phthalate	10.7	0.0	0.0	0.0	0.7	0.0	1.0	8.9	0.1
374	hydrogen fluoride and its water-soluble salts	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
395	water-soluble salts of peroxodisulfuric acid	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.2
405	boron compounds	4.0	0.0	0.3	0.0	0.5	0.0	0.8	2.4	0.0
410	poly(oxyethylene)nonylphenyl ether	0.5	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
411	formaldehyde	1.0	0.1	0.0	0.0	0.3	0.0	0.0	0.6	0.1
412	manganese and its compounds	3.2	0.0	0.0	0.0	0.1	0.0	0.1	3.1	0.0
438	methylnaphthalene	3.1	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0
448	methylenebis(4,1-phenylene) diisocyanate	3.6	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0
453	molybdenum and its compounds	5.4	0.0	0.0	0.0	0.1	0.0	2.4	2.9	0.0
	Target chemical substances total	659.4	37.6	0.6	0.0	40.8	0.0	176.8	389.9	13.9