

Kyocera Group Site Information

KYOCERA SLC Technologies Corporation Kyoto Ayabe Plant



Profile

Location	1 Mikata-cho, Ayabe-shi, Kyoto
Products manufactured	Organic multilayer substrates
Number of employees	199
Land area	151,608 m ²
Total floor space	26,998 m ²

Environmental Performance

Items	Units	FY 2008		FY 2009	
		Amount	Specific consumption	Amount	Specific consumption
Electricity	kWh	39,099,726	6,261	39,368,127	4,319
Fuel (diesel fuel, kerosene, heavy oil, gasoline, LPG)	kℓ (crude-oil based)	380	0.061	332	0.036
CO ₂	t-CO ₂	11,204	1.79	14,180	1.56
Water	m ³	704,990	112.9	693,927	76.1
Industrial waste emissions	kg	772,421	123.7	582,320	63.9
Effluent	m ³	703,548	112.7	693,927	76.1

Comments

The gross amount of electricity consumption and CO₂ emission were increased by production increase, but these per net sales (the amount / million Yen) were improved.
Water consumption and it per net sales (the amount / million Yen) were improved by reviewing the quantity of water supply of production facilities.
Industrial wastes discharge and it per net sales (the amount / million Yen) were improved by treating waste fluid at the plant.

Air related

Items	Facility	Legal standard	Internal criteria	Self-management standard	Performance for FY2009		
					Ave	Max	Measurement frequency
Soot and dust (g/Nm ³)	A boiler	0.3	—	0.011	0.005	0.005	Twice/year
	B boiler	0.3	—	0.011	0.005	0.005	Twice/year
	Warm water boiler	0.3	—	0.011	0.005	0.007	Once/year
NO _x (ppm)	A boiler	180	—	130	63	65	Twice/year
	B boiler	180	—	130	80	95	Twice/year
	Warm water boiler	180	—	130	44	44	Once/year
SO _x (Nm ³ /h)	A boiler	3.5	—	0.01	0.004	0.004	Twice/year
	B boiler	3.5	—	0.01	0.005	0.007	Twice/year
	Warm water boiler	3.5	—	0.01	0.009	0.009	Once/year

Air emission: total impact (units: tons)

Items	Total emission	
	FY 2008	FY 2009
NO _x	1.04	1.34
SO _x	0.11	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	—	6.2~8.0	7.1	6.5~7.6	Once/week
Biochemical oxygen demand (BOD)	120	—	9.0	0.9	3.9	Once/week
Chemical oxygen demand (COD)	120	—	9.0	2.9	7.1	Once/week
Suspended solid (SS)	200	—	4.5	2.0	2.0	Once/week
N-hexane extracts weight	5	—	0.9	0.5	0.5	Once/year
Phenols content	5	—	0.45	0.5	0.5	Once/year
Copper content	3	—	0.9	0.1	0.3	Once/week
Zinc content	2	—	0.9	0.1	0.1	Once/year
Dissolved iron content	10	—	4.5	0.01	0.01	Once/year
Dissolved manganese content	10	—	4.5	0.03	0.1	Once/week
Coliform group number (colonies/ mℓ)	3,000	—	315	0	0	Once/week
Nitrogen content	120	—	54	4.1	12.4	Once/week
Phosphorous content	16	—	7.2	0.1	0.3	Once/week

Water pollution: total impact (units: tons)

Items	Total emission	
	FY 2008	FY 2009
Chemical oxygen demand (COD)	1.43	1.98
Biochemical oxygen demand (BOD)	0.53	0.65
Nitrogen	2.53	2.83
Phosphorous	0.07	0.09

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
207	Copper water-soluble salt	54.92	0	0.06	0	0	0	8.86	21.18	24.82
310	Formaldehyde	7.10	0	0	0	0	0	0	0	7.10
311	Manganese and its compounds	1.07	0	0	0	1.07	0	0	0	0
Target chemical substances total		63.10	0	0.06	0	1.07	0	8.86	21.18	31.93

Comments

The amounts used of water-soluble salt of copper and manganese were increased by production increase.