

Materiality 4

# Promoting Resource Circulation



## 3R for Products and Packaging

### Basic Approach

Creating a circular economy, an economic model that maximizes the use of existing resources and helps create sustainable societies, is vital to solving intensifying environmental issues such as climate change and resource depletion. As the world shifts into a circular economy, the Nikon Group recognizes that companies are members of society expected to consider product life cycles that prevent waste and reduce environmental impact to the greatest extent possible.

In the Nikon Environmental Activity Policy, we set forth the efficient use of resources, eco-friendly products, and environmental friendliness throughout the product life cycle, engaging in the 3Rs (Reduce, Reuse, Recycle) for products and packaging in product development and design.



Nikon Environmental Activity Policy

[https://www.nikon.com/company/sustainability/environment/environment\\_policy.pdf](https://www.nikon.com/company/sustainability/environment/environment_policy.pdf)

### Strategy

#### Risk

Many countries are tightening regulations regarding the resource circulation of products and packaging

(e.g., mandatory reuse of waste and taxation), and mandating the disclosure of information regarding plastic use. As laws and regulations are tightened, we face potential risks in procurement and costs as recycled materials are likely to become scarce in the market. As the circular economy progresses, we also face potential risks of lower sales, a loss of public trust, and pullbacks in investments due to slower responses to changing market and consumer preference in product choice.

#### Opportunity

We recognize opportunities to reduce business costs through reduced and more efficient use of plastics and other resources, to expand our business by offering technologies and products that contribute to the transition to a circular economy, and to earn the trust of our stakeholders.

#### Strategy

Given our diverse range of products, the Nikon Group must base our strategies on the characteristics of each business. We organize the necessary measures to reduce, reuse, and recycle, and set appropriate targets for each business.

### The 3Rs Initiatives of the Nikon Group

- Reduce
  - ① Select materials with low environmental impact, make products smaller, and reduce the number of parts
  - ② Extend product life
  - ③ Reduce plastic packaging materials
  - ④ Promote the switchover of containers and packaging from plastic to paper and plant-derived plastic materials
- Reuse
  - ① Pursue the reuse of products, parts, materials, and packaging
  - ② Expand sales of used products
  - ③ Decide whether or not to continue the sale of used equipment
- Recycle
  - ① Decide on the new adoption of recycled materials
  - ② Pursue the adoption of recycled materials (surveys, etc.)
  - ③ Switch from plastic packaging and containers to recycled materials

Nikon Long-Term Environmental Vision and Medium-Term Environmental Goals → p.067

### Governance

The Nikon Group considers the environmental friendliness of our products to be an element of product quality. We established meetings under the Quality Committee to comply with product

environmental laws and regulations, pursue the development of eco-friendly products, and deliberate on environmental friendliness in containers and packaging. The product environment secretariat, the secretariat of these meetings, gathers information on relevant laws, regulations, and industry trends, provides information to the relevant business units, and instructs them to take action. The secretariat also collects and confirms results from each business unit and reports them to the Product Subcommittee and the Environmental Subcommittee. The Environmental Subcommittee checks the status of the target achievement and deliberates on issues and countermeasures. The Environmental Subcommittee then reports these results to the Sustainability Committee twice a year and important matters to the Board of Directors once a year.

Environmental Governance → p.060

## Risk Management

At meetings related to product environment, we gather information on the latest trends in laws, regulations, and industries. We also consider and decide on ways to comply with such trends. We also conduct assessments for products and packaging at said meetings, and compile the results. These results are then reported to the Quality Committee and the Environmental Subcommittee.

Environment-Related Risk Management System → p.064

## Indicators and Targets

### Indicators and Targets (Target Fiscal Year)

Percentage of use of recycled materials for products : 5% or more (FY2030)

#### ► FY2023

##### Plan

\*Targets set for each business unit and division

##### Results

Use recycled materials for certain imaging products

#### ► FY2024

##### Plan

\*Targets set for each business unit and division

Nikon Long-Term Environmental Vision and Medium-Term Environmental Goals → p.067  
 Environmental Action Plan Achievements for the Fiscal Year 2023 [Summary] → p.068  
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## Major Initiatives

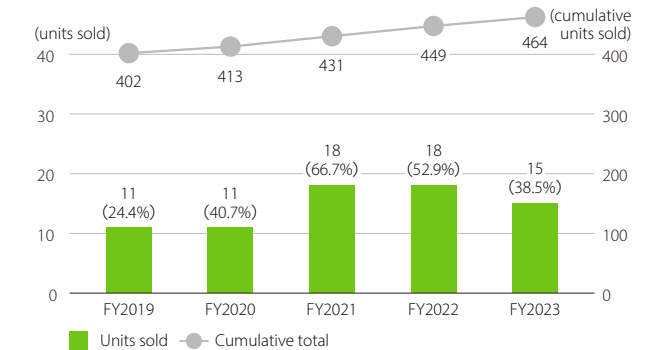
### Sales of Refurbished Semiconductor Lithography Systems and Reuse of Projection Lenses

The Nikon Group has commercialized a service for collecting and reconditioning used Nikon semiconductor lithography systems from customers, where it replaces and reconfigures parts and installs the refurbished systems for new customers in and outside Japan. This business activity is an example

of the Nikon Group's practice of reusing its own products within the Group. As of fiscal year 2023, the Nikon Group had sold a cumulative total of 464 refurbished products.

The Nikon Group is also working on extending the life of lithography systems by using Nikon's latest technology to reuse and replace projection lenses which have deteriorated from long-term use and cannot maintain basic exposure performance.

### ● Sales Trends of Refurbished Semiconductor Lithography Systems (for ICs)



\* Figures in parentheses indicate share of total units sold

## Extend Product Life

To extend product lives for our customers, Nikon offers our Plaza Inspection Pack and Periodic Maintenance inspection and cleaning services.

The Plaza Inspection Pack is a daily care service for cameras and accessories. Our Nikon Plaza service centers in Tokyo and Osaka inspect and clean cameras, lenses, and camera accessories through this service.

The Periodic Maintenance service is to inspect each part of the camera equipment and lenses, check accuracy, clean details, and perform other services in an environment fully equipped with inspection equipment and devices.

We also refresh and upgrade projection lenses for older FPD lithography systems to extend product lives for customers. In fiscal year 2023, we launched a service to refresh and return glass components for FPD lithography systems in China.

## Battery Recycling

The Nikon Group works through JBRC\* to recycle used digital cameras and other rechargeable batteries collected in the Japanese market.

\*Japan Portable Rechargeable Battery Recycling Center (JBRC): An organization that recycles small rechargeable batteries in line with the Act on the Promotion of Effective Utilization of Resources.



Battery recycling marks

## Recycling and Reuse of Nikon Products

We also work to collect and recycle used electrical and electronic equipment around the world in compliance with the laws and regulations of each country, based

on the latest information.

Under the WEEE Directive\*1, European countries in particular have been establishing national laws in relation to the collection and recycling of used electrical and electronic equipment.

In response to these laws, the Nikon Group has been working to fulfill its responsibility for the collection and recycling of Nikon digital cameras and other products. The Nikon Group has registered with local collection organizations in more than 30 countries, establishing collection and recycling networks in each of these. We are also implementing product assessments at their design stages to promote easy-to-disassemble designs, reductions in the types of raw materials used, and extensive utilization of recycled resources, to comply with the provisions of the Act on Promotion of Recycling of Small Waste Electrical and Electronic Equipment\*2 in Japan.

As to reuse, part of our services includes accepting digital cameras returned from customers, repairing them, and then selling them as refurbished cameras in and outside Japan.

\*1 WEEE (Waste Electrical and Electronic Equipment) Directive: Legislation enacted in the EU in 2003 (and revised in 2012) requiring EU Member States to collect and recycle waste electrical and electronic equipment.

\*2 Act on Promotion of Recycling of Small Waste Electrical and Electronic Equipment: Enacted on April 1, 2013. This legislation stipulates the responsibilities of various entities, including national and local public bodies, business operators and manufacturers, with respect to the promotion of recycling of small waste electrical and electronic equipment such as digital cameras and game devices.



EU recycling symbol

## Use of Recycled Plastic Materials in Products

The Nikon Group sets the use of recycled materials as an assessment item in our Product Assessments and encourages the active use of recycled materials from the development stage. Currently, we use recycled plastic materials in digital camera body caps and certain binoculars.



Digital camera body caps

## Recycling of Packaging Materials

The Nikon Group promotes the recycling of packaging materials for Nikon products including digital cameras in Japan by outsourcing the task to the Japan Containers and Packaging Recycling Association.

In Europe, under the EU Packaging and Packaging Waste Directive, each country has established a packaging waste recovery and recycling system in accordance with its national laws. In the EU, the Nikon Group pays recovery and recycling fees to recycling organizations in each country, cooperating in promoting the collection and recycling of containers and packaging materials in various countries. In addition, we facilitate sorted collection by providing

recycling marks and material indications on product containers and packaging materials as specified in each country.



Examples of recycling marks in each country

### Saving Resources by Downsizing Packaging Boxes

The Nikon Group is working to reduce the amount of materials it uses, such as paper and plastic, by reducing the size of individual packaging boxes.

For the AX/AX R confocal microscope system, in addition to reducing the size of its packaging box in keeping with the miniaturization of the product itself, the Group was able to reduce the overall volume of the packaging box by 20% and the weight of packaging materials by 35% by changing the bottom pallet of the packaging box from steel to paper. The use of paper pallets has also greatly reduced environmental impact on disposal.

### Reducing Plastics in Packaging

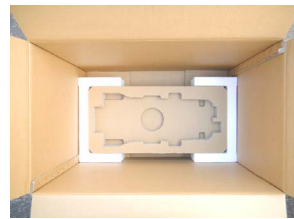
In recent years, marine pollution from plastic waste has become a global problem. In response, the Nikon Group implements a number of measures that include reducing the amount of disposable plastics used in product packaging and at production sites, using paper-based materials instead of plastics, etc.

For the packaging of the ECLIPSE Ti2-E inverted research microscope, we now use paper instead of

foamed plastic in certain parts of this packaging.

We also reduced the amount of plastic used in the cushioning materials of the medium telephoto single focal length lens *NIKKOR Z 135mm f/1.8 S Plena* by switching from foamed plastic to corrugated cardboard.

In our production base initiatives, the Nikon Group uses recycled PP (polypropylene) bands made from recycled materials as transportation packaging between production sites in Japan.



Previous packaging for ECLIPSE Ti2-E inverted research microscope



Current packaging for ECLIPSE Ti2-E inverted research microscope

# Management and Reduction of Waste

## Basic Approach

We must shift to a circular economy as a means to solve global problems stemming from human activities, including climate change, loss of biodiversity, and environmental pollution. A circular economy preserves and maintains the value of products, materials, and resources for as long as possible, minimizes waste generation, and reduces environmental burdens associated with resource use. We recognize that companies are expected to reduce waste, reuse and recycle resources, and reduce their environmental impact to the greatest extent possible.

In the Nikon Environmental Activity Policy, the Nikon Group sets forth the efficient use of resources and environmental friendliness throughout the product life, and engages in measures to reduce waste from product manufacturing processes and business sites.



Nikon Environmental Activity Policy

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## Strategy

### Risk

Waste-related laws and regulations have been tightened further in recent years due to the shortage of waste disposal sites, illegal dumping, and the resulting pollution. Amid these circumstances, we recognize risks including higher costs in waste management, costs to respond in the unlikely event we violate laws or regulations, and a

loss of public trust and investment withdrawals due to negative attention from the public announcement of our company name.

### Opportunity

We recognize opportunities to reduce business costs through waste reduction and the efficient use of resources, as well as opportunities to maintain public trust through proper management and disposal of waste.

### Strategy

We adopted the concept of zero emissions, striving to not only reduce emissions but to reduce emissions to zero for society as a whole by using waste as a resource in other industries. Here, we introduced our own level-specific targets into zero emission initiatives to reduce final landfill waste volumes and encourage resource circulation.

We established the Waste Disposal Guidelines to ensure the proper outsourcing of waste disposal (including the selection and contracting of appropriate outsourced waste disposal contractors) in accordance with the laws of each country. The Waste Disposal Guidelines require all production facilities to confirm proper disposal of waste through the monthly management of discharge dates, disposal completion dates (intermediate disposal), discharge type, discharge weight, and amount of landfill waste (including the amount of final disposal not recycled). We evaluate waste management at each site through EMS assessments to identify issues and make improvements. Furthermore, departments in charge of waste disposal train employees at the relevant sites to

improve overall waste management.

Nikon Long-Term Environmental Vision and Medium-Term Environmental Goals → [p.067](#)

## Governance

Each site and Group company sets their own reduction targets and manages waste data (discharge dates, discharge type, discharge weight, amount of landfill waste, etc.) on a monthly basis. The Local Environmental Subcommittee secretariat, which operates under the Environmental Subcommittee, checks the results and the status of achievement of targets for each site and Group company. The secretariat then reports these results to the Environmental Subcommittee twice a year. The Environmental Subcommittee checks the status of achievement of group-wide targets and deliberates on issues and countermeasures. The Environmental Subcommittee then reports these results to the Sustainability Committee twice a year and important matters to the Board of Directors once a year.

Environmental Governance → [p.060](#)

## Risk Management

Each site and Group company identifies issues and risks, determines initiatives to address identified items, incorporates items into targets, and conducts periodic management reviews. The contents of the

management reviews are reported to the Environmental Subcommittee once a year.

Environment-Related Risk Management System → p.064

## Indicators and Targets

### Indicators and Targets (Target Fiscal Year)

Rate of reduction in total discharged waste (compared to FY2018) : 10% or more (FY2030)

#### ► FY2023

##### Plan

3% or more

##### Results

20%

#### ► FY2024

##### Plan

4% or more

Nikon Long-Term Environmental Vision and Medium-Term

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## Major Initiatives

### Towards Zero Emissions

The Nikon Group has introduced level-specific targets into zero emissions\* initiatives.

Nikon and Group manufacturing companies in Japan maintain level 5 status. In fiscal year 2023, Nikon X-Tek Systems Ltd. (UK) and Hikari Glass (Changzhou) Optics Co., Ltd. (China) achieved level 5 status. In addition, Optos Plc (UK) and Nanjing Nikon Jiangnan Optical Instrument Co., Ltd. (China) achieved level 1 status, while other Group manufacturing companies are making further efforts to achieving Level 1 by fiscal year 2030.

\*Zero emissions: First advocated by the United Nations University in 1994. It embodies an approach that seeks to reduce waste from the whole of society to zero by recycling waste from one industry for use as a resource in other industries.

### Zero Emission Level-Specific Targets

- Level 5: Final landfill disposal rate of less than 0.5%
- Level 1: Final landfill disposal rate of less than 1%
- Level 2: Final landfill disposal rate of less than 5%
- Level 3: Final landfill disposal rate of less than 10%
- Level 4: Final landfill disposal rate of less than 20%

\*1 Final landfill disposal rate = Final landfill amount / (waste + valuable resources)

\*2 The final landfill amount is the amount of waste disposed of by landfill at the final disposal site.

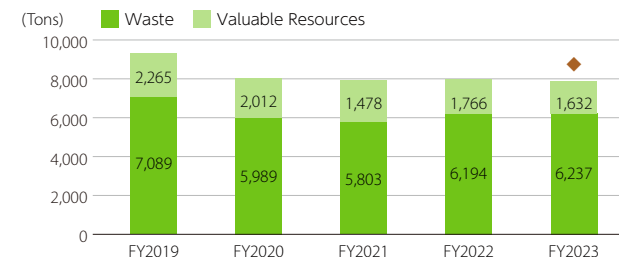
## Waste Reduction Performance

The amount of waste (excluding valuable resources) generated by the Nikon Group in Japan and by the Group manufacturing companies outside Japan during fiscal year 2023 was 6,237 tons. This figure represented a reduction of 20% (1,533 tons), achieving the Group target of reducing the total waste generated from operations by at least 3% compared to fiscal year 2018 (7,538 tons or less in total waste). The total amount of final landfill

waste generated was 227 tons<sup>◆</sup>, with 6,011 tons of waste recycled (not including valuable resources). In fiscal year 2024, we will continue our efforts to reduce total waste generated.

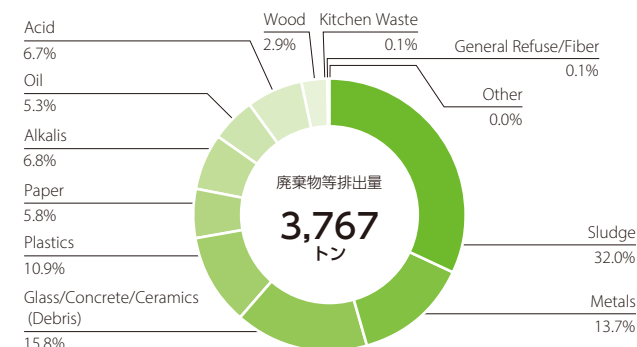
◆: Values in Data Index assured by a third party

### ● Waste Generated by the Nikon Group in Japan and Group Manufacturing Companies Outside Japan (Waste + Valuable Resources)



◆: Values in Data Index assured by a third party

### ● Breakdown by Category of Waste (Waste + Valuable Resources) Generated by the Nikon Group in Japan (Fiscal Year 2023)



## Initiatives in the Manufacturing Process

In August 2023, Miyagi Nikon Precision Co., Ltd began separating soft vinyl (bubble cushioning material and plastic bags) for sale as valuable resources. This vinyl had previously been disposed of as industrial waste. The company collected the used vinyl through the effective use of available space in company transport vehicles returning from transporting parts. This initiative enabled the company to convert approximately 37% of used soft vinyl into valuable resources.

Abrasive agents used to polish optical glass are discarded as abrasive sludge after use. Abrasive sludge accounts for around 19% of waste discharged by the Nikon Group in Japan. The Nikon Group established a method to reuse these abrasives, achieving a 45% reduction in abrasive sludge waste at the Nikon Shonan Branch, which produces photomask substrates. We are working to further reduce this abrasive sludge.

At Sendai Nikon Corporation, we are taking actions to recycle resources. For example, plastic waste is sorted by material and color, gate parts from molded products are crushed, and heating is used to reduce the volume of extruded polystyrene foam. With regard to metal waste, oil is separated from metal shavings by centrifugal separation, thereby enhancing the value of recycled valuable resources.

## Paper Resource Initiatives

The Nikon Group is working to reduce document printing by digitizing meeting materials and encouraging the use of computers and tablets to confirm engineering

drawings and forms. We are also working to reduce paper usage by changing the settings on multifunction printers and installing software to reduce accidental or unnecessary copying.

# Protection of Water Resources

## Basic Approach

Large quantities of water are used in the production processes for optical lenses, part of Nikon's main product category, and for the quartz glass used in these lenses. For example, during the optical lens polishing process, water has to be added frequently in order to keep the polishing agent at the right consistency. Similarly, in the quartz glass production process, our waste gas purification devices require water to remove acid components from waste gases. For these reasons, water is not only an indispensable resource for Nikon Group business, but it also affects the global environment through wastewater and other means. Working to conserve water resources is therefore essential for business continuity. The Nikon Group formulated the Nikon Environmental Long-Term Vision looking ahead to fiscal year 2050. Of the three pillars, *realizing a resource circulating society* depicts our vision for water and resources, while *realizing a healthy and environmentally safe society* corresponds to our vision for water safety. To achieve these goals, the Nikon Environmental Activity Policy stipulates the effective use of water and other resources, compliance with laws and regulations, establishment and compliance of voluntary standards exceeding legal requirements, and pollution prevention. In addition, we aim to implement steady initiatives and improve standards through employee training on water-related initiatives and related laws and regulations as part of employee environmental education.



Nikon Environmental Activity Policy

[https://www.nikon.com/company/sustainability/environment/environment\\_policy.pdf](https://www.nikon.com/company/sustainability/environment/environment_policy.pdf)

## Strategy

### Risk

The Company recognizes water-related risks including difficulties in securing sufficient water resources and related operational difficulties due to climate change, extreme weather events, or other disasters. These water risks apply to not only our direct operations but also to our entire supply chain, including procurement partners. Flooding and inundation caused by typhoons and long rains may inflict damage to work sites of the Company or our suppliers, and disrupt logistics, leading to potential disruptions in operations. The further progression of climate change may increase the probability of these risks.

If for some reason we are unable to treat wastewater properly and comply with relevant laws and regulations, we recognize the risk of incurring costs to respond, a loss of public trust, and investment withdrawals due to negative attention from the public announcement of our company name.

### Opportunity

We recognize opportunities to reduce operating costs through reuse, recycling, and other efficient uses of water resources.

### Strategy

To conserve water resources, the Nikon Group monitors the amount of water withdrawal, discharge, and reuse, implementing proactive initiatives for effective water use.

Beginning in fiscal year 2021, the Group also introduced a new freshwater consumption indicator\*, as we believe it is important that water used should be returned at an equal or better quality than when it was withdrawn. The Nikon Group believes that reducing freshwater consumption will lead to reduced water withdrawal load in each region.

For fiscal year 2023, the Nikon Group reduced freshwater consumption by 3.4% to 1,813,000 m<sup>3</sup>, achieving our Environmental Action Plan goals for the fiscal year to reduce water withdrawal by at least 2% compared with fiscal year 2018.

\* Freshwater consumption: Sum of withdrawal volumes A, B, and C, minus returned water volume D (A+B+C-D).

A: Water withdrawal from municipal water supply facilities (tap water, industrial water, etc.)

B: Water withdrawal from surface water (lakes, rivers, etc.)

C: Water withdrawal from groundwater

D: Return water of equal or better quality than the withdrawal source (applicable to B and C only)

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## Governance

Each site and Group company sets their own reduction targets and manages water data (water withdrawal, water discharge, freshwater consumption, etc.) on a monthly basis. The Local Environmental Subcommittee secretariat, which operates under the Environmental Subcommittee, checks the results and the status of achievement of targets for each party. The secretariat then reports these results to the Environmental Subcommittee twice a year. The Environmental Subcommittee checks the status of



achievement of targets and deliberates on issues and countermeasures. The Environmental Subcommittee then reports these results to the Sustainability Committee twice a year and important matters to the Board of Directors once a year.

Each site and Group company sets their own standards for wastewater quality, which are stricter than legal requirements, and monitors said standards on a regular basis. In the unlikely event that a site or Group company exceeds the standard values, the party in question reports the incident immediately to the relevant parties in accordance with the environmental accident reporting procedures established by the Nikon Group. The party in question then takes action to minimize environmental impact.

Environmental Governance → p.060

## Risk Management

Since many water risks are specific to each region, each site and Group company identifies risks, determines initiatives to address identified risks, incorporates risks into targets, and conducts periodic management reviews. The Local Environmental Subcommittee secretariat, which operates under the Environmental Subcommittee, compiles management review content and reports their findings to the Environmental Subcommittee once a year.

The Local Environmental Subcommittee secretariat also leads the assessment of the potential future impact on corporate activities of water-related issues, including

water resource availability, water-related disasters, and water pollution. The secretariat works with outside specialists once every three years to conduct such assessments.

In 2019, we conducted a water risk assessment based on Aqueduct\*1 for 16 domestic and international business facilities having high water withdrawal levels. As a result, we confirmed that there are no significantly high water stress\*2 areas in the regions where the Nikon Group conducts business activities.

In fiscal year 2023, we began preparations to assess the water risks of our suppliers in fiscal year 2024 in light of recent requests for the Group to grasp and identify water risks in our supply chain.

\*1 Aqueduct: A world map and information tool showing global water risks, provided free of charge by the World Resources Institute.

\*2 Water stress: A condition in which demand for water exceeds supply.

Environment-Related Risk Management System → p.064

## Indicators and Targets

### Indicators and Targets (Target Fiscal Year)

Rate of freshwater consumption reduction (compared to FY2018): 5% (FY2030)

#### ► FY2023

**Plan**

2% or more

**Results**

3.4%

#### ► FY2024

**Plan**

2%

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## Major Initiatives

### Appropriate Wastewater Treatment

The Nikon Group uses large amounts of water in its manufacturing processes. When discharging water used, the Group applies appropriate wastewater treatment to minimize the environmental impact on waterways in each region.

Specifically, we established voluntary standards even stricter than discharge standards found in each region, and we treat wastewater in accordance with wastewater quality levels alongside regular monitoring of the wastewater discharge situation.

### Water Withdrawal and Discharge

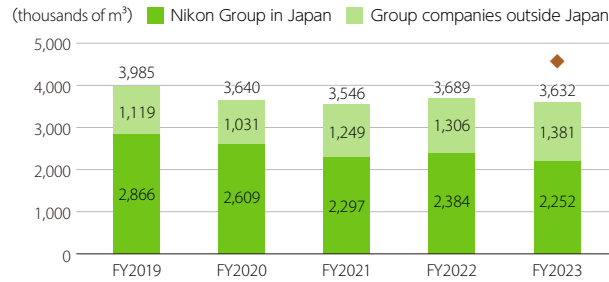
Nikon Group water withdrawal for fiscal year 2023 was 3,632,000 m<sup>3</sup> (Nikon Group in Japan accounting for 2,251,000 m<sup>3</sup>, and Group manufacturing companies outside Japan accounting for 1,381,000 m<sup>3</sup>). Wastewater discharge volume amounted to 3,220,000 m<sup>3</sup> (Nikon Group in Japan accounting for 2,116,000 m<sup>3</sup>, and Group manufacturing companies outside Japan accounting for 1,104,000 m<sup>3</sup>). We reduced freshwater consumption by

3.4% to 1,813,000 m<sup>3</sup>, achieving our target of reducing freshwater consumption by at least 2% compared to fiscal year 2018.

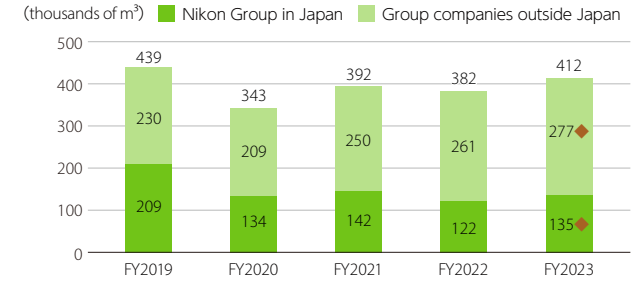
In addition, at the business facilities and the Group manufacturing companies that make use of considerable amounts of water, we pay special attention to ensuring that wastewater generated in manufacturing processes is properly treated, and endeavor to reuse as much water as possible. The fiscal year 2023 water reuse rate of the Nikon Group amounted to 6.9%.

The Nikon Group will continue efforts to reduce freshwater consumption further and improve recycling rates.

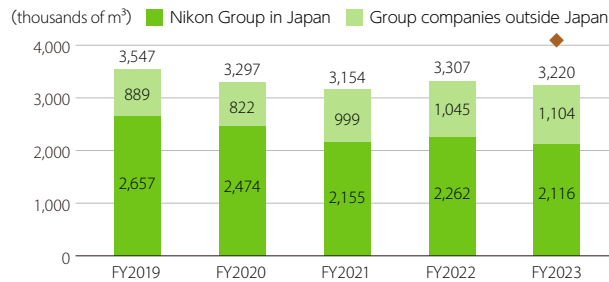
### Changes in Water Withdrawal



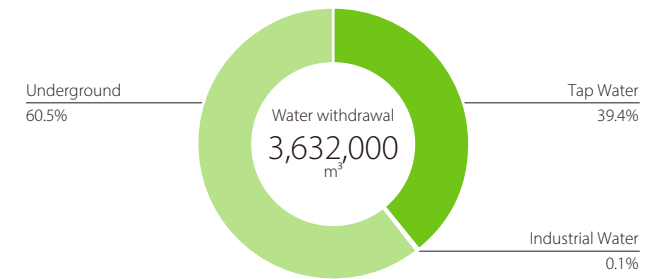
### Changes in Water Consumption



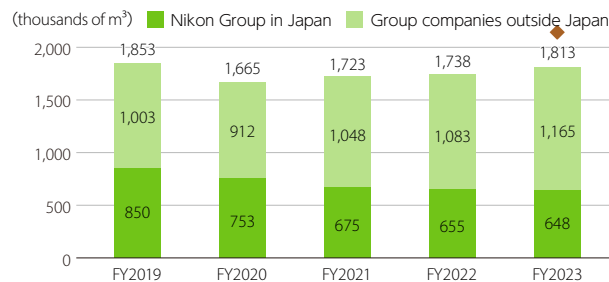
### Changes in Water Discharge



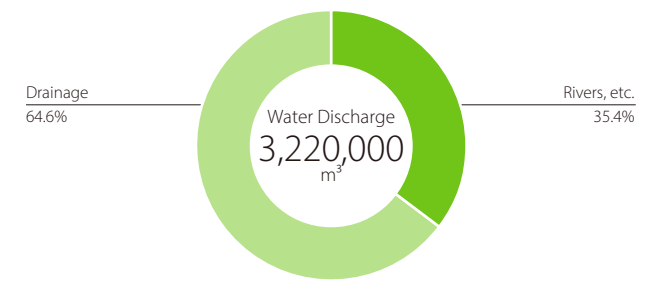
### Breakdown of Water Withdrawal (Fiscal Year 2023)



### Changes in Freshwater Consumption



### Breakdown of Water Discharge (Fiscal Year 2023)



◆: Values in Data Index assured by a third party

## Water Reuse Measures

### Case Example of Wastewater Reuse (Nikon Shonan Branch)

When manufacturing photomask substrates, the Nikon Shonan Branch uses a large amount of water resources during the polishing and cleaning processes. Accordingly, during fiscal year 2018, the Nikon Shonan Branch implemented a mechanism to reuse the wastewater from the cleaning process as supply water for pure water production equipment. As a result, over the course of fiscal year 2023, the Nikon Shonan Branch reused approximately 10,000 m<sup>3</sup> of water discharge for the year, reducing water withdrawal 7.7% compared with the period prior to adoption.

### Effective Use of Concentrated Water (Nikon Kumagaya Plant)

Nikon Kumagaya Plant manufactures semiconductor lithography systems, a process requiring a large amount of ultrapure water. The process of producing semiconductor lithography systems requires large amounts of ultrapure water. To generate ultrapure water, tap water is first fed into an ultrapure water apparatus and separated into pure water and concentrated water using RO membranes. The pure water is treated further to produce ultrapure water. However, the concentrated water had previously been discharged as wastewater. In fiscal year 2018, Nikon adopted a process to reuse this concentrated water effectively to supplement water used in cooling towers. In addition, we have been increasing the number of cooling towers reusing this concentrated water since October 2020. As a result, the Nikon

Kumagaya Plant reused approximately 39,000 m<sup>3</sup> of concentrated water as supplementary water for cooling towers in fiscal year 2023. This reused water accounted for approximately 13% of the total water withdrawal at the Nikon Kumagaya Plant.

### Reuse of Domestic Wastewater and Treated Water (Nikon Lao Co., Ltd.)

Nikon Lao Co., Ltd. (Laos) is located in a district with only basic water supply infrastructure, and has been actively implementing measures to improve water resource efficiency. The company purifies domestic wastewater for reuse in flushing toilets and in company garden sprinkler system. They also reuse treated water as a coolant.



Wastewater treatment system at Nikon Lao Co., Ltd.

### Changes in Water Reuse at the Nikon Group in Japan and Group Manufacturing Companies Outside Japan

