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1 Honsha Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	150	78.9
	Gas turbine	35	3
	Furnace	190	97.5
		144	98
Soot dust	Boiler	0.1	Less than 0.01
	Gas turbine	0.05	3
	Furnace	0.2	Less than 0.02
SOx	[Total amount regulation]	50.00	2.28

- ¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³; SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance)
- ² Measurement values indicate the maximum value for the corresponding equipment. The measured value is oxygen corrected. For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.
- ³ Measurement not carried out because the equipment is inactive.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	6.3-7.1
BOD	25 (20)	1.0
COD	—	4.2
SS	30 (20)	0.4
Oil	5	0.2
Copper	1	0.01
Fluorine	8	0.08
Zinc	2	0.19
Soluble iron	10	Less than 0.05
Soluble manganese	10	0.06
Total nitrogen	231.2	112.0
Total phosphorus	26.74	9.44

- * For pH, range is indicated.
- Note:
- The regulation values of BOD and SS are indicated by "maximum (daily average)".
 - Units are mg/L except for pH.
 - Units for total nitrogen and total phosphorus are kg/day.
 - All other regulation items not stated are below the quantifying lower limit (not detected).
- Other regulation items: phenol, cadmium, cyanogen, organic phosphorus, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropane, thiuram, simazine, thiobencarb, benzene, and selenium
- pH: Hydrogen ion concentration · BOD: Biochemical oxygen demand
COD: Chemical oxygen demand · SS: Concentration of suspended solids in water

- Total CO₂ emissions: 62,200 tons-CO₂
- Waste generation amount: 1,000 tons
- PRTR emissions: 3.0 tons

2 Environment-related accidents and lawsuits, etc.

- None

2 Motomachi Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	104	3
		80	61.1
		150	44.4
		144	57.5
	Drying furnace	184	57.5
Soot dust	Gas engine	200	148.9
		0.05	Less than 0.01
	Boiler	0.1	Less than 0.01
	Drying furnace	0.3	Less than 0.01
		0.2	Less than 0.01
Gas engine	0.05	4	
VOC	Painting facility	700	232
		400	4
	Cleaning facility	400	27
SOx	[Total amount regulation]	56.8	12.08

- ¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³; VOC: ppmC; SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance)
- ² Measurement values indicate the maximum value for the corresponding equipment. The measured value is oxygen corrected. For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.
- ³ Measurement not carried out because the equipment is inactive.
- ⁴ Since the frequency of measurement is once every five years, there are no measurement results for FY2019.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	6.3-7.0
BOD	25 (20)	1.6
COD	—	6.2
SS	30 (20)	1.7
Oil	5	0.5
Copper	1	0.01
Fluorine	8	0.67
Zinc	2	0.16
Soluble iron	5	Less than 0.05
Soluble manganese	5	0.2
Total nitrogen	284.7	101.9
Total phosphorus	28.36	5.60

- * For pH, range is indicated.
- Note:
- The regulation values of BOD and SS are indicated by "maximum (daily average)".
 - Units are mg/L except for pH.
 - Units for total nitrogen and total phosphorus are kg/day.
 - All other regulation items not stated are below the quantifying lower limit (not detected).
- Other regulation items: phenol, cadmium, cyanogen, organic phosphorus, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropane, thiuram, simazine, thiobencarb, benzene, and selenium
- pH: Hydrogen ion concentration · BOD: Biochemical oxygen demand
COD: Chemical oxygen demand · SS: Concentration of suspended solids in water

- Total CO₂ emissions: 95,200 tons-CO₂
- Waste generation amount: 2,900 tons
- PRTR emissions: 145.4 tons

2 Environment-related accidents and lawsuits, etc.

- None

3 Kamigo Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	144	79.1
		150	83.6
	Drying furnace	237	58.3
		190	50.3
	Melting furnace	171	³
		144	50.0
Furnace	144	54.7	
Gas turbine	56	³	
Soot dust	Boiler	0.1	Less than 0.01
		0.3	Less than 0.01
	Drying furnace	0.2	Less than 0.01
	Melting furnace	0.1	Less than 0.01
		0.2	0.01
	Furnace	0.2	Less than 0.01
Gas turbine	0.05	³	
SOx	(Total amount regulation)	40.32	4.65
Dioxin	Melting furnace	1	0.23
		5	0.057
	Drying furnace	1	0.000048

- ¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³; SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance); dioxin: ng-TEQ/Nm³
- ² Measurement values indicate the maximum value for the corresponding equipment.
The measured value is oxygen corrected.
For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.
- ³ Measurement not carried out because the equipment is inactive.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	6.7-7.1
BOD	25 (20)	1.7
COD	-	4.8
SS	30 (20)	0.4
Oil	5	0.2
Copper	1	Less than 0.01
Fluorine	8	0.22
Zinc	2	0.16
Soluble iron	5	Less than 0.05
Soluble manganese	5	Less than 0.05
Total nitrogen	155.5	29.4
Total phosphorus	16.96	0.59

- * For pH, range is indicated.
Note:
- The regulation values of BOD and SS are indicated by "maximum (daily average)".
- Units are mg/L except for pH.
- Units for total nitrogen and total phosphorus are kg/day.
- All other regulation items not stated are below the quantifying lower limit (not detected).
Other regulation items: phenol, cadmium, cyanogen, organic phosphorus, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropene, thiuram, simazine, thiobencarb, benzene, and selenium
- pH: Hydrogen ion concentration - BOD: Biochemical oxygen demand
- COD: Chemical oxygen demand - SS: Concentration of suspended solids in water

- Total CO₂ emissions: 120,500 tons-CO₂
- Waste generation amount: 3,900 tons
- PRTR emissions: 6.6 tons

2 Environment-related accidents and lawsuits, etc.

- None

4 Takaoka Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	144	91.5
		150	75.2
	Drying furnace	184	103.5
	Gas turbine	50	29.5
	Gas engine	200	168.2
Soot dust	Boiler	0.1	0.0093
		0.3	0.0062
	Drying furnace	0.2	0.0139
	Gas turbine	0.05	³
	Gas engine	0.05	³
VOC	Painting facility	400	143
		700	140
	Cleaning facility	400	148
SOx	(Total amount regulation)	47.68	1.26

- ¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³; VOC: ppmC; SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance)
- ² Measurement values indicate the maximum value for the corresponding equipment.
The measured value is oxygen corrected.
For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.
- ³ Since the frequency of measurement is once every five years, there are no measurement results for FY2019.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	6.6-7.6
BOD	25 (20)	1.1
COD	-	15.1
SS	30 (20)	1.1
Oil	5	0.2
Copper	1	0.03
Fluorine	8	0.83
Zinc	2	0.51
Soluble iron	5	0.12
Soluble manganese	5	0.06
Total nitrogen	199.9	41.1
Total phosphorus	21.94	2.72

- * For pH, range is indicated.
Note:
- The regulation values of BOD and SS are indicated by "maximum (daily average)".
- Units are mg/L except for pH.
- Units for total nitrogen and total phosphorus are kg/day.
- All other regulation items not stated are below the quantifying lower limit (not detected).
Other regulation items: phenol, cadmium, cyanogen, organic phosphorus, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropene, thiuram, simazine, thiobencarb, benzene, and selenium
- pH: Hydrogen ion concentration - BOD: Biochemical oxygen demand
- COD: Chemical oxygen demand - SS: Concentration of suspended solids in water

- Total CO₂ emissions: 92,900 tons-CO₂
- Waste generation amount: 3,900 tons
- PRTR emissions: 70.4 tons

2 Environment-related accidents and lawsuits, etc.

- None

5 Miyoshi Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	144	88.8
		144	86.7
	Furnace	171	64.2
		190	36.5
	Gas turbine	35	3
Diesel engine	200	137.6	
Soot dust	Gas engine	200	169
	Boiler	0.3	Less than 0.01
	Furnace	0.2	0.01
	Gas turbine	0.05	3
	Diesel engine	0.1	Less than 0.01
SOx	Gas engine	0.05	4
	(Total amount regulation)	17.17	2.88

¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³;

SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance)

² Measurement values indicate the maximum value for the corresponding equipment.

The measured value is oxygen corrected.

For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.

³ Measurement not carried out because the equipment is inactive.

⁴ Since the frequency of measurement is once every five years, there are no measurement results for FY2018.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	6.7-7.3
BOD	25 (20)	2.1
COD	—	4.4
SS	30 (20)	1.5
Oil	5	0.3
Copper	1	Less than 0.01
Fluorine	8	0.09
Zinc	2	0.15
Soluble iron	5	Less than 0.05
Soluble manganese	5	Less than 0.05
Total nitrogen	38.1	23.0
Total phosphorus	4.35	0.24

* For pH, range is indicated.

Note:

· The regulation values of BOD and SS are indicated by "maximum (daily average)".

· Units are mg/L except for pH.

· Units for total nitrogen and total phosphorus are kg/day.

· All other regulation items not stated are below the quantifying lower limit (not detected). Other regulation items: phenol, cadmium, cyanogen, organic phosphorus, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropane, thiuram, simazine, thiobencarb, benzene, and selenium

· pH: Hydrogen ion concentration · BOD: Biochemical oxygen demand

· COD: Chemical oxygen demand · SS: Concentration of suspended solids in water

■ Total CO₂ emissions: 48,000 tons-CO₂

■ Waste generation amount: 1,100 tons

■ PRTR emissions: 2.6 tons

2 Environment-related accidents and lawsuits, etc.

■ None

6 Tsutsumi Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	150	99.8
		144	64
	Melting furnace	144	49.4
	Drying furnace	184	75.5
	Gas turbine	35	23.6
Soot dust	Gas engine	200	171.7
	Boiler	0.3	Less than 0.01
	Boiler	0.1	Less than 0.01
	Melting furnace	0.2	Less than 0.01
	Drying furnace	0.2	0.03
VOC	Gas turbine	0.03	3
	Gas engine	0.05	3
	Painting facility	700	172
SOx	Painting facility	400	8
	Cleaning facility	400	3
Dioxin	(Total amount regulation)	70.34	1.68
	Melting furnace	5	0.042

¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³;

VOC: ppmC; SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance); dioxin: ng-TEQ/Nm³

² Measurement values indicate the maximum value for the corresponding equipment.

The measured value is oxygen corrected.

For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.

³ Since the frequency of measurement is once every five years, there are no measurement results for FY2019.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	6.7-7.2
BOD	25 (20)	2.2
COD	—	10.8
SS	30 (20)	0.9
Oil	5	0.2
Copper	1	0.02
Fluorine	8	1.27
Zinc	2	0.44
Soluble iron	5	0.12
Soluble manganese	5	0.14
Total nitrogen	167.2	44.0
Total phosphorus	19.60	3.98

* For pH, range is indicated.

Note:

· The regulation values of BOD and SS are indicated by "maximum (daily average)".

· Units are mg/L except for pH.

· Units for total nitrogen and total phosphorus are kg/day.

· All other regulation items not stated are below the quantifying lower limit (not detected).

Other regulation items: phenol, cadmium, cyanogen, organic phosphorus, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropane, thiuram, simazine, thiobencarb, benzene, and selenium

· pH: Hydrogen ion concentration · BOD: Biochemical oxygen demand

· COD: Chemical oxygen demand · SS: Concentration of suspended solids in water

■ Total CO₂ emissions: 125,200 tons-CO₂

■ Waste generation amount: 3,100 tons

■ PRTR emissions: 76.2 tons

2 Environment-related accidents and lawsuits, etc.

■ One incident of non-compliance

- Refer to p. 49 of the Environmental Report 2019

7 Myochi Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	150	73.5
		144	85.7
	Furnace	171	57.0
		144	91.0
	Drying furnace	184	33.2
	Melting furnace	171	3
		144	57.5
	Waste incinerator	237	35.8
		200	55.7
	Gas turbine	56	41.0
Gas engine	200	188.0	
Soot dust	Boiler	0.1	4
		0.3	0.0107
	Furnace	0.2	0.0037
	Drying furnace	0.2	0.0026
	Melting furnace	0.2	0.0086
	Waste incinerator	0.08	0.0029
		0.04	0.0014
Gas turbine	0.05	4	
Gas engine	0.05	4	
SOx	(Total amount regulation)	11.10	1.12
Dioxin	Melting furnace	5	0.086
	Sand regeneration furnace	1	0.000084
Hydrogen chloride	Waste incinerator	700	1.86
Mercury	Waste incinerator	Particulate mercury	More than 0.052
		Gaseous mercury	More than 0.618
		Total mercury	More than 0.618

- 1 Regulation value unit: NOx: ppm; soot dust: g/Nm³; SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance); dioxin: ng-TEQ/Nm³
- 2 Measurement values indicate the maximum value for the corresponding equipment. The measured value is oxygen corrected. For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.
- 3 Measurement not carried out because the equipment is inactive.
- 4 Since the frequency of measurement is once every five years, there are no measurement results for FY2019.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	7.0-7.7
BOD	25 (20)	1.2
COD	—	6.5
SS	30 (20)	0.5
Oil	5	0.1
Copper	1	Less than 0.01
Fluorine	8	0.16
Zinc	2	0.08
Soluble iron	5	Less than 0.05
Soluble manganese	5	0.06
Total nitrogen	42.7	18.2
Total phosphorus	4.88	1.08

- * For pH, range is indicated.
- Note:
- The regulation values of BOD and SS are indicated by "maximum (daily average)".
 - Units are mg/L except for pH.
 - Units for total nitrogen and total phosphorus are kg/day.
 - All other regulation items not stated are below the quantifying lower limit (not detected).
- Other regulation items: phenol, cadmium, cyanogen, organic phosphorous, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropane, thiuram, simazine, thiobencarb, benzene, and selenium
- pH: Hydrogen ion concentration
 BOD: Biochemical oxygen demand
 COD: Chemical oxygen demand
 SS: Concentration of suspended solids in water

- Total CO₂ emissions: 75,200 tons-CO₂
- Waste generation amount: 7,800 tons
- PRTR emissions: 0.6 tons

2 Environment-related accidents and lawsuits, etc.

- None

8 Shimoyama Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	150	66.1
	Gas turbine	35	3
	Gas engine	200	180.3
Soot dust	Boiler	0.1	0.0011
	Gas turbine	0.05	3
	Gas engine	0.05	4
SOx	(Total amount regulation)	11.46	0.00

- 1 Regulation value unit: NOx: ppm; soot dust: g/Nm³; SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance)
- 2 Measurement values indicate the maximum value for the corresponding equipment. The measured value is oxygen corrected. For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.
- 3 Measurement not carried out because the equipment is inactive.
- 4 Since the frequency of measurement is once every five years, there are no measurement results for FY2019.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	6.7-7.4
BOD	25 (20)	1.8
COD	—	10.1
SS	30 (20)	2.1
Oil	5	0.3
Copper	1	Less than 0.01
Fluorine	8	0.1
Zinc	2	0.06
Soluble iron	5	0.09
Soluble manganese	5	0.07
Total nitrogen	21.7	11.1
Total phosphorus	2.59	0.90

- * For pH, range is indicated.
- Note:
- The regulation values of BOD and SS are indicated by "maximum (daily average)".
 - Units are mg/L except for pH.
 - Units for total nitrogen and total phosphorus are kg/day.
 - All other regulation items not stated are below the quantifying lower limit (not detected).
- Other regulation items: phenol, cadmium, cyanogen, organic phosphorous, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropane, thiuram, simazine, thiobencarb, benzene, and selenium
- pH: Hydrogen ion concentration
 BOD: Biochemical oxygen demand
 COD: Chemical oxygen demand
 SS: Concentration of suspended solids in water

- Total CO₂ emissions: 30,700 tons-CO₂
- Waste generation amount: 600 tons
- PRTR emissions: 0.2 tons

2 Environment-related accidents and lawsuits, etc.

- None

9 Kinuura Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	130	³
		150	41.9
	Furnace	144	120
	Melting furnace	171	55.6
Soot dust	Boiler	0.1	Less than 0.01
	Furnace	0.2	0.04
	Melting furnace	0.2	0.03
SOx	(Total amount regulation)	6.06	1.05
Dioxin	Melting furnace	5	1.1

¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³; SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance); dioxin: ng-TEQ/Nm³

² Measurement values indicate the maximum value for the corresponding equipment.

The measured value is oxygen corrected.
For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.

³ Measurement not carried out because the equipment is inactive.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.0-9.0	7.0-7.7
BOD	—	4.1
COD	25 (20)	6.4
SS	30 (20)	4.8
Oil	5	0.9
Copper	1	Less than 0.01
Fluorine	15	0.16
Zinc	2	0.12
Soluble iron	5	0.13
Soluble manganese	5	Less than 0.05
Total nitrogen	52.2	13.6
Total phosphorus	6.39	0.56

* For pH, range is indicated.

Note:

· The regulation values of COD and SS are indicated by "maximum (daily average)".

· Units are mg/L except for pH.

· Units for total nitrogen and total phosphorus are kg/day.

· All other regulation items not stated are below the quantifying lower limit (not detected).

Other regulation items: phenol, cadmium, cyanogen, organic phosphorus, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropane, thiuram, simazine, thiobencarb, benzene, and selenium

· pH: Hydrogen ion concentration · BOD: Biochemical oxygen demand

· COD: Chemical oxygen demand · SS: Concentration of suspended solids in water

■ Total CO₂ emissions: 89,300 tons-CO₂

■ Waste generation amount: 1,000 tons

■ PRTR emissions: 0.6 tons

2 Environment-related accidents and lawsuits, etc.

■ None

10 Tahara Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	142	52
	Furnace	144	53.6
	Drying furnace	184	67.3
	Melting furnace	144	32.4
	Waste incinerator	200	82.2
	Gas turbine	56	43.3
	Gas engine	200	152.4
Soot dust	Boiler	0.2	Less than 0.01
	Furnace	0.2	Less than 0.01
	Drying furnace	0.2	Less than 0.01
	Melting furnace	0.2	Less than 0.01
	Waste incinerator	0.08	³
		0.15	Less than 0.01
	Gas turbine	0.05	Less than 0.01
VOC	Painting facility	700	190
	Cleaning facility	400	28
	SOx	(Total amount regulation)	22.95
Dioxin	Melting furnace	5	0.15
		1	³
	Sand regeneration furnace	5	0.000020
Hydrogen chloride	Waste incinerator	700	0.15
Mercury	Particulate mercury	50	More than 0.056
	Gaseous mercury		More than 0.618
	Total mercury		More than 0.618

¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³; VOC: ppmC; SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance); dioxin: ng-TEQ/Nm³

² Measurement values indicate the maximum value for the corresponding equipment.

The measured value is oxygen corrected.

For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.

³ Measurement not carried out because the equipment is inactive.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.0-9.0	7.0-7.7
BOD	—	3.5
COD	25 (20)	9.0
SS	30 (20)	2.3
Oil	2	0.3
Copper	1	Less than 0.01
Fluorine	15	1.77
Zinc	2	0.41
Soluble iron	10	0.15
Soluble manganese	10	0.07
Total nitrogen	311.7	55.2
Total phosphorus	34.84	3.61
Lead	0.1	Less than 0.01

* For pH, range is indicated.

Note:

· The regulation values of COD and SS are indicated by "maximum (daily average)".

· Units are mg/L except for pH.

· Units for total nitrogen and total phosphorus are kg/day.

· All other regulation items not stated are below the quantifying lower limit (not detected).

Other regulation items: phenol, cadmium, cyanogen, organic phosphorus, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropane, thiuram, simazine, thiobencarb, benzene, and selenium

· pH: Hydrogen ion concentration

· BOD: Biochemical oxygen demand

· COD: Chemical oxygen demand

· SS: Concentration of suspended solids in water

■ Total CO₂ emissions: 160,200 tons-CO₂

■ Waste generation amount: 3,600 tons

■ PRTR emissions: 151.2 tons

2 Environment-related accidents and lawsuits, etc.

■ None

11 Teiho Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	150	59.8
	Boiler	0.1	3
Soot dust	Drying furnace	0.2	Less than 0.01
	SOx (Total amount regulation)	1.66	0.00

1 Regulation value unit: NOx: ppm; soot dust: g/Nm³; SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance)

2 Measurement values indicate the maximum value for the corresponding equipment. The measured value is oxygen corrected. For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.

3 Since the frequency of measurement is once every five years, there are no measurement results for FY2019.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	6.7-7.5
BOD	25 (20)	2.2
COD	—	5.8
SS	30 (20)	1.7
Oil	2	0.6
Copper	1	0.02
Fluorine	8	0.11
Zinc	2	0.07
Soluble iron	5	Less than 0.05
Soluble manganese	5	Less than 0.05
Total nitrogen	9.4	2.9
Total phosphorus	0.94	0.17

* For pH, range is indicated.

Note:

· The regulation values of BOD and SS are indicated by "maximum (daily average)".

· Units are mg/L except for pH.

· Units for total nitrogen and total phosphorus are kg/day.

· All other regulation items not stated are below the quantifying lower limit (not detected). Other regulation items: phenol, cadmium, cyanogen, organic phosphorus, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,3-dichloropropane, thiuram, simazine, thiobencarb, benzene, and selenium

· pH: Hydrogen ion concentration · BOD: Biochemical oxygen demand

· COD: Chemical oxygen demand · SS: Concentration of suspended solids in water

- Total CO₂ emissions: 9,700 tons-CO₂
- Waste generation amount: 100 tons

2 Environment-related accidents and lawsuits, etc.

- None

12 Hirose Plant

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	150	72.2
	Gas turbine	35	3
	Diesel engine	500	413.3
400		247.8	
Soot dust	Boiler	0.1	4
	Gas turbine	0.05	3
	Diesel engine	0.1	0.03
SOx	(Total amount regulation)	1.06	0.00

1 Regulation value unit: NOx: ppm; soot dust: g/Nm³; SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance)

2 Measurement values indicate the maximum value for the corresponding equipment. The measured value is oxygen corrected. For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.

3 Measurement not carried out because the equipment is inactive.

4 Since the frequency of measurement is once every five years, there are no measurement results for FY2019.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	7.1-7.7
BOD	25 (20)	4.4
COD	—	4.8
SS	30 (20)	3.7
Oil	2	0.5
Copper	1	Less than 0.01
Fluorine	8	0.73
Zinc	2	0.08
Soluble iron	10	Less than 0.05
Soluble manganese	10	Less than 0.05
Total nitrogen	43.6	2.7
Total phosphorus	2.71	0.35

* For pH, range is indicated.

Note:

· The regulation values of BOD and SS are indicated by "maximum (daily average)".

· Units are mg/L except for pH.

· Units for total nitrogen and total phosphorus are kg/day.

· All other regulation items not stated are below the quantifying lower limit (not detected). Other regulation items: phenol, cadmium, cyanogen, organic phosphorus, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,3-dichloropropane, thiuram, simazine, thiobencarb, benzene, and selenium

· pH: Hydrogen ion concentration · BOD: Biochemical oxygen demand

· COD: Chemical oxygen demand · SS: Concentration of suspended solids in water

- Total CO₂ emissions: 38,000 tons-CO₂
- Waste generation amount: 700 ton
- PRTR emissions: 24.1 tons

2 Environment-related accidents and lawsuits, etc.

- None

13 Head Office Technology Site

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	150	76.6
	Gas turbine	35	3
	Gas engine	200	156.4
Soot dust	Boiler	0.1	Less than 0.01
	Drying furnace	0.2	Less than 0.02
	Gas turbine	0.05	3
VOC	Gas engine	0.05	4
	Painting facility	700	27

1 Regulation value unit: NOx: ppm; soot dust: g/Nm³; VOC: ppmC;

2 Measurement values indicate the maximum value for the corresponding equipment.

The measured value is oxygen corrected.

3 Measurement not carried out because the equipment is inactive.

4 Since the frequency of measurement is once every five years, there are no measurement results for FY2019.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

As wastewater and PRTR emissions are processed at the Honsha Plant wastewater treatment plant, refer to the water quality data of Honsha Plant.

- Total CO₂ emissions: 81,200 tons-CO₂
- Waste generation amount: 1,100 tons

2 Environment-related accidents and lawsuits, etc.

- None

14 Higashi-Fuji Technical Center

1 Environmental Data

Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	180	106.51
	Gas turbine	70	38.8
	Diesel engine	950	822.1
Soot dust	Boiler	0.3	0.0164
	Gas turbine	0.05	0.0135
	Diesel engine	0.1	0.0329

¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³
² Measurement values indicate the maximum value for the corresponding equipment.
 The measured value is oxygen corrected.

Water quality (Water Pollution Control Law, Prefectural Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	6.7-7.4
BOD	25 (20)	2.7
COD	—	5.4
SS	70 (50)	3.6
Oil	5	0.1
Copper	1	Less than 0.01
Fluorine	8	0.09
Zinc	2	Less than 0.01
Soluble iron	10	0.08
Soluble manganese	10	Less than 0.01

* For pH, range is indicated.
 Note:
 - The regulation values of BOD and SS are indicated by "maximum (daily average)".
 - Units are mg/L except for pH.
 - Units for total nitrogen and total phosphorus are kg/day.
 - All other regulation items not stated are below the quantifying lower limit (not detected).
 Other regulation items: phenol, cadmium, cyanogen, organic phosphorous, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropene, thiuram, simazine, thiobencarb, benzene, and selenium
 - pH: Hydrogen ion concentration - BOD: Biochemical oxygen demand
 - COD: Chemical oxygen demand - SS: Concentration of suspended solids in water

- Total CO₂ emissions: 17,600 tons-CO₂
- Waste generation amount: 400 tons
- PRTR emissions: 0.4 tons

2 Environment-related accidents and lawsuits, etc.

- None

15 Shibetsu Proving Ground

1 Environmental Data

Air (Air Pollution Control Law, Hokkaido Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	180	91
Soot dust		0.3	Less than 0.01

¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³
² Measurement values indicate the maximum value for the corresponding equipment.
 The measured value is oxygen corrected.

Water quality (Water Pollution Control Law, Hokkaido Ordinance)

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	6.6-8.1
BOD	30 (24)	7.9
COD	—	—
SS	50 (40)	17.0
Oil	5	1.5

* For pH, range is indicated.
 Note:
 - The regulation values of BOD and SS are indicated by "maximum (daily average)".
 - COD is not measured because there is no legal standard.
 - Units are mg/L except for pH.
 - Units for total nitrogen and total phosphorus are kg/day.
 - All other regulation items not stated are below the quantifying lower limit (not detected).
 Other regulation items: phenol, cadmium, cyanogen, organic phosphorous, hexavalent chromium, arsenic, total mercury, alkyl mercury, PCB, total chromium, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropene, thiuram, simazine, thiobencarb, benzene, and selenium
 - pH: Hydrogen ion concentration - BOD: Biochemical oxygen demand

- Total CO₂ emissions: 1,900 tons-CO₂
- Waste generation amount: 42 tons
- PRTR emissions: 0.04 tons

2 Environment-related accidents and lawsuits, etc.

- None

16 Head Office Management Site

1 Environmental Data

Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	144	77.1
		150	46.9
	Gas turbine	35	3
	Drying furnace	144	46.2
Soot dust	Boiler	0.3	Less than 0.01
		0.1	4
	Gas turbine	0.05	3
	Drying furnace	0.2	Less than 0.02
	Furnace	0.2	Less than 0.02

¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³
² Measurement values indicate the maximum value for the corresponding equipment.
 The measured value is oxygen corrected.
³ Measurement not carried out because the equipment is inactive.
⁴ Since the frequency of measurement is once every five years, there are no measurement results for FY2019.

Water quality (Water Pollution Control Law, Prefectural Ordinance)

As wastewater and PRTR emissions are processed at the Honsha Plant wastewater treatment plant, refer to the water quality data of Honsha Plant.

- Total CO₂ emissions: 43,900 tons-CO₂
- Waste generation amount: 400 tons

2 Environment-related accidents and lawsuits, etc.

- None

17 Tokyo Management Site

1 Environmental Data

■ Air (Air Pollution Control Law, Metropolitan Ordinance)

■ Total CO₂ emissions: 2,800 tons-CO₂
 ■ Waste generation amount: 200 tons

Tokyo Building

Substance name	Equipment name	Regulation value ¹	Measurement value ²
Soot dust	Boiler	0.15	Less than 0.001

¹ Regulation value unit: Soot dust: g/Nm³, oxygen conversion value (4 vol%)

² Measurement value indicates the maximum value of measurements taken twice per year.

Note:

· The measurement value of NOx is not stated because it is not subject to measurement under the law and the Tokyo Metropolitan

2 Environment-related accidents and lawsuits, etc.

■ None

18 Nagoya Management Site

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

■ Total CO₂ emissions: 4,100 tons-CO₂
 ■ Waste generation amount: 100 tons

Nisshin Training Center

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Absorption cold/warm water generator	150	12.7
	Warm water generator 1	150	32.9
	Warm water generator 2	150	31
Soot dust	Absorption cold/warm water generator	0.1	—
	Warm water generator 1	0.1	—
	Warm water generator 2	0.1	—

¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³

² NOx measurement value indicates the measurement result with respect to the regulation value for the corresponding equipment.

2 Environment-related accidents and lawsuits, etc.

■ None

19 Logistics Management Site

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Tobishima Logistics Center

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	144	97.7
		120	90.1
Soot dust	Boiler	0.15	Less than 0.015
SOx	(Total amount regulation)	0.85	0.78

Kamigo Logistics Center

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	144	3
Soot dust	Boiler	0.2	3

Nagoya Wharf Center

Substance name	Equipment name	Regulation value ¹	Measurement value ²
NOx	Boiler	237	3
Soot dust	Boiler	0.15	3

¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³;
SOx: Nm³/H (SOx is the total amount regulation for the Aichi Prefectural Ordinance)

² Measurement values indicate the maximum value for the corresponding equipment.
The measured value is oxygen corrected.
For SOx, it is a calculated value based on the Aichi Prefectural Ordinance.

³ Measurement not carried out because the equipment is inactive.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

Tobishima Logistics Center

Item	Regulation value	Measurement value
		Maximum
pH*	5.0-9.0	6.4-7.5
COD	40 (30)	12.9
SS	80 (60)	8.0
Oil	5	0.5
Total nitrogen	6.8	0.6
Total phosphorus	0.69	0.04

Kamigo Logistics Center

Item	Regulation value	Measurement value
		Maximum
pH*	5.8-8.6	6.7-7.3
BOD	25 (20)	1.3
COD	-	5.2
SS	30 (20)	1.0
Oil	5	0.2
Total nitrogen	11.3	1.1
Total phosphorus	1.14	0.03

Nagoya Wharf Center

Item	Regulation value	Measurement value
		Maximum
pH*	5.0-9.0	6.9-8.2
COD	160 (120)	9.2
SS	70 (50)	6.9
Oil	5	0.9
Total nitrogen	5.86	0.48
Total phosphorus	0.823	0.030

* For pH, range is indicated.

Note:

- The regulation values of BOD, COD and SS are indicated by "maximum (daily average)".
- Units are mg/L except for pH.
- Units for total nitrogen and total phosphorus are kg/day.
- Regulation items such as heavy metals are not used, so they are not stated.
- pH: Hydrogen ion concentration - BOD: Biochemical oxygen demand

■ Total CO₂ emissions: 9,900 tons-CO₂
■ Waste generation amount: 300 tons

2 Environment-related accidents and lawsuits, etc.

■ None

20 Biotechnology and Afforestation Laboratory

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

No corresponding equipment

■ Total CO₂ emissions: 500 tons-CO₂
■ Waste generation amount: 25 tons

2 Environment-related accidents and lawsuits, etc.

■ None

21 Environmental Center

1 Environmental Data

■ Air (Air Pollution Control Law, Prefectural Ordinance)

Substance name	Equipment name	Regulation value ¹	Measurement value ²	
NOx	Waste incinerator	111	57.6	
Soot dust		0.02	Less than 0.01	
Hydrogen chloride		240	58	
Dioxin		1	0.0049	
Mercury		Particulate mercury	50	More than 0.052
		Gaseous mercury		More than 0.618
	Total mercury	More than 0.618		

¹ Regulation value unit: NOx: ppm; soot dust: g/Nm³;
hydrogen chloride: ppm; dioxin: ng-TEQ/Nm³

² Measurement values indicate the maximum value for the corresponding equipment.
The measured value is oxygen corrected.

■ Water quality (Water Pollution Control Law, Prefectural Ordinance)

As wastewater is processed at the adjoining Motomachi Plant wastewater treatment plant, refer to the water quality data of Motomachi Plant.

2 Environment-related accidents and lawsuits, etc.

■ None

- For an outline of the sites, visit the Toyota Motor Corporation website.

Web <https://global.toyota/en/company/profile/facilities/>

- The management facilities of each work site are as follows.

Head Office Management Site

Main Building, Toyota Learning Center, Office Building 1-5, Suppliers Center, Toyota Kaikan, Powertrain Building No. 1, Production Engineering Cooperative Building, and other buildings

Tokyo Management Site

Tokyo Building and Ikebukuro Building

Nagoya Management Site

Nagoya Office

Logistics Management Site

Kamigo Logistics Center, Tobishima Logistics Center, Nagoya and Tokai Wharf Centers, Oguchi Parts Center, and Inazawa Parts Center