

●Environmental Data for Individual Plants and Group Companies in FY2023

Ogaki Plant

<No.1 Wastewater Measurement>

Item	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
pH	-	5.8～8.6	5.8～8.6	6.0～8.3	7.3	8.5	

<No.2 Wastewater Measurement>

Item	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
pH	-	5.8～8.6	5.8～8.6	6.0～8.3	7.1	8.1	
BOD (Biochemical oxygen demand)	mg / L	160	15	15	2.0	9.3	
COD (Chemical Oxygen Demand)	mg / L	160	Regulation of total emission	Regulation of total emission	2.4	5.8	
SS (Suspended Solids)	mg / L	200	30	30	<1.3	<4	
Copper	mg / L	3	2	1	0.1	0.3	
Lead and lead compounds	mg / L	0.1	0.1	0.03	<0.01	<0.01	
Cyanide compounds	mg / L	1	0.1	0.1	<0.01	<0.01	
n-H mineral oils	mg / L	5	5	5	<1	<1	
Nitrogen	mg / L	120	60	60	1.6	4.6	
Phosphorus	mg / L	16	8	8	<0.067	<0.14	
Boron and boron compounds	mg / L	10	10	10	0.1	0.2	
Ammonia and ammonium compounds,nitrite and nitrate compounds	mg / L	100	100	100	<1.42	<4.1	

<Air Measurement>

Item	Equipment	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
Soot	Boiler No.15	g/m ³ N	0.3	0.27	0.27	0.001	0.001	
	Boiler No.16	g/m ³ N	0.3	0.27	0.27	0.002	0.002	
	Boiler No.17	g/m ³ N	0.3	0.27	0.27	0.001	0.001	
	Boiler No.18	g/m ³ N	0.3	0.27	0.27	0.001	0.001	
	Boiler No.19	g/m ³ N	0.3	0.27	0.27	0.001	0.001	
	Boiler No.20	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	Boiler No.21	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	Boiler No.22	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	Boiler No.23	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	Boiler No.24	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	Boiler No.25	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	Boiler No.26	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	Gas Turbine No.1	g/m ³ N	0.05	0.05	0.05	0.001	0.001	
	Gas Turbine No.2	g/m ³ N	0.05	0.05	0.05	0.001	0.001	
NOx (Nitrogen oxides)	Boiler No.15	ppm	260	260	260	92	92	
	Boiler No.16	ppm	260	260	260	86	86	
	Boiler No.17	ppm	260	260	260	92	92	
	Boiler No.18	ppm	260	260	260	85	85	
	Boiler No.19	ppm	260	260	260	88	88	
	Boiler No.20	ppm	150	150	150	84	84	
	Boiler No.21	ppm	150	150	150	46	46	
	Boiler No.22	ppm	150	150	150	45	45	
	Boiler No.23	ppm	150	150	150	41	41	
	Boiler No.24	ppm	150	150	150	41	41	
	Boiler No.25	ppm	150	150	150	41	41	
	Boiler No.26	ppm	150	150	150	37	37	
	Gas Turbine No.1	ppm	70	70	70	21	25	
	Gas Turbine No.2	ppm	70	70	70	21	24	

<Noise Measurement>

Place	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
North (morning・evening)	dB	65	65	65	50	54	
East (morning・evening)	dB	65	65	65	46	55	
South (morning・evening)	dB	65	65	65	48	54	
West (morning・evening)	dB	65	65	65	55	58	
North (night)	dB	60	60	60	48	52	
East (night)	dB	60	60	60	42	45	
South (night)	dB	60	60	60	44	46	
West (night)	dB	60	60	60	54	56	

Aoyanagi Plant

<No.5 Wastewater Measurement>

Item	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
pH	-	5.8~8.6	5.8~8.6	6.0~8.3	7.0	7.6	
BOD	mg / L	160	15	15	0.9	2.4	
COD	mg / L	160	Regulation of total emission	Regulation of total emission	0.3	2.0	
SS	mg / L	200	30	30	1.4	8.0	
Copper	mg / L	3	2	1	0.1	0.5	
Lead and lead compounds	mg / L	0.1	0.1	0.03	0.01	0.01	
Fluorine and fluorine compounds	mg / L	8	8	5	0.1	0.1	
Cyanide compounds	mg / L	1	0.1	0.1	0.01	0.01	
n-H mineral oils	mg / L	5	5	5	1	1	
Nitrogen	mg / L	120	60	60	1.6	3.2	
Phosphorus	mg / L	16	8	8	0.1	0.2	
Boron and boron compounds	mg / L	10	10	10	0.1	0.1	
Ammonia and ammonium compounds, nitrite and nitrate compounds	mg / L	100.0	100	100	1.3	2.7	
Selenium and selenium compounds	mg / L	0.1	0.1	-	0.0	0.1	

<No.6 Wastewater Measurement>

Item	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
pH	-	5.8~8.6	5.8~8.6	6.0~8.3	7.9	8.0	
BOD	mg / L	160	15	15	0.5	0.9	
COD	mg / L	160	Regulation of total emission	Regulation of total emission	0.5	3.1	
SS	mg / L	200	30	30	1.0	1.0	
Cyanide compounds	mg / L	1	0.1	0.1	0.01	0.01	
Phenol	mg / L	5	0.4	0.4	0.1	0.1	
n-H mineral oils	mg / L	5	5	5	1.0	1.0	
Nitrogen	mg / L	120	60	60	0.7	1.1	
Phosphorus	mg / L	16	8	8	0.1	0.1	

<Air Measurement>

Item	Equipment	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
Soot	Boiler No.2	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	Gas Turbine No.1	g/m ³ N	0.05	0.05	0.05	0.001	0.001	
	Gas Turbine No.2	g/m ³ N	0.05	0.05	0.05	0.001	0.001	
NOx	Boiler No.2	ppm	150	150	150	89	90	
	Gas Turbine No.1	ppm	70	70	70	17	24	
	Gas Turbine No.2	ppm	70	70	70	20	28	

<Noise Measurement>

Place	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
East (morning・evening)	dB	65	65	60	50	53	
South (morning・evening)	dB	65	65	60	49	50	
West (morning・evening)	dB	65	65	60	44	56	
North (morning・evening)	dB	65	65	60	47	61	
East (night)	dB	60	60	55	47	50	
South (night)	dB	60	60	55	47	48	
West (night)	dB	60	60	55	41	44	
North (night)	dB	60	60	55	43	47	

Gama Plant

<Air Measurement>

Item	Equipment	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
Soot	Gas engine	g/m ³ N	0.05	0.05	0.05	<0.001	<0.001	
NOx	Gas engine	ppm	600	600	600	72	84	

<Noise Measurement>

Place	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
East (morning・evening)	dB	65	65	60	43	48	
South (morning・evening)	dB	65	65	60	40	44	
East (night)	dB	60	60	55	41	45	
South (night)	dB	60	60	55	37	41	

Ogaki Central Plant

<Wastewater Measurement>

Item	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
pH	-	5.8~8.6	5.8~8.6	6.0~8.3	6.9	7.4	
BOD	mg / L	160	15	15	1.6	3.5	
COD	mg / L	160	Regulation of total emission	Regulation of total emission	1.8	3.0	
SS	mg / L	200	30	30	<2.0	6.0	
Copper	mg / L	3	2	1	0.1	0.9	
Lead and lead compounds	mg / L	0.1	0.1	0.03	0.01	0.01	
Cyanide compounds	mg / L	1	0.1	0.1	<0.02	0.01	
n-H mineral oils	mg / L	5	5	5	<1	<1	
Nitrogen	mg / L	120	60	60	2.7	3.4	
Phosphorus	mg / L	16	8	8	<0.05	<0.05	
Boron and boron compounds	mg / L	10	10	10	0.1	0.2	
Ammonia and ammonium compounds,nitrite and nitrate compounds	mg / L	100	100	100	1.9	2.8	

<Air Measurement>

Item	Equipment	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
Soot	B-1-1 Boiler	g/m ³ N	0.1	0.09	0.09	0.000	0.000	
	B-1-2 Boiler	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	B-1-3 Boiler	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	B-1-4 Boiler	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	B-1-5 Boiler	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	B-1-6 Boiler	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	B-1-7 Boiler	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	B-1-8 Boiler	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	B-1-9 Boiler	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	B-1-10 Boiler	g/m ³ N	0.1	0.09	0.09	0.001	0.001	
	Gas engine Unit 1	g/m ³ N	0.05	0.05	0.05	0.002	0.002	
	Gas engine Unit 2	g/m ³ N	0.05	0.05	0.05	0.002	0.002	
Nox	B-1-1 Boiler	ppm	150	150	150	25	25	
	B-1-2 Boiler	ppm	150	150	150	24	24	
	B-1-3 Boiler	ppm	150	150	150	26	26	
	B-1-4 Boiler	ppm	150	150	150	27	27	
	B-1-5 Boiler	ppm	150	150	150	23	23	
	B-1-6 Boiler	ppm	150	150	150	33	33	
	B-1-7 Boiler	ppm	150	150	150	28	28	
	B-1-8 Boiler	ppm	150	150	150	30	30	
	B-1-9 Boiler	ppm	150	150	150	28	28	
	B-1-10 Boiler	ppm	150	150	150	29	29	
	Gas engine Unit 1	ppm	600	600	600	145	150	
	Gas engine Unit 2	ppm	600	600	600	155	200	

<Noise Measurement>

Place	Unit	National standard	City standard	Voluntary standard	Average	Maximum	Note
North (morning・evening)	dB	50	50	50	43	45	
East No.1 (morning・evening)	dB	50	50	50	45	47	
East No.2 (morning・evening)	dB	60	60	60	43	47	
South (morning・evening)	dB	60	60	60	39	43	
West (morning・evening)	dB	50	50	50	43	47	
North (night)	dB	45	45	45	41	44	
East No.1 (night)	dB	45	45	45	43	44	
East No.2 (night)	dB	50	50	50	41	44	
South (night)	dB	50	50	50	37	40	
West (night)	dB	45	45	45	42	44	