

Environment

Data on CO2

Total GHG Emissions by Scope

(1,000t-CO2)

	2022	2023
Scope 1	17.7	17.8
Scope 2	18.6	16.6

Data on Energy

Energy Consumption by Region in 2023

(1,000t-CO2)

	Scope1	Scope2	Total
Japan	6.2	12.1	18.3
Europe	5.1	0.4	5.5
North America	5.3	1.8	7.2
South America	0.0	0.1	0.1
Oceania	0.8	0.1	0.9
Asia (except Japan)	0.4	2.2	2.6
Total	17.8	16.6	34.5

Use of Renewable Energy by Region in 2023

	Electric power (MWh)	Geothermal power (TJ)
Japan	0.1	0
Europe	0.6	0
North America	0	0
South America	0	0
Oceania	0	0
Asia (except Japan)	0.1	0
Total	0.8	0

Atmospheric Emissions

SOx and NOx Emissions

(t)

	2019	2020	2021	2022	2023
SO _x	0	0	0	0	0
NO _x	0.19	0.15	0.10	0.21	0.20

※Only applicable to Nasu Head Office in Japan

Data on Water Resources

Total Wastewater Discharge

(1,000m³)

	2019	2020	2021	2022	2023
Japan	52	61	58	56	55
Outside Japan	5.5	4.8	4.6	5.1	4.8
Total	57	65	63	61	60

*Wastewater is counted only at the Nasu Head Office.

Wastewater Amount by Discharge Route in 2023

(1,000m³)

	Rivers	Sewerage System	Total
Japan	0	55	55
Outside Japan	4.8	0.0	4.8
Total	5	55	60

*Wastewater is counted only at the Nasu Head Office.

Water Consumption in 2023 by Type

(1,000m³)

	Public Water	Industrial Water	Ground water	Total
Japan	83	0	0	83
Outside Japan	19	0	0	19
Total	102	0	0	102

Use of Recycled Water and Recycling Rate in 2023

	2023	
	Recycled Water (1,000m ³)	Recycling Rate (%)
Japan	7.2	9%
Outside Japan	0	0%
Total	7.2	7%

*Recycled water is only used at the Nasu head office.

2023 Water Quality Data

(t)

	2023
SS	12
BOD	11

Data on Waste

Recovery Volume by Type of Waste in 2023

(t)

Type of Waste	Type of Recovery Treatment	Emissions
		Total
Industrial waste	Sludge	Roadbed 75
	Oils	Fuels, reuse of oils, etc. 31
	Acids	Cement, etc. 40
	Alkali	Cement, etc. 43
	Plastic	Raw materials for plastic products, solid 345
	Wood	Fuels, wood chips, etc. 674
	Metal	Metal materials, etc. 87
	Glass	Glass materials, roadbed, etc. 8
	Specially controlled industrial waste	Cement, roadbed, etc. 22
	Other	Metal materials, roadbed, etc. 35
Valuables	Plastic	Raw materials for plastic products, etc. 26
	Paper	Raw material for paper, etc. 512
	Metal	Metal materials, etc. 1,040
General waste	General Waste Generated by Business Activities	Roadbed, etc. 104
Total		3,043

Chemical Substances Related Data

Amount of Chemical Substances in 2023

(t)

	2023
Japan	253
Outside Japan	Under investigation
Total	253

VOC Emissions in 2023

(t)

	2023
Japan	3.0
Outside Japan	1.2
Total	4.2

2023 List of Chemical Substances Subjected to the PRTR Act

(Kg)

Statutory No.	Name of Substance	Emissions Volume		Transfer Volume		
		Atmosphere	Public Water	Sewerage System	Waste	Consumption
1	Zinc compounds(water-soluble)	0	0	0	57	133
87	Chromium and chromium(III) compounds	11	0	0	0	0
300	Toluene	251	0	0	0	0
304	Lead	47	0	0	14	33
308	Nickel	3	0	0	0	0
412	Manganese and its compounds	7	0	0	0	0