Environmental Performance Data

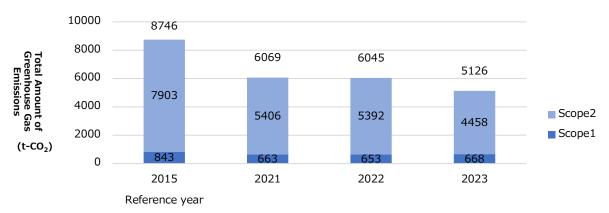
In order to conserve the environment surrounding our sites and comply with the regulations, we perform ongoing management of our facilities, as well as properly manage chemical substances to prevent pollution.

Also, we regularly monitor the burden on the environment from our sites by assessing the actual amount of greenhouse gases, waste material, and water resources emitted/used in business.

Energy Consumption

Total Amount of Greenhouse Gas (GHG) Emissions (Scope 1, Scope 2)

The amount of greenhouse gas emissions from all our sites in Japan is converted to a CO2 equivalent weight as shown below.



The above greenhouse gas emissions amount $(t-CO_2)$ is calculated by taking the total of the WRI/WBCSD GHG Protocol Scope 1 and Scope 2 emission amounts.

[Conversion factor] Purchased electricity: Uses each electric company's conversion factor for the Act on the Rational Use of Energy report

Liquefied petroleum gas: 5.98 tons of CO_2/1,000 m $\dot{}$ (fixed), town gas: 2.23 tons of CO_2/1,000 m $\dot{}$ (fixed),

heat: 0.057 tons of CO₂/GJ (fixed), gasoline: 2.32 tons of CO₂/kL (fixed),

light oil: 2.58 tons of CO $_2/kL$ (fixed), kerosene: 2.49 tons of CO $_2/kL$ (fixed)

Electricity Consumption

The amounts of electricity consumption at our main sites in Japan are shown below.

	Unit	Fiscal 2015 Reference year	Fiscal 2021	Fiscal 2022	Fiscal 2023
Total electricity	MWh	13,636	11,849	11,663	11,119
Renewable electricity	MWh	0	321	690	2,211
Renewable energy ratio	%	0.0	2.7	5.9	19.9

Total Amount of Greenhouse Gas (GHG) Emissions (Scope 3)

The amount of greenhouse gas emissions is converted to a CO_2 equivalent weight as shown below.

			Amount of Em	ission (t-CO ₂)		Ratio of amount for each category to entire amount for Scope 3 in fiscal 2023 (%) 60.4 18.5 6.0 0.7 0.7 0.7 0.1 1.3 3.8 3.8 Applicable applicable 9.3
Category	Category Name	Fiscal 2015 Reference year	Fiscal 2021	Fiscal 2022	Fiscal 2023	category to entire amount for Scope 3 in fiscal
Category 1	Purchased goods and services	97,559.0	52,780.0	56,565.0	42,202.0	60.4
Category 2	Capital goods	4,580.3	1,924.8	4,127.3	12,889.9	18.5
Category 3	Fuel- and energy- related activities not included in Scope 1 or Scope 2	5,331.4	4,485.0	4,335.5	4,210.2	6.0
Category 4	Upstream transportation and distribution	611.7	1,152.9	491.0	467.0	0.7
Category 5	Waste generated in operations	62.1	50.8	44.0	41.3	0.1
Category 6	Business travel	991.5	421.1	703.8	893.2	1.3
Category 7	Employee commuting	3,997.2	2,451.9	2,453.2	2,653.7	3.8
Category 8	Upstream leased assets	Not applicable	Not applicable	Not applicable	Not applicable	
Category 9	Downstream transportation and distribution	Not applicable	Not applicable	Not applicable	Not applicable	
Category 10	Processing of sold products	Not applicable	Not applicable	Not applicable	Not applicable	
Category 11	Use of sold products	9,992.0	7,533.0	7,075.0	6,480.0	9.3
Category 12	End-of-life treatment of sold products	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Category 13	Downstream leased assets	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Category 14	Franchises	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Category 15	Investments	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	Total	123,125.2	70,799.5	75,794.8	69,837.3	100.0

Amount of Waste

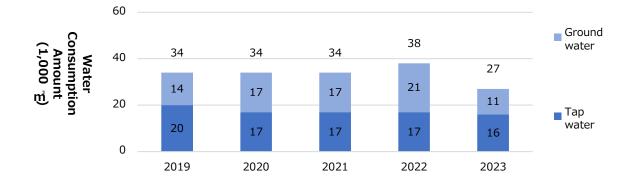
The amount of waste for all our sites in Japan is shown below. We promote the effective utilization of waste through heat recovery and recycling at all of our offices and factories.

We set a goal for 5% or more reduction in the amount of waste, down to 527 tons or less from the 555 ton average of fiscal years 2012 to 2014. Our actual results from fiscal 2023 were 291 tons (-48%).



Water Consumption/Water Drainage

The amount of water consumption and water drainage for our main sites in Japan is shown below.

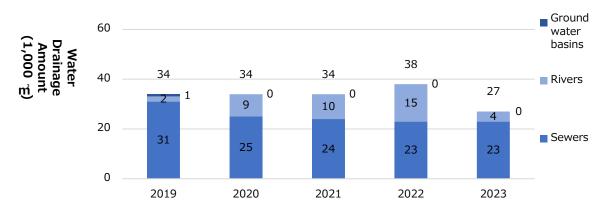


■ Water Consumption Amount

At each site, we use tap water for domestic use and to humidify the office in winter. At our Headquarters, we use ground water to water our plants in summer, and at our Headquarters and the ProDeS Center, we use ground water to melt snow. We use water for our every day needs at our company sites, not for industrial purposes.

For our total water consumption amount, we set a target to reduce it by 1% or more to an amount of 35,600 m³ or less compared to the reference year of 2018. In fiscal 2023, the amount of groundwater used to melt snow fell significantly due to reduced winter snowfall. As a result, we were able to achieve our target, with our actual consumption result at 27,000 m³ (25% reduction).

Our water is used for every day purposes. We do not have any water that can be reused or recycled.



Tap water used for domestic uses drains into the sewer. Ground water used to melt snow drains into the rivers, and water used to water plants drains underground. We have been continuously monitoring and measuring water quality by using our own self management values in order to ensure the quality of water that drains from our main sites.

In fiscal 2023, the amount of groundwater used to melt snow fell due to reduced winter snowfall. As a result, less water drained into rivers.

Results in Handling of Chemical Substances

We tally the amount of chemical substances that are used for purposes such as designing, developing, evaluating, manufacturing, maintaining, or cleaning up the premises no matter how much there is.

Chemical Substances Subject to PRTR Law

The amount of chemical substances subject to the PRTR law that were handled in fiscal 2023 is shown below. None of the chemical substances were in excess of the annual values which require the relevant prefectural authorities to be notified (*4).

Furthermore, no Special Class I Specified Chemical Substances were handled.

We set a goal to limit the amount we handle to less than the average of fiscal years 2012 to 2014, which was 0.132 tons. Our actual result from fiscal 2023 was 0.14 tons (42.9% increase), partly due to the impact of the addition of target chemical substances following the revision of the PRTR Law.

PRTR Law (Class I Specified Chemical Substances)										
Chemical Substance Name	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022	Fiscal 2023					
n-Alkylbenzenesulfonic acid and its salts	0.031	0.044	0.031	0.031	0.036					
Poly(oxyethylene) alkyl ether	0.022	0.025	0.021	0.023	0.026					
2-aminoethanol	0.026	0.027	0.025	0.019	0.025					
N,N-Bis(2-hydroxyethyl)alkanamide (*5)	-	-	-	-	0.017					
Silver and its water-soluble compounds	0.039	0.031	0.022	0.019	0.012					
Heptane (*5)	-	-	-	-	0.008					
Ethylenediaminetetraacetic acid and its	-	-	-	-	0.004					
Diethylene glycol monobutyl ether (*5)	-	-	-	-	0.003					
Methyl methacrylate	0.000	0.006	0.006	0.004	0.002					
Hexane	0.001	0.001	0.000	0.000	0.002					
Other	0.004	0.003	0.003	0.003	0.003					
Total	0.123	0.136	0.107	0.098	0.140					

Annual Handled Amount of Chemical Substances Subject to the PRTR Law (Class I Specified Chemical Substances) (Tons)

*4: 1 ton or more per year for Class I Specified Chemical Substances, 0.5 tons or more per year for Special Class I Specified Chemical Substances.

*5: Added as a target chemical substance due to enforcement of PRTR Law revision in April 2023.

■ VOC (Volatile Organic Compound)

Although there are no specific facilities that are subject to VOC emission control, we make an independent effort to maintain and manage the amount of VOCs handled.

We set a goal to limit the amount we handle to less than the average of fiscal years 2012 to 2014, which was 1.266 tons. Our actual results from fiscal 2023 were 0.524 tons (-58.6%).

Annual Amount of VOC Handled								
Chemical Substance Name	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022	Fiscal 2023			
Isopropyl alcohol	0.770	0.790	0.809	0.465	0.360			
Butyl acetate	0.066	0.046	0.058	0.074	0.040			
Ethanol	0.134	0.097	0.053	0.052	0.110			
Other	0.043	0.017	0.018	0.023	0.014			
Total	1.013	0.950	0.938	0.614	0.524			

Greenhouse Gases

The amount of greenhouse gases that were handled in fiscal 2023 is shown below. The annual amount handled in fiscal 2023 is converted to a CO_2 equivalent weight of approximately 4 tons.

Our reduction target for the amount (tons) of greenhouse gas emissions handled applies to reduction at all our sites.

Annual amount of greenhouse gases handled (Converted to CO2)									
Chemical Substance Name	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022	Fiscal 2023				
1,1,1,2-tetrafluoroethane (HFC-134a)	13.974	11.517	7.061	6.155	4.119				
1,1-Difluoroethane (HFC-152a)	0.000	0.054	0.059	0.233	0.107				
CO ₂ not from energy	0.000	0.001	0.000	0.000	0.020				
Total	13.974	11.572	7.120	6.388	4.246				

Compliance with All Environmental Laws and Regulations.

In order to conserve the environment surrounding our sites and comply with laws and regulations, we will regularly measure water quality, noise output, and vibration output.

Water Quality Measurement Results

We make efforts to maintain the water quality of drainage from Headquarters, the ProDeS Center, and the PFU Techno Wise Takamatsu Plant. The results of the measurement did not exceed the legal regulations, and there was no problem with water quality.

	Regulated substances	Unit	Regulation value	Fiscal 2023 measured value	Evaluation
Headquarters (Bld. A & B)	Hydrogen ion concentration (pH) Biochemical oxygen demand (BOD) Suspended substances (SS) Mineral oil Animal and plant oils Ammonium-nitrogen, nitrite-nitrogen and nitrate-nitrogen content	- mg/L mg/L mg/L mg/L	Between 5 & 9 Less than 600 Less than 600 5 or less 30 or less Less than 380	8.7 140 65 Less than 0.5 7.2 21	✓
Headquarters (Bld. E)	Hydrogen ion concentration (pH) Biochemical oxygen demand (BOD) Suspended substances (SS) Mineral oil Animal and plant oils Ammonium-nitrogen, nitrite-nitrogen and nitrate-nitrogen content	- mg/L mg/L mg/L mg/L	Between 5 & 9 Less than 600 Less than 600 5 or less 30 or less Less than 380	8.0 0.8 2 Less than 0.5 Less than 0.5 Less than 1	✓
Headquarters (Anechoic Chamber)	Hydrogen ion concentration (pH) Biochemical oxygen demand (BOD) Suspended substances (SS) Mineral oil Animal and plant oils Ammonium-nitrogen, nitrite-nitrogen and nitrate-nitrogen content	- mg/L mg/L mg/L mg/L	Between 5 & 9 Less than 600 Less than 600 5 or less 30 or less Less than 380	7.7 10 8 Less than 0.5 Less than 0.5 Less than 1	~
ProDeS Center	Hydrogen ion concentration (pH) Biochemical oxygen demand (BOD) Suspended substances (SS) Mineral oil Animal and plant oils Ammonium-nitrogen, nitrite-nitrogen and nitrate-nitrogen content	- mg/L mg/L mg/L mg/L	Between 5 & 9 Less than 600 Less than 600 5 or less 30 or less Less than 380	8.4 220 340 Less than 0.5 6.6 25	~
PFU Techno Wise Takamatsu Plant (Bld. 2 & 3)	Hydrogen ion concentration (pH) Biochemical oxygen demand (BOD) Suspended substances (SS) Mineral oil Animal and plant oils Ammonium-nitrogen, nitrite-nitrogen and nitrate-nitrogen content	- mg/L mg/L mg/L mg/L	Between 5 & 9 Less than 600 Less than 600 5 or less 30 or less Less than 380	7.4 3 Less than 1 Less than 1 0.8	✓

■ Noise/Vibration Measurement

At our headquarters, we regularly measure the noise and vibration generated by our business activities (once every five years).

We performed measurements on June 10, 2020, and confirmed that all values did not exceed the legal regulations (next measurement planned for fiscal 2025).

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	Noise	Unit	Regulation value	Bld. E north side	Bld. A southwest side	Anechoic chamber north side	South side parking lot	Evaluation
	Daytime	dB	65 or less	34	47	46	-	
	Morning	dB	60 or less	34	47	46	-	
	Evening	dB	60 or less	34	47	46	-	
	Nighttime	dB	50 or less	34	47	46	-	
Headquarters	Daytime	dB	60 or less (*6)	-	-	-	40	\checkmark
	Morning	dB	55 or less (*6)	-	-	-	40	
	Evening	dB	55 or less (*6)	-	-	-	40	
	Nighttime	dB	45 or less (*6)	-	-	-	40	

Noise Measurement Results

*6: Because the parking lot is in an area within 50m of the borders of school grounds, the legal regulations are five decibels lower.

Vibration Measurement Results

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	Vibration Unit	Unit	Jnit Regulation value	Bld. E north side	Bld. A southwest side	Anechoic chamber north side	South side parking lot	Evaluation
	Daytime	dB	65 or less	27	30	31	-	
	Nighttime	dB	50 or less	27	30	31	-	
Headquarters	Daytime	dB	60 or less (*7)	-	-	-	29	~
	Nighttime	dB	45 or less (*7)	-	-	-	29	

*7: Because the parking lot is in an area within 50m of the borders of school grounds, the legal regulations are five decibels lower.