

Kyocera Group Site Information

Kyocera Corporation Shiga Gamo Plant



Profile

Location	10-1 Kawai-cho, Higashiomi-shi, Shiga
Products manufactured	Fine ceramic components, metallized products, single crystal products, structural components
Number of employees	871
Land area	140,504 m ²
Total floor space	67,295 m ²

Environmental Performance

Items	Units	FY 2008		FY 2009	
		Amount	Specific consumption	Amount	Specific consumption
Electricity	kWh	76,020,321	2,712	69,249,578	3,003
Fuel (kerosene, A heavy oil, LPG, natural gas)	kℓ (crude-oil based)	4,404	0.16	4,001	0.17
CO ₂	t-CO ₂	29,510	1.05	32,307	1.40
Water	m ³	812,779	29.00	784,311	34.01
Industrial waste emissions	kg	552,125	19.70	543,792	23.58
Effluent	m ³	844,795	30.14	758,018	32.87

Comments

2,500kwh electricity in every month was reduced by promoting the installation of high efficiency facilities such as replacing high efficiency compressors at renewal time. 3t of industrial waste discharge in every month was reduced by beginning the internal treatment of a part of it.

Air related

Items	Facility	Legal standard	Internal criteria	Self-management standard	Performance for FY2009		
					Ave	Max	Measurement frequency
Soot and dust (g/Nm ³)	Plant 2, continuous furnace	0.25	0.2	0.025	0.0050	0.0060	Twice/year
	Plant 6, furnace	0.25	0.2	0.025	0.0065	0.0080	Twice/year
	Plant 13, electric furnace	0.25	0.2	0.025	0.002	0.002	Twice/year
NO _x (ppm)	Plant 2, continuous furnace	180	144	129	43	69	Twice/year
SO _x (Nm ³ /h)	N/A			—			

Air emission: total impact (units: tons)

Items	Total emission	
	FY 2008	FY 2009
NO _x	0.29	0.37
SO _x	N/A	

Comments

Less than self-management standards, no incidents exceeded standards.

Water quality

(units: mg/l)

Items	Legal standard	Internal criteria	Self-management standard	Performance for FY2009		
				Ave	Max	Measurement frequency
Hydrogen ion concentration (pH)	6.0~8.5	6.2~8.2	6.7~7.6	7.1	7.3	3 times/daily
Biochemical oxygen demand (BOD)	15	10	7.2	1.0	6.4	Once/week
Chemical oxygen demand (COD)	15	10	9.5	4.9	7.0	Once/daily
Suspended solid (SS)	20	5	4.75	0.9	2.5	Once/week
N-hexane extracts weight	3	1	0.95	<0.5	<0.5	Once/month
Phenols content	1	0.5	0.3	<0.01	<0.01	Once/year
Copper content	1	1	0.03	<0.01	<0.01	Once/year
Zinc content	1	0.5	0.21	0.03	0.03	Once/year
Dissolved iron content	10	5	0.42	<0.1	<0.1	Once/year
Dissolved manganese content	10	5	0.27	0.02	0.02	Once/year
Coliform group number (colonies/ ml)	3,000	350	9	0	0	Once/month
Nitrogen content	8	8	6.5	3.0	4.6	Once/daily
Phosphorous content	0.8	0.5	0.475	0.17	0.31	Once/week

Water pollution: total impact (units: tons)

Items	Total emission	
	FY 2008	FY 2009
Chemical oxygen demand (COD)	3.78	3.70
Biochemical oxygen demand (BOD)	0.90	1.50
Nitrogen	2.86	2.25
Phosphorous	0.14	0.13

Comments

Less than self-management standards, no incidents exceeded standards.

Bad odors

No incidents exceeded standards.

Noise and vibration

No incidents exceeded standards.

PRTR substances

(units: tons)

Number	Substance	Handled amounts	Releases to			Transfers to		Other amounts		
			Air	Water	Soil	Waste	Sewage	Recycled	Consumption	Removed by process
64	Silver and its water-soluble compounds	1.25	0.00	0.04	0.00	0.00	0.00	0.20	1.01	0.00
68	Chrome and trivalent chrome compounds	2.89	0.00	0.00	0.00	0.40	0.00	0.00	2.50	0.00
231	Nickel	1.08	0.00	0.00	0.00	0.01	0.00	0.11	0.96	0.00
232	Nickel compounds	6.91	0.00	0.01	0.00	0.62	0.00	0.00	6.29	0.00
272	bis (2-ethylhexyl) phthalate	1.99	0.00	0.00	0.00	0.01	0.00	1.00	0.93	0.00
311	Manganese and its compounds	4.49	0.00	0.02	0.00	0.25	0.00	0.02	4.21	0.00
346	Molybdenum and its compounds	9.16	0.02	0.00	0.00	0.61	0.00	7.33	1.20	0.00
Target chemical substances total		27.78	0.02	0.06	0.00	1.95	0.00	8.66	17.10	0.00

Comments

About 43% amount used of molybdenum was reduced by reforming crucibles in a manufacturing process for sapphire substrates.