



Kyocera Group Environmental Impact Data

KYOCERA SLC Technologies Corporation Kyoto Ayabe Plant





Profile

Location	1 Mikata-cho, Ayabe-shi, Kyoto
Products manufactured	Organic multilayer substrates
Number of employees	203
Landarea	151,608 m ²
Total floor space	26,998 m ²

Environmental Performance

Items	Units		FY 2010		FY 2011	
	Amount	Specific consumption	Amount	Specific consumption	Amount	Specific consumption
Energy	kℓ (crudeoil based)	kℓ/M Yen	10,375	1.47	11,729	1.15
CO ₂	t-CO ₂	t-CO ₂ /M Yen	14,135	2.00	13,178	1.29
Water	m ³	m ³ /M Yen	740,594	105	902,795	88
Industrial waste emissions	kg	kg/M Yen	468,050	66	471,940	46
Effluent	m ³	m ³ /M Yen	740,594	105	897,804	88

Air related

Items	Facility	Legal standard	Internal criteria	Self-management standard	Performance for FY2011		
					Ave	Max	Measurement frequency
Soot and dust (g/Nm ³)	A boiler	0.3	—	0.011	0.0055	0.0060	Twice/year
	B boiler	0.3	—	0.011	0.0050	0.0050	Twice/year
	Warm water boiler	0.3	—	0.011	0.0090	0.0090	Once/year
NO _x (ppm)	A boiler	260	—	180	53	57	Twice/year
	B boiler	260	—	180	57	57	Twice/year
	Warm water boiler	180	—	130	43	43	Once/year
SO _x (Nm ³ /h)	A boiler	3.5	—	0.01	0.003	0.003	Twice/year
	B boiler	3.5	—	0.01	0.003	0.003	Twice/year
	Warm water boiler	4.0	—	0.01	0.004	0.004	Once/year

Air emission: total impact (units: tons)

Items	Total emission	
	FY 2010	FY 2011
NO _x	1.17	0.68
SO _x	0.12	0.05

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	—	6.2~8.0	7.0	6.0~7.8	Once/week
Biochemical oxygen demand (BOD)	160	—	9.0	0.8	6.7	Once/week
Chemical oxygen demand (COD)	160	—	9.0	5.4	8.6	Once/week
Suspended solid (SS)	200	—	4.5	<1	<1	Once/week
N-hexane extracts weight	5	—	0.9	<0.5	<0.5	Once/year
Phenols content	5	—	0.45	<0.1	<0.1	Once/year
Copper content	3	—	0.9	0.2	0.5	Once/week
Zinc content	2	—	0.45	<0.01	<0.01	Once/year
Dissolved iron content	10	—	4.5	0.09	0.09	Once/year
Dissolved manganese content	10	—	4.5	0.32	3.28	Once/week
Coliform group number (colonies/ mℓ)	3,000	—	315	0.7	35.0	Once/week
Nitrogen content	120	—	54	4.5	9.0	Once/week
Phosphorous content	16	—	7.2	0.2	0.4	Once/week

Water pollution: total impact (units: tons)

Items	Total emission	
	FY 2010	FY 2011
Chemical oxygen demand (COD)	3.69	4.82
Biochemical oxygen demand (BOD)	0.94	0.75
Nitrogen	4.00	4.02
Phosphorous	0.14	0.14

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
71	ferric chloride	118.4	0.0	0.0	0.0	0.0	0.0	0.0	118.4	0.0
80	xylene	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
272	copper salts(water-soluble, except complex salts)	102.2	0.0	0.1	0.0	0.0	0.0	17.8	63.6	20.6
395	water-soluble salts of peroxodisulfuric acid	31.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	0.0
411	formaldehyde	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9
412	manganese and its compounds	2.3	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0
Target chemical substances total		270.6	0.0	0.1	0.0	2.3	0.0	17.8	214.7	35.5