Environmental Data by Manufacturing Facility in Japan

Overview

Manufacturing facility	Awazu Plant (established in 1938)	Kanazawa Plant (established in 2007)	Osaka Plant (established in 1952)	Ibaraki Plant (established in 2007)	Oyama Plant (established in 1962)	Koriyama Plant (established in 1994)	Shonan Plant (established in 1966)
Location	Komatsu, Ishikawa Prefecture	Kanazawa, Ishikawa Prefecture	Hirakata, Osaka Prefecture	Hitachinaka, Ibaraki Prefecture	Oyama, Tochigi Prefecture	Koriyama, Fukushima Prefecture	Hiratsuka, Kanagawa Prefecture
Main products	Small and medium–sized bulldozers, small hydraulic excavators, small and medium–sized wheel loaders, motor graders, etc.	Ultra–large hydraulic excavators, large presses, medium presses	Large bulldozers, medium-and large-sized hydraulic excavators, mobile crushers/recyclers/tub grinders (crushers, soil stabilizers, tub grinders, etc.)	Large wheel loaders, dump trucks	Engines for construction/industrial machinery, diesel generators, hydraulic equipment, axle, excimer lasers, etc.	Hydraulic cylinders, swivel joints, gear pumps	Control equipment for construction and mining equipment, hybrid components. Thermoelectric modules, temperature control equipment, etc.
Site/Green Landscape (1,000 m²)	700/86	134/30	572/78	350/73	591/130	297/153	69/14
Number of employees	2,775	682	2,891	887	3,531	436	1,212
Date of ISO14001 certification acquisition	September 1997	May 2007	July 1997	May 2007	May 1997	July 2002	March 2000

*The number of employees includes those working for Komatsu affiliates on the premises.
*The number of employees as of the end of March 2019.

Major Performance

Environmental impact
*Refer to the Calculation Base of Typical Environmental Data for details on the methods used to calculate amounts.
*Total emissions of waste are expressed as a composite of the amount recycled (excluding valuables) and the amount disposed.
*Recycling rate is calculated by dividing the amount recycled (including valuables) by the amount generated (including valuables).

Item	Actual value	Item	Actual value	Item	Actual value	Item	Actual value	Item	Actual value	Item	Actual value
Total CO_2 emissions	31,035 t–CO	Total CO_2 emissions	1,807 t–CO	Total CO_2 emissions	25,371 t–CO	Total CO_2 emissions	3,659 t–CO_2	Total CO_2 emissions	46,267 t–CO_2	Total CO_2 emissions	8,180 t–CO_2	Total CO_2 emissions	4,099 t–CO_2
NOx total amount	34,497 kg	NOx total amount	— kg	NOx total amount	1,914 kg	NOx total amount	135 kg	NOx total amount	22,393 kg	NOx total amount	34,208 kg	NOx total amount	— kg
SOx total amount	1,582 kg	SOx total amount	0kg	SOx total amount	2 kg	SOx total amount	2 kg	SOx total amount	101 kg	SOx total amount	1,258 kg	SOx total amount	0 kg
Total emissions of waste	1,346 t	Total emissions of waste	72 t	Total emissions of waste	994 t	Total emissions of waste	348 t	Total emissions of waste	2,051 t	Total emissions of waste	699 t	Total emissions of waste	172 t
Amou nt recycled	1,346 t	Amount recycled	72 t	Amount recycled	993 t	Amount recycled	348 t	Amount recycled	2,051 t	Amount recycled	699 t	Amount recycled	172 t
Recycling rate	100%	Recycling rate	100 %	Recycling rate	99.9%	Recycling rate	100 %	Recycling rate	100 %	Recycling rate	100 %	Recycling rate	100 %
BOD emissions	829 kg	BOD emissions	30 kg	BOD emissions	251 kg	BOD emissions	3,442 kg	BOD emissions	752 kg	BOD emissions	35 kg	BOD emissions	996 kg
COD emissions	1,487 kg	COD emissions	196 kg	COD emissions	793 kg	COD emissions	— kg	COD emissions	2,023 kg	COD emissions	147 kg	COD emissions	— kg
Wastewater	507,788 m³	Wastewater	43,353 m³	Wastewater	155,081 m³	Wastewater	22,442 m³	Wastewater	295,720m³	Wastewater	10,422 m³	Wastewater	26,089 m³
Output of in–house power generation	5,972 MWh	Output of in–house power generation	614 MWh	Output of in–house power generation	2,517 MWh	Output of in–house power generation	239 MWh	Output of in–house power generation	5,392 MWh	Output of in–house power generation	4,882 MWh	Output of in–house power generation	238 MWh

Energy consumption
*Refer to the Calculation Base of Typical Environmental Data for details on the methods used to calculate the heat energy conversion factor.

Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)
Electricity	52,706 MWh	499,861	Electricity	4,323 MWh	41,003	Electricity	44,642 MWh	423,381	Electricity	7,623 MWh	72,292	Electricity	72,335 MWh	686,023	Electricity	9,571 MWh	90,767	Electricity	9,478 MWh	89,886
Heavy oil A	1,726 kℓ	67,141	Heavy oil A	0 kℓ	0	Heavy oil A	0 kℓ	0	Heavy oil A	0 kℓ	0	Heavy oil A	22 k ℓ	844	Heavy oil A	1,002 k ℓ	38,978	Heavy oil A	0 k ℓ	0
Kerosene	5kℓ	181	Kerosene	0 kℓ	0	Kerosene	6 kℓ	215	Kerosene	0 kℓ	0	Kerosene	2,052 k ℓ	74,872	Kerosene	0 kℓ	0	Kerosene	0 k ℓ	0
Light oil	188 kℓ	7,154	Light oil	1 k ℓ	31	Light oil	149kℓ	5,650	Light oil	155 k ℓ	5,898	Light oil	2,813 k ℓ	107,020	Light oil	3 kℓ	132	Light oil	0 k ℓ	0
City gas	0 km³	0	City gas	0 km³	0	City gas	2,822 km³	116,290	City gas	0 km³	0	City gas	1,551 km³	63,923	City gas	0 km³	0	City gas	70 km³	2,884
LPG	1,289 t	64,511	LPG	2 t	100	LPG	25 t	1,248	LPG	29 t	1,460	LPG	32 t	1,625	LPG	489 t	24,469	LPG	0 t	0
Gasoline	30 kℓ	993	Gasoline	0 kℓ	0	Gasoline	10 kℓ	325	Gasoline	0 kℓ	0	Gasoline	75 k ℓ	2,503	Gasoline	4 k ℓ	123	Gasoline	0 k ℓ	0
Wood	5,911 t	72,700	Wood	0 t	0	Wood	0 t	0	Wood	232 t	2,859	Wood	0 t	0	Wood	0 t	0	Wood	0 t	0
Total		712,541	Total		41,134	Total		547,109	Total		82,509	Total		936,811	Total		154,469	Total		92,770

Water consumption

Item	Actual value	Item	Actual value	Item	Actual value	Item	Actual value	Item	Actual value	Item	Actual value
Groundwater	507,787 m³	Groundwater	36,789 m³	Groundwater	110,214 m³	Groundwater	0 m³	Groundwater	361,558 m³	Groundwater	0 m³	Groundwater	0 m³
Industrial water	0 m³	Industrial water	0 m³	Industrial water	0 m³	Industrial water	0 m³	Industrial water	0 m³	Industrial water	2,702 m³	Industrial water	0 m³
Supply water	68,076 m³	Supply water	6,564 m³	Supply water	9,680 m³	Supply water	22,442 m³	Supply water	8,720 m³	Supply water	16,640 m³	Supply water	26,088 m³
Total	575,863 m³	Total	43,353m³	Total	119,894 m³	Total	22,442 m³	Total	370,278 m³	Total	19,342 m³	Total	26,088 m³

Compliance Conditions to Major Regulations

Air

Item	Unit	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value
Nitrogen oxides (NOx)	ppm	Diesel engine	950	810	N/A	—	—	Boiler	150	22	Diesel engine	100	39	Diesel engine	950	850	Cogeneration engine	950	780	N/A	—	—
	ppm	Biomass boiler	350	110				Metal furnace	180	93	Biomass boiler	350	140	Gas turbine	70	12						
	ppm	Drying furnace	230	50				Paint drying furnace	230	13												
	ppm							Gas engine	600	8												
Sulfur oxides (SOx)	—	K–value regulation	17.5	2.85							K–value regulation	17.5	0.20	K–value regulation	7.0	0.51	K–value regulation	11.5	0.45			
Soot and dust	g/m³N	Diesel engine	0.1	0.02	N/A	—	—	Boiler	0.05	0.002	Diesel engine	0.1	0.07	Diesel engine	0.1	0.035	Cogeneration engine	0.1	0.046	N/A	—	—
	g/m³N	Biomass boiler	0.3	0.22				Metal furnace	0.10	0.008	Biomass boiler	0.3	0.18	Gas turbine	0.05	0.001						
	g/m³N	Drying furnace	0.2	0.005				Paint drying furnace	0.10	0.005												
	g/m³N							Gas engine	0.04	0.003												

* Regulated values are in accordance with the Air Pollution Control Law and local regulations.
* The application of regulated values of NOx and dust and soot are deferred due to the size (small) of the boilers.

Wastewater

Discharge destination	Regulated value according to the Water Pollution Control Law	Regulated value	Actual value			Regulated value	Actual value			Regulated value	Actual value			Regulated value (Sewage Water Law)	Actual value			Regulated value	Actual value			Regulated value (Sewage Water Law)	Actual value		
			Maximum	Minimum	Average		Maximum	Minimum	Average		Maximum	Minimum	Average		Maximum	Minimum	Average		Maximum	Minimum	Average		Maximum	Minimum	Average
pH	5.8~8.6	5.8~8.6	7.5	6.9	7.1	5.0~9.0	8.4	6.2	7.1	5.8~8.6	7.7	6.6	7.4	5~9	8.8	7.7	8.5	5.8~8.6	7.7	7.0	7.3	5.8~8.6	7.4	6.7	7.0	5~9	8.6	7.3	7.9
BOD (Biochemical oxygen demand)	160mg/ℓ	80	2.4	0.6	1.3	80	0.7	0.5	0.6	45	3.1	ND	1.6	600	300	47	153	25	7.1	0	2.5	40	9.8	ND	3.4	600	170	2	33
COD (Chemical Oxygen Demand)	160mg/ℓ	80	4.3	1.5	2.5	80	10	0.8	3.1	45	7.4	3.6	5.1	—	—	—	—	25	10.8	1.9	6.8	40	21	8.3	14.1	—	—	—	—
Suspended solids (SS)	200mg/ℓ	120	6.0	3.0	5.0	120	5.0	ND	2.8	90	4	ND	3.0	600	580	22	242	50	10.8	1.9	6.5	70	4.6	ND	2.3	600	73	ND	18
Mineral oils	5mg/ℓ	5	ND	ND	ND	5	ND	ND	ND	4	ND	ND	ND	5	3	ND	1.1	5	ND	ND	ND	1	ND	ND	ND	1	ND	ND	ND
Copper	3mg/ℓ	3	ND	ND	ND	3	ND	ND	ND	3	ND	ND	ND	—	—	—	—	3	ND	ND	ND	2	ND	ND	—	3	ND	ND	ND
Zinc	2mg/ℓ	2	0.12	ND	0.08	2	ND	ND	ND	2	ND	ND	ND	—	—	—	—	2	ND	ND	ND	2	ND	ND	—	2	0.14	ND	0.06
Nitrogen	120mg/ℓ	120	3.3	1.1	2.2	120	1.1	0.9	1.0	60	31	7.3	14.3	—	—	—	—	20	9.7	1.4	4.9	120	12	12	—	120	4.2	0.4	2.3
Phosphorus	16mg/ℓ	16	0.24	0.02	0.10	16	0.3	0.1	0.2	8	0.085	0.03	0.05	—	—	—	—	2	0.8	0.2	0.4	16	ND	ND	—	—	—	—	—
Cadmium	0.03mg/ℓ	0.03	ND	ND	ND	0.03	ND	ND	ND	0.003	ND	ND	ND	—	—	—	—	0.03	ND	ND	ND	0.03	ND	ND	—	0.03	ND	ND	ND
Lead	0.1mg/ℓ	0.1	ND	ND	ND	0.1	ND	ND	ND	0.01	ND	ND	ND	—	—	—	—	0.1	ND	ND	ND	0.1	ND	ND	ND	0.1	ND	ND	ND
Chromium (VI)	0.5mg/ℓ	0.5	ND	ND	ND	0.5	ND	ND	ND	0.05	ND	ND	ND	—	—	—	—	0.1	ND	ND	ND	0.2	ND	ND	ND	0.5	ND	ND	ND
Trichloroethylene	0.1mg/ℓ	0.1	ND	ND	ND	0.1	ND	ND	ND	0.01	ND	ND	ND	—	—	—	—	0.1	ND	ND	ND	0.1	ND	ND	—	0.1	ND	ND	ND
Tetrachloroethylene	0.1mg/ℓ	0.1	ND	ND	ND	0.1	ND	ND	ND	0.1	ND	ND	ND	—	—	—	—	0.1	ND	ND	ND	0.1	ND	ND	—	0.1	ND	ND	ND
Dichloromethane	0.2mg/ℓ	0.2	ND	ND	ND	0.2	ND	ND	ND	0.02	ND	ND	ND	—	—	—	—	—	—	—	—	0.2	ND	ND	—	0.2	ND	ND	ND
1,1,1–trichloroethane	3mg/ℓ	3	ND	ND	ND	3	ND	ND	ND	1	ND	ND	ND	—	—	—	—	3	ND	ND	ND	3	ND	ND	—	3	ND	ND	ND

*Regulated values are in accordance with the Water Pollution Control Law, Sewerage Law and local regulations.
*ND ("not detected") indicates a value below the lower limit of detection.
*ND is considered to be the lower limit of detection when calculating the average.
*Other items are confirmed to be below the regulated value.

● Data for Awazu Plant include data for the the Kanazawa Plant Production Department Ⅱ
● Data for the Kanazawa Plant includes Kanazawa Dai–ichi and Dai–ni Plant.
● Data for the Osaka Plants includes data for the Rokko Plant.
● Data for the Shonan Plant include data for KELK Ltd.(excluding GIGAPHOTON, Inc)

Environmental Data by Manufacturing Facility in Japan

Overview	Manufacturing facility	Tochigi Plant (established in 1968)	Development Division, Technology Innovation Center (established in 1985)	Himi Plant (established in 1952)
	Location	Oyama, Tochigi Prefecture	Hiratsuka, Kanagawa Prefecture	Himi, Toyama Prefecture
	Main products	Forklift trucks, mini excavators, mini wheel loaders	R&D for Komatsu Group business fields	Ironcastings, steel castings, molds for casting, etc.
	Site/Green Landscape (1,000 m²)	215/29	195/124	530/148
	Number of employees	640	327	885
	Date of ISO14001 certification acquisition	February 1998	May 2008	January 2000

*The number of employees includes those working for Komatsu affiliates on the premises.
*The number of employees as of the end of March 2019.

Major Performance									
	Environmental impact *Refer to the Calculation Base of Typical Environmental Data for details on the methods used to calculate amounts. *Total emissions of waste are expressed as a composite of the amount recycled (excluding valuables) and the amount disposed. *Recycling rate is calculated by dividing the amount recycled (including valuables) by the amount generated (including valuables).	Item	Actual value	Item	Actual value	Item	Actual value
		Total CO_2 emissions	2,983 t–CO_2	Total CO_2 emissions	1,479 t–CO_2	Total CO_2 emissions	47,048 t–CO_2
		NOx total amount	964 kg	NOx total amount	275 kg	NOx total amount	9,341 kg
		SOx total amount	526 kg	SOx total amount	1 kg	SOx total amount	1,545 kg
		Total emissions of waste	241 t	Total emissions of waste	152 t	Total emissions of waste	6,600 t
		Amount recycled	241 t	Amount recycled	152 t	Amount recycled	6,579 t
		Recycling rate	100 %	Recycling rate	100 %	Recycling rate	99.9 %
		BOD emissions	155 kg	BOD emissions	7 kg	BOD emissions	1,533 kg
		COD emissions	203 kg	COD emissions	11 kg	COD emissions	2,118 kg
		Wastewater	34,794 m³	Wastewater	1,632 m³	Wastewater	511,091 m³
		Output of in–house power generation	244 MWh	Output of in–house power generation	36 MWh	Output of in–house power generation	0 MWh
	Energy consumption *Refer to the Calculation Base of Typical Environmental Data for details on the methods used to calculate the heat energy conversion factor.	Item / Actual consumption / Converted to calorie equivalents (GJ)		Item / Actual consumption / Converted to calorie equivalents (GJ)		Item / Actual consumption / Converted to calorie equivalents (GJ)	
		Electricity	4,962 MWh / 47,060	Electricity	2,862 MWh / 27,148	Electricity	88,041 MWh / 834,976
		Heavy oil A	248 k ℓ / 9,665	Heavy oil A	0 k ℓ / 0	Heavy oil A	1,321 k ℓ / 51,371
		Kerosene	0 k ℓ / 0	Kerosene	96 k ℓ / 3,512	Kerosene	619 k ℓ / 22,600
		Light oil	19 k ℓ / 727	Light oil	11 k ℓ / 415	Light oil	156 k ℓ / 5,938
		City gas	0 km³ / 0	City gas	0 km³ / 0	City gas	0 km³ / 0
		LPG	65 t / 3,243	LPG	7 t / 336	LPG	1,634 t / 81,784
		Gasoline	1 k ℓ / 28	Gasoline	0 k ℓ / 7	Gasoline	0 k ℓ / 0
		Wood	0 t / 0	Wood	0 t / 0	Wood	0 t / 0
		Total	60,723	Total	31,418	Total	996,670
	Water consumption	Item	Actual value	Item	Actual value	Item	Actual value
		Groundwater	40,931 m³	Groundwater	0 m³	Groundwater	511,091m³
		Industrial water	0 m³	Industrial water	0 m³	Industrial water	0 m³
		Supply water	0 m³	Supply water	7,165 m³	Supply water	30,589 m³
		Total	40,931 m³	Total	7,165 m³	Total	541,680 m³

Compliance Conditions to Major Regulations												
Air	Item	Unit	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value
	Nitrogen oxides (NOx)	ppm	Small sized boiler	(260)	83	Service generator	190	90	Annealing furnace	200	100
		ppm				Cold/Hot water generator	390	58	Calciners	220	7 or less
		ppm									
		ppm									
	Sulfur oxides (SOx)	—	K–value regulation	7.0	0.47	K–value regulation	11.5	0.05	K–value regulation	17.5	2 or less
	Soot and dust	g/m³N	Small sized boiler	(0.5)	0.004	Service generator	0.1	0.034	Annealing furnace	0.25	0.03
		g/m³N				Cold/Hot water generator	0.2	0.003	Calciners	0.15	0.01 or less
		g/m³N							Arch furnace	0.1	0.01 or less
		g/m³N									

* Regulated values are in accordance with the Air Pollution Control Law and local regulations.
* The application of regulated values of NOx and dust and soot are deferred due to the size (small) of the boilers.

Wastewater	Discharge destination	Regulated value according to the Water Pollution Control Law	Regulated value	Actual value Maximum	Minimum	Average	Regulated value	Actual value Maximum	Minimum	Average	Regulated value	Actual value Maximum	Minimum	Average
	pH	5.8~8.6	5.8~8.6	8.0	7.2	7.4	5.8~8.6	7.8	7.1	7.4	5.8~8.6	8.4	7.4	7.7
	BOD (Biochemical oxygen demand)	160mg/ℓ	25	8.7	1.8	4.5	10	7	2	4.3	25	5.3	1	2.6
	COD (Chemical Oxygen Demand)	160mg/ℓ	25	10.6	2.1	5.8	25	13	2	6.8	160	5.3	1.8	3.2
	Suspended solids (SS)	200mg/ℓ	50	9.2	1.6	4.8	65	10	ND	4.8	90	37	ND	7.9
	Mineral oils	5mg/ℓ	5	ND	ND	ND	5	ND	ND	ND	5	ND	ND	ND
	Copper	3mg/ℓ	3	ND	ND	ND	1	ND	ND	ND	1	ND	ND	ND
	Zinc	2mg/ℓ	2	0.1	ND	0.1	1	0.06	0.02	0.03	2	0.05	ND	0.03
	Nitrogen	120mg/ℓ	20	9.9	0.6	3.2	—	—	—	—	120	7.7	1.3	4.6
	Phosphorus	16mg/ℓ	2	1.1	ND	0.3	—	—	—	—	16	0.22	0.1	0.13
	Cadmium	0.03mg/ℓ	0.03	ND	ND	ND	0.03	ND	ND	ND	0.03	ND	ND	ND
	Lead	0.1mg/ℓ	0.1	ND	ND	ND	0.1	ND	ND	ND	0.1	ND	ND	ND
	Chromium (VI)	0.5mg/ℓ	0.1	ND	ND	ND	0.5	ND	ND	ND	0.5	ND	ND	ND
	Trichloroethylene	0.1mg/ℓ	0.1	ND	ND	ND	0.1	ND	ND	ND	0.1	ND	ND	ND
	Tetrachloroethylene	0.1mg/ℓ	0.1	ND	ND	ND	0.1	ND	ND	ND	0.1	ND	ND	ND
	Dichloromethane	0.2mg/ℓ	—	—	—	—	0.2	ND	ND	ND	0.2	ND	ND	ND
	1,1,1–trichloroethane	3mg/ℓ	3	ND	ND	ND	3	ND	ND	ND	3	ND	ND	ND

*Regulated values are in accordance with the Water Pollution Control Law, Sewerage Law and local regulations.
*ND ("not detected") indicates a value below the lower limit of detection.
*ND is considered to be the lower limit of detection when calculating the average.
*Other items are confirmed to be below the regulated value.

The number of employees includes those working for Komatsu affiliates on the premises.

Overview	Manufacturing facility	Komatsu NTC Ltd. (established in 1945)	Komatsu Cabtec Co., Ltd. (established in 1918)
	Location	Nanto, Toyama Prefecture	Ryuou–cho, Gamou, Shiga Prefecture
	Main products	Machine tools, wire saws	Cabs for construction equipment, Exhaust–gas aftertreatment device
	Site/Green Landscape (1,000 m²)	208/26	42/10
	Number of employees	1,267	376
	Date of ISO14001 certification acquisition	June 1999	December 2007

*The number of employees includes those working for Komatsu affiliates on the premises.
*The number of employees as of the end of March 2019.

Major Performance									
	Environmental impact *Refer to the Data on Environmental Impact Resulting from Business Activities for details on the methods used to calculate amounts. *Total emissions of waste are expressed as a composite of the amount recycled (excluding valuables) and the amount disposed. *Recycling rate is calculated by dividing the amount recycled (including valuables) by the amount generated (including valuables). *Total emissions of BOD and COD are calcu–latedby multiplying the average concentration by the amount of wastewater.	Item	Actual value	Item	Actual value				
		Total CO_2 emissions	5,284 t–CO_2	Total CO_2 emissions	2,792 t–CO_2				
		NOx total amount	— kg	NOx total amount	— kg				
		SOx total amount	0 kg	SOx total amount	0 kg				
		Total emissions of waste	777 t	Total emissions of waste	116 t				
		Amount recycled	777 t	Amount recycled	75 t				
		Recycling rate	100 %	Recycling rate	98.2 %				
		BOD emissions	644 kg	BOD emissions	1 kg				
		COD emissions	— kg	COD emissions	1 kg				
		Wastewater	560,188 m³	Wastewater	17,021 m³				
		Output of in–house power generation	61 MWh	Output of in–house power generation	0 MWh				
	Energy consumption *The heat energy conversion factor is cal–culated in keeping with "Greenhouse Gas Emissions Calculation" – Reporting Manual, which is based on the act on Promotion of Global Warming Countermeasures.	Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)		
		Electricity	12,548 MWh	119,006	Electricity	5,258 MWh	49,862		
		Heavy oil A	0 k ℓ	0	Heavy oil A	0 k ℓ	0		
		Kerosene	0 k ℓ	0	Kerosene	0 k ℓ	0		
		Light oil	13 k ℓ	513	Light oil	12 k ℓ	453		
		City gas	0 km³	0	City gas	0 km³	0		
		LPG	9 t	461	LPG	189 t	9,454		
		Gasoline	1 k ℓ	21	Gasoline	3 k ℓ	106		
		Total		120,001	Total		59,876		
	Water consumption	Item	Actual value		Item	Actual value			
		Groundwater	560,188 m³		Groundwater	0 m³			
		Industrial water	0 m³		Industrial water	0 m³			
		Supply water	9,588 m³		Supply water	17,021 m³			
		Total	569,776 m³		Total	17,021 m³			

Compliance Conditions to Major Regulations												
Air	Item	Unit	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value				
	Nitrogen oxides (NOx)	ppm	N/A	—	—	N/A	—	—				
	Sulfur oxides (SOx)	—										
	Soot and dust	g/m³N	N/A	—	—	N/A	—	—				

*Regulated values are in accordance with the Air Pollution Control Law and local regulations.

Wastewater	Item	Regulated value according to the Water Pollution Control Law	Regulated value	Actual value Maximum	Minimum	Average	Regulated value	Actual value Maximum	Minimum	Average
	pH	5.8~8.6	5.8~8.6	7.3	6.1	6.9	6~8.5	8.0	6.9	7.4
	Oxygen Demand	160mg/ℓ	160	1.6	ND	1.1	20	4.0	1.0	2.9
	COD (Chemical Oxygen Demand)	160mg/ℓ	—	—	—	—	20	7.6	2.3	4.7
	Suspended solids (SS)	200mg/ℓ	200	3.4	ND	1.5	20	10.4	0.5	1.9
	Mineral oils	5mg/ℓ	5	ND	ND	ND	3	ND	ND	ND
	Copper	3mg/ℓ	—	—	—	—	0.1	ND	ND	ND
	Zinc	2mg/ℓ	—	—	—	—	0.5	0.13	0.03	0.06
	Nitrogen	120mg/ℓ	—	—	—	—	8	6.1	0.5	3.8
	Phosphorus	16mg/ℓ	—	—	—	—	0.6	ND	ND	ND
	Cadmium	0.03mg/ℓ	—	—	—	—	—	—	—	—
	Lead	0.1mg/ℓ	—	—	—	—	—	—	—	—

*Regulated values are in accordance withthe Water Pollution Control Law, Sewerage Law and local regulations.
*ND ("not detected") indicates a value below the lower limit of detection.
* ND is considered to be the lower limit of detection when calculating the average.
*Other items are confirmed to be below the regulated value.

●Data for Komatsu NTC Ltd. include data for the Toyama plant and the Fukuno Plant.