## Policy (our fundamental view)

The NOF Group makes efforts for the use and management of water resources as well as the appropriate treatment and management of plant wastewater in accordance with the Management Policy Regarding Responsible Care.

To this end, each plant and subsidiary is working on the following items.

- (1) Operation and management of specified facilities and wastewater management based on the Water Pollution Prevention Law
- (2) Thorough employee education on environment-related laws and regulations
- (3) Assessment of environmental impact when new facilities are established
- (4) Review of management status through internal audits
- (5) Disclosure of information through regular community dialogue

In addition, at our business bases, we are working to reduce water consumption and improve efficiency in production. We achieve sustainable water resource management by promoting the effective use of water resources and reducing the burden on the environment.

Through these efforts, the NOF Group will contribute to the realization of a sustainable society by promoting resource recycling and actively working to reduce environmental impact.

#### Use of water resources

NOF has been carrying out the efficient use of water resources by estimating the amount of the water consumption. The volume of water used in fiscal 2023 amounted to 8.358 million m<sup>3</sup>, of which

Changes in water consumption (Thousand m³/year)

Category		2020	2021	2022	2023
NOF	Volume of water intake	5,874	5,889	6,007	5,988
	City water	801	794	751	759
	Industrial water	4,300	4,322	4,351	4,359
	Groundwater	773	774	905	869
	Volume of wastewater	4,846	4,939	5,022	5,283
	Volume of water used	1,028	950	985	705
	Volume of water intake	6,434	6,447	6,535	6,484
	City water	831	829	782	793
Domestic	Industrial water	4,300	4,322	4,351	4,359
Group	Groundwater	1,304	1,297	1,402	1,332
	Volume of wastewater	6,161	6,297	6,091	5,763
	Volume of water used	273	150	444	721
	Volume of water intake	8,318	8,419	8,498	8,358
	City water	1,938	2,100	2,184	2,103
NOF	Industrial water	5,077	5,022	4,912	4,923
Group	Groundwater	1,304	1,297	1,402	1,332
	Volume of wastewater	6,551	6,642	6,421	6,090
	Volume of water used	1,767	1,777	2,077	2,268
Volume of water used / sales (ton / million yen)		10.2	9.2	9.5	10.2

1.332 million m<sup>3</sup> was groundwater and 2.103 million m<sup>3</sup> was city water.

Our water usage per million yen of sales has increased by approximately 7% over the previous fiscal year, making us more dependent on water use. For the appropriate management and protection of water resources, we conduct employee education and awareness-raising activities, recognize the importance of sustainable water use, and continue to work to reduce water consumption.

# Volume of wastewater by discharge destination

The NOF Group discharges approximately 61%, or 3,692,000 m<sup>3</sup>, of the wastewater generated at each production site to seawater after appropriate treatment. In addition, 31% is discharged to surface water, including rivers, and the remaining 9% to other organizations.

#### Changes in volume of wastewater by discharge NOF Group (Thousand m<sup>3</sup>/year)

Category	2020	2021	2022	2023
Surface water	2,564	2,595	2,403	1,863
Groundwater	0	0	0	0
Seawater	3,377	3,479	3,483	3,692
Discharge to other organizations	610	568	535	535
Total	6,551	6,642	6,421	6,090



# Water and wastewater

### Water stress (drought) assessment

Water stress (drought)\*1 was assessed at domestic and overseas production sites using Aqueduct tools from the World Resources Institute (WRI). In 2024, we found that our European and Southeast Asian sites are in areas that will be under water stress in 2030. It is assumed that the risk of water stress will be even higher at our South American sites by 2050. We will continue our efforts to reduce water consumption.

## Drought risk assessment results by Aqueduct

(Number of production sites)

Drought risks	Water stress	2024	2030	2050
Large	Over 40%	2	2	3
Medium	20-40%	14	15	14
Small	Under 20%	7	6	6

### Prevention of water pollution

Plant wastewater resulting from production activities is properly treated through treatment facilities and discharged outside the plant. We monitor biochemical oxygen demand (BOD), chemical oxygen demand (COD), and suspended solids\*2

# Changes in wastewater monitoring items

(tons/year)

Category		2020	2021	2022	2023
NOF	BOD	34	50	37	33
	COD	60	67	44	52
	Suspended solids	33	31	22	36
	BOD	38	52	39	36
Domestic Group	COD	60	68	44	52
	Suspended solids	40	36	25	42
	BOD	104	93	67	74
NOF Group	COD	219	154	148	171
•	Suspended solids	56	46	44	58
Violations of laws and regulations (no.)		0	0	0	0

among others contained in wastewater. Along with ongoing equipment upgrades, we are improving our water quality management system and operating in compliance with prescribed limits. In addition, there have been no cases of violations of laws and regulations related to water quality.

<sup>\*1</sup> Water stress is measured as the ratio of total water withdrawals to available, renewable surface and groundwater supplies. Water withdrawals include consumptive and non-consumptive uses for household, industrial, irrigation, and livestock purposes. Available, renewable water supplies include the impact that upstream consumptive water users and large dams have on downstream water availability.

<sup>\*2</sup> Particulate substances of 2 mm or less in diameter floating or suspended in water; one of the indicators of water quality.



# Risks and opportunities for water and wastewater

Category	Major risks and opportunities	Overview	Countermeasures
	Tighter domestic and international regulations	<ul> <li>The introduction of new regulations makes it necessary to enhance facilities and strengthen management systems to comply with the new regulations, which increases the associated management costs</li> <li>New wastewater regulations make it impossible to manufacture products as they have been through now, resulting in reduced sales due to lost opportunities</li> </ul>	<ul> <li>Increased capacity of waste- water processing facilities</li> <li>Development and provision of products with low environmen- tal impact</li> </ul>
Transition risks	Market	<ul> <li>At production sites in regions with high water risk, procurement costs rise due to higher water prices caused by water shortages</li> <li>At production sites in regions with high water risk, sales decrease due to lost opportunities when operations are interrupted at production plants due to frequent water outages caused by water shortages</li> <li>Aging water infrastructure causes unstable water supply and frequent water outages, interrupting operations at production plants and resulting in lost sales due to lost opportunities</li> </ul>	<ul> <li>Study of efficient use of water</li> </ul>
	Deterioration of evaluation/reputation	<ul> <li>Delays in complying with regulations and in developing eco-friendly products damage the company's evaluation from investors and its reputation among customers and local residents</li> </ul>	<ul> <li>Enhancement of information disclosure on content of initiatives</li> </ul>
Physical risks	Natural disasters	<ul> <li>Due to prolonged heavy rainfall causing wastewater processing facilities to exceed their capacity, and damage to facilities caused by typhoons and other natural disasters, it becomes difficult to manage discharges, which in turn causes production to stop, resulting in lost opportunities and lost sales</li> <li>Water cutoffs and droughts due to natural disasters associated with climate change disrupt operations at production plants, resulting in reduced sales due to lost opportunities</li> <li>Increased flooding due to climate change damages production plants at risk of flooding, resulting in asset losses and reduced sales</li> <li>Leaks of pollutants</li> </ul>	<ul><li>Increased capacity of wastewater processing facilities</li><li>Study of efficient use of water</li></ul>
	Chronic risks	<ul> <li>Excessive groundwater intake causes land subsidence in areas surrounding plants using groundwater, resulting in large compensation for damages and decreased sales due to prolonged shutdowns (Aichi Works)</li> </ul>	Study of efficient use of water
Oppor- tunities -	Growing needs for products that contribute to water pollution solutions	<ul> <li>[Mitigation of water pollution]</li> <li>Anti-sticking agents for asphalt mixtures, eco-friendly stern tube bearing oil, biodegradable lubricants, antifreezing agents, lead-free products</li> </ul>	<ul> <li>Development and provision of eco-friendly products</li> </ul>
	Improvement of evaluation and reputation	<ul> <li>Proactive emission control measures and the development and provision of products that make positive contributions improve the company's evaluation from investors and its reputation among customers and local residents</li> </ul>	<ul> <li>Enhancement of information disclosure on content of initiatives</li> </ul>