

Water Consumption

Unit: million liters

Year	2022		2023	
Location	All locations	Locations prone to water stress	All locations	Locations prone to water stress
Total water consumption	6.095	N/A	9.449	N/A
Change in water storage	N/A	N/A	N/A	N/A

Note: The water consumption in the above table is for vacuum furnace cooling.

6.6 Waste management

Kaori observes the ISO 14001 standard and has created a dedicated unit to track the sources and volumes of waste. Adhering to the principles of maximizing resource use and minimizing waste generation, the Company promotes "Waste Management Measures." All departments are committed to minimizing waste volumes from production activities, increasing the life cycles of raw materials used, and promoting the circulation and reuse of resources and waste for total waste reduction. Kaori engages qualified service providers to dispose of waste and uses appropriate forms to audit waste handlers, thereby ensuring the appropriateness of waste treatment and that the waste generated does not pose a significant impact on the nearby environment.

Requirements for suppliers

Reusable packaging containers and non-reusable containers must be recyclable and reusable materials. Waste generated during the supply process must also be recyclable or declared as reusable waste items.

Production requirements

In the plant's production processes, materials are controlled at the source to avoid using raw materials and equipment materials that current environmental technologies cannot manage. Additionally, raw materials/waste from the production process are reviewed for potential recycling and reuse. Reduce the waste of necessary resources and increase recycling.

Requirements for employees

Environmental safety and health education and training are held for employees on their first day of employment to teach them how to classify waste, improve their environmental safety and health concepts and literacy, and enable them to independently classify recyclable waste. Each area maintains at least five categories of waste sorting categories, contributing to the planet's environmental sustainability and social responsibility.

Recycling requirements for waste disposal

Review the suitability of waste disposal channels every year and select waste disposal contractors with more environmentally friendly treatment methods, especially the legal disposal of hazardous waste, to avoid causing environmental impact. There were no violations of waste treatment laws in 2023.

Waste Reduction Measures

Kaori reduces the volume of waste by recycling waste iron, carton boxes, and waste glass and reusing waste pallets. Waste pallets are handed over to qualified service providers for reuse, thereby minimizing environmental impact. Upholding the principle of responsibility, Kaori duly reports how waste generated from plant sites is handled and retains complete documents to ensure that waste is properly treated.

- Establishment of employee cafeterias and use of environment-friendly tableware
- Total recycling of paper containers
- Use of kitchen waste recycling bins
- No hazardous waste; domestic wastes are disposed of in accordance with the law

Total Waste

Unit: tonnes

Year. Disposal Waste composition	2022			2023		
	Waste Generated	Waste Diverted From Disposal	Waste Directed to Disposal	Waste generated	Waste Diverted From Disposal	Waste Directed to Disposal
General Waste	85.15	0.00	85.15	91.369	0	91.369
Scrap - Waste stainless steel	0.00	0.00	0.00	3.568	3.568	0
Scrap - Waste black steel	0.00	0.00	0.00	97.365	97.365	0
Scrap - Waste INCO601	0.00	0.00	0.00	1.996	1.996	0
Scrap - Waste INCO625	25.61	25.61	0.00	15.8478	15.8478	0
Scrap - Waste HS230	0.40	0.40	0.00	0.004	0.004	0
Scrap - Waste INCO800	23.74	23.74	0.00	66.943	66.943	0
Scrap - Waste mix	0.83	0.83	0.00	0.175	0.175	0
Scrap - Waste inco600	0.39	0.39	0.00	4.3463	4.3463	0
Scrap - Waste sus446	0.69	0.69	0.00	1.65	1.65	0
Scrap - Swarf from machining	0.94	0.94	0.00	2.016	2.016	0
Scrap - Waste 304 + copper	76.11	76.11	0.00	58.173	58.173	0
Scrap - Waste 316 + copper	241.92	241.92	0.00	210.462	210.462	0
Scrap - Waste aluminum	0.26	0.26	0.00	0.923	0.923	0
Scrap - Waste copper	4.57	4.57	0.00	14.472	14.472	0
Scrap - Pure 304	50.61	50.61	0.00	55.445	55.445	0
Scrap - Pure 316	66.50	66.50	0.00	70.324	70.324	0
Scrap - Waste 304 swarf	118.99	118.99	0.00	112.833	112.833	0
Scrap - Waste 316 swarf	30.31	30.31	0.00	24.564	24.564	0
Waste INCO800+SUS316	0	0	0	0.05	0.05	0
Waste INCO800+625 Scrap	0	0	0	1.321	1.321	0
Waste ceramic INCO800+625	0	0	0	0.225	0.225	0

Year. Disposal Waste composition	2022			2023		
	Waste Generated	Waste Diverted From Disposal	Waste Directed to Disposal	Waste generated	Waste Diverted From Disposal	Waste Directed to Disposal
Waste ceramics + INCO625	0	0	0	0.373	0.373	0
Waste heat exchangers	0	0	0	20.413	20.413	0
Scrap nickel foil	0	0	0	0.427	0.427	0
Waste ceramics	0	0	0	0.052	0.052	0
Blade waste	0	0	0	0.03	0.03	0
Waste cables	0	0	0	0.303	0.303	0
Waste paper	0	0	0	11.959	11.959	0
Waste wooden materials (R-0701)	70.48	70.48	0.00	84.24	84.24	0
Waste oil mixture (D-1799)	7.50	7.50	0.00	15.66	15.66	0
Night soil (D-0104)	4.01	0.00	4.01	0	0	0
Waste plastic (R-0201)	18.64	18.64	0.00	11.06	11.06	0
Total waste	827.64	738.48	89.16	1,122.589	1,031.22	91.369

Note: The waste materials listed in the table above can be sold externally.



Waste diverted from disposal

Unit: tonnes

Waste composition		Year		2022			2023		
		On-site	Off-site	Total volume	On-site	Off-site	Total volume		
Hazardous waste	Preparation for reuse	0.00	0.00	0.00	0	0	0		
	Recycling	0.00	0.00	0.00	0	0	0		
	Other recovery	0.00	0.00	0.00	0	0	0		
	Total volume	0.00	0.00	0.00	0	0	0		
Non-hazardous waste	Preparation for reuse	0.00	0.00	0.00	0	0	0		
	Recycling	0.00	719.84	719.84	0	1,031.22	1,031.22		
	Other recovery	0.00	0.00	0.00	0	0	0		
	Total volume	0.00	719.84	719.84	0	1,031.22	1,031.22		

Waste directed to disposal

Unit: tonnes

Waste composition		Year		2022			2023		
		On-site	Off-site	Total volume	On-site	Off-site	Total volume		
Hazardous waste	Incineration (including recycling of energy sources)	0.00	0.00	0.00	0.00	0.00	0.00		
	Incineration (excluding recycling of energy sources)	0.00	0.00	0.00	0.00	0.00	0.00		
	Landfill	0.00	0.00	0.00	0.00	0.00	0.00		
	Other methods of disposal	0.00	0.00	0.00	0.00	0.00	0.00		
	Total volume	0.00	0.00	0.00	0.00	0.00	0.00		
Non-hazardous waste	Incineration (including recycling of energy sources)	0.00	85.15	85.15	0.00	91.369	91.369		
	Incineration (excluding recycling of energy sources)	0.00	0.00	0.00	0.00	0.00	0.00		
	Landfill	0.00	0.00	0.00	0.00	0.00	0.00		
	Other methods of disposal	0.00	0.00	0.00	0.00	0.00	0.00		
	Total volume	0.00	85.15	85.15	0.00	91.369	91.369		