


Kyocera Group Environmental Impact Data

Kyocera Corporation Shiga Gamo Plant



Profile

Location	10-1 Kawai-cho, Higashiomi-shi, Shiga
Products manufactured	Fine ceramic components, metallized products
Number of employees	841
Land area	147,291 m ²
Total floor space	67,295 m ²

Environmental Performance

Items	Units		FY2010		FY2011	
	Amount	Specific consumption	Amount	Specific consumption	Amount	Specific consumption
Energy	kℓ (crude oil based)	kℓ/M Yen	17,958	0.82	18,294	0.64
CO ₂	t-CO ₂	t-CO ₂ /M Yen	25,744	1.17	24,341	0.86
Water	m ³	m ³ /M Yen	791,399	36.0	743,802	26.1
Industrial waste emissions	kg	kg/M Yen	570,064	25.9	526,866	18.5
Effluent	m ³	m ³ /M Yen	668,515	30.4	779,613	27.4

Air related

Items	Facility	Legal standard	Internal criteria	Self-management standard	Performance for FY2011		
					Ave	Max	Measurement frequency
Soot and dust (g/Nm ³)	Plant 6, No.4 electric furnace	0.25	0.20	0.025	0.013	0.014	Twice/year
	Plant 6, No.7 electric furnace	0.25	0.20	0.025	0.0050	0.007	Twice/year
	Plant 13, No.6 electric furnace	0.25	0.20	0.025	0.0030	0.003	Twice/year
NOx (ppm)	N/A						—
SOx (Nm ³ /h)	N/A						—

Air emission: total impact (units: tons)

Items	Total emission	
	FY2010	FY2011
NOx	0.0	1.0
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)	6.0~8.5	6.2~8.2	6.7~7.6	7.1	7.4	3 times/day
Biochemical oxygen demand (BOD)	15	10	7.2	1.7	6.6	Once/week
Chemical oxygen demand (COD)	15	10	9.5	5.3	6.8	Once/day
Suspended solid (SS)	20	5	4.75	2.3	3.8	Once/week
N-hexane extracts weight	3	1	0.95	<0.1	<0.1	Once/month
Phenols content	1	0.5	0.3	<0.01	<0.01	Once/year
Copper content	1	1	0.03	0.00	0.00	Once/year
Zinc content	1	1	0.21	0.02	0.02	Once/year
Dissolved iron content	10	5	0.42	0.01	0.01	Once/year
Dissolved manganese content	10	5	0.27	0.06	0.06	Once/year
Coliform group number (colonies/ mℓ)	3,000	350	9	0.0	0.0	Once/month
Nitrogen content	8	8	6.5	2.4	4.0	Once/day
Phosphorous content	0.8	0.5	0.475	0.20	0.36	Once/week

Water pollution: total impact (units: tons)

Items	Total emission	
	FY2010	FY2011
Chemical oxygen demand (COD)	3.14	4.13
Biochemical oxygen demand (BOD)	1.57	1.33
Nitrogen	1.51	1.87
Phosphorous	0.08	0.16

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
82	silver and its water-soluble compounds	2.9	0.0	0.0	0.0	0.0	0.0	0.5	2.5	0.0
132	cobalt and its compounds	1.4	0.0	0.0	0.0	0.2	0.0	0.0	1.8	0.0
144	inorganic cyanide compounds (except complex salts and cyanates)	1.1	0.0	0.0	0.0	0.4	0.0	0.7	0.0	0.0
308	nickel	1.1	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.0
309	nickel compounds	10.6	0.0	0.0	0.0	1.0	0.0	0.0	9.6	0.0
354	di-n-butyl phthalate	1.1	0.0	0.0	0.0	0.2	0.0	0.4	0.5	0.0
355	bis(2-ethylhexyl)phthalate	2.1	0.0	0.0	0.0	0.1	0.0	1.1	1.0	0.0
412	manganese and its compounds	6.2	0.0	0.0	0.0	0.2	0.0	0.1	6.4	0.0
453	molybdenum and its compounds	6.0	0.0	0.0	0.0	1.5	0.0	0.7	4.0	0.0
Target chemical substances total		32.6	0.0	0.0	0.0	3.6	0.0	3.5	26.7	0.0