Kyocera Group Site Information

KYOCERA KINSEKI Yamagata Corporation

Profile

Location	5850 Higashine-koh, Higashine-shi, Yamagata
Products manufactured	Crystal units, crystal oscillators, crystal filters, industrial components
Number of employees	440
Land area	69,332 m²
Total floor space	35,214 m²

Environmental Performance

Items	Units		FY 2008		FY 2009	
	Amount	Specific consumption	Amount	Specific consumption	Amount	Specific consumption
Electricity	kWh	kWh/M Yen	25,163,282	2,311	28,358,627	3,265
Fuel (diesel fuel, kerosene, heavy oil, gasoline, LPG)	kℓ (crude-oil based)	kℓ/M Yen	508	0.047	373	0.043
CO_2	t-CO_2	t-CO_2/M Yen	13,287	1.22	13,525	1.56
Water	m³	m³/M Yen	80,020	7.35	69,301	7.98
Industrial waste emissions	kg	kg/M Yen	314,398	28.88	381,552	43.93
Effluent	m³	m³/M Yen	24,831	2.28	21,817	2.51

Comments

The gross amounts of electricity consumption and CO_2 emission and these per net sales (the amount / million Yen) were got worse by production increase of artificial crystal on first half although promoting the countermeasure which heat source for air –conditioning is replaced with a centrifugal chiller.
The gross amounts of fuel consumption and it per net sales (the amount / million Yen) were improved by changing the heat source.
The gross amounts of industrial wastes discharge and it per net sales (t / million Yen) were got worse although promoting the selling abandoned plastics as a valuable resource.

Air related

Items	Facility	Legal standard	Internal criteria	Self-management standard	Performance for FY2009		
					Ave	Max	Measurement frequency
Soot and dust (g/Nm³)	Sectional boiler (MF5-N7SA)	0.30	—	0.2	0.035	0.005	Twice/year
	Multi-tube flow-through boiler (AI-1000H)	0.30	—	0.2	0 .06	0.11	Twice/year
NOx (ppm)	Sectional boiler (MF5-N7SA)	180	—	60	43	49	Twice/year
	Multi-tube flow-through boiler (AI-1000H)	180	—	60	43	51	Twice/year
SOx (Nm³/h)	Sectional boiler (MF5-N7SA)	4.94	—	0.4	0.02	0.02	Twice/year
	Multi-tube flow-through boiler (AI-1000H)	4.94	—	0.4	0.03	0.04	Twice/year

Air emission: total impact (units: tons)

Items	Total emission	
	FY 2008	FY 2009
NOx	0.08	0.07
SOx	0.17	0.14

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)	5.8~8.6	—	6.3~8.1	7.4	7.9	Once/month
Biochemical oxygen demand (BOD)	25	—	23	6.8	22.0	Once/month
Suspended solid (SS)	60	—	13	1.5	5.5	Once/month
N-hexane extracts weight	5	—	0.9	<0.5	<0.5	Once/month
Phenols content	5	—	0.45	<0.04	<0.04	Once/year
Copper content	1	—	0.09	<0.01	<0.01	Once/year
Zinc content	2	—	0.45	<0.05	<0.05	Once/year
Dissolved iron content	10	—	0.45	<0.05	<0.05	Once/year
Dissolved manganese content	5	—	0.7	0.24	0.24	Once/year
Phosphorous content	1	—	0.09	<0.05	<0.05	Once/year

Water pollution: total impact (units: tons)

Items	Total emission	
	FY 2008	FY 2009
Biochemical oxygen demand (BOD)	0.09	0.15
Phosphorous	0	0

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
283	Hydrogen fluoride and its water-soluble salts	3.07	0	0	0	1.21	0	0	0	0
Target chemical substances total		3.07	0	0	0	1.21	0	0	0	0

Comments Hydrogen fluoride and its water-soluble salts were reduced by decreasing the exchange frequency of new liquid because of decreasing the operation number of growth-furnaces due to production decrease of artificial crystal.