

# Kyocera Group Site Information

## Kyocera Chemical Corporation Kawaguchi Plant



### Profile

Location	5-14-25, Ryouke, Kawaguchi, Saitama
Products manufactured	Development and manufacture of epoxy molding compounds for semiconductor encapsulation, flexible copper clad, molding dies, molded products
Number of employees	402
Land area	49,113m <sup>2</sup>
Total floor space	42,435m <sup>2</sup>

### Environmental Performance

Items	Units		FY 2006		FY 2007	
	Amount	Specific consumption	Amount	Specific consumption	Amount	Specific consumption
Electricity	kWh	kWh/M Yen	7,070,273	1,208	7,071,640	1,414
Fuel (natural gas, LPG, A heavy oil)	kℓ (crude-oil based)	kℓ/M Yen	634.8	0.11	639.1	0.13
CO <sub>2</sub>	t-CO <sub>2</sub>	t-CO <sub>2</sub> /M Yen	4,586	0.78	4,585	0.92
Water	m <sup>3</sup>	m <sup>3</sup> /M Yen	93,770	16.02	95,387	19.07
Industrial waste emissions	kg	kg/M Yen	223,140	38.13	263,116	52.61
Effluent	m <sup>3</sup>	m <sup>3</sup> /M Yen	92,141	15.74	95,387	19.07

#### Comments

The amount for electricity and fuel consumption was about the same as last year but our specific consumption per net sales of energy worsened due to the decrease net sales.

We are consolidating secondary power station transformers to reduce electricity consumption.

### Air related

Items	Facility	Legal standard	Internal criteria	Self-management standard	Performance for FY 2007		
					Ave	Max	Measurement frequency
Soot and dust (g/Nm <sup>3</sup> )	Flow-through boiler 1	—	—	—	—	—	Once/every 5 years
	Flow-through boiler 2	—	—	—	—	—	Once/every 5 years
	S Heat catalyst boiler	0.3	0.24	0.013	0.009	0.011	Twice/year
NOx (ppm)	Flow-through boiler 1	150	120	108	63	71.0	Twice/year
	Flow-through boiler 2	150	120	108	54	55	Twice/year
	S Heat catalyst boiler	180	144	118	71.5	91.0	Twice/year
SOx (Nm <sup>3</sup> /h)	S Heat catalyst boiler	0.446	—	—	0.004	0.005	Twice/year

### Air emission: total impact (units: tons)

Items	Total emission	
	FY 2006	FY 2007
NOx	0.50	0.57
SOx	0.01	0

#### 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 FY 2007		
				Ave	Max	Measurement frequency
Hydrogen ion concentration (pH)	5.8~8.6	—	6.5~8.2	7.50	7.60	Once/year
Biochemical oxygen demand (BOD)	25	—	9	1.41	5.40	6 times/year
Chemical oxygen demand (COD)	160	—	8.8	3.36	5.60	6 times/year
Suspended solid (SS)	60	—	4.5	1.61	3.70	6 times/year
N-hexane extracts weight	5	—	0.9	<0.5	<0.5	6 times/year
Phenols content	5	—	0.45	<0.01	<0.01	Twice/year
Nitrogen content	120	—	4.9	3.04	4.50	6 times/year
Phosphorous content	16	—	0.2	0.12	0.17	6 times/year

### Water pollution: total impact (units: tons)

Items	Total emission	
	FY 2006	FY 2007
Chemical oxygen demand (COD)	0.26	0.24
Biochemical oxygen demand (BOD)	0.17	0.10
Nitrogen	0.26	0.22
Phosphorous	0.007	0.003

#### 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
25	Antimony and its composites	2.3	0	0	0	0	0	0	2.3	0
103	Ethylene glycol monomethyl ether acetate	25.7	0.1	0	0	0.1	0	0	0	25.6
177	Styrene	2.6	0	0	0	2.6	0	0	0	0
198	Hexamethylenetetramine	89.4	0	0	0	0.3	0	0	57.8	31.3
266	Phenol	13.2	0	0	0	0	0	0	6.1	7.1
	Target chemical substances total	133.3	0.1	0	0	3.0	0	0	66.2	64.0

#### Comments

The amounts handled increased last year. Also, the transferred amount of styrene waste increased.