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Responding to Environmental Issues



Priority Issues

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Reason for Priority

With the increasing effects of climate change becoming apparent such as with more frequent occurrences of abnormal weather and the IPCC's special report, *Global Warming of 1.5°C*, more innovative initiatives and a sense of urgency are more than ever necessary to control climate change. Due also to the depletion of natural resources and problems with waste disposal, a circular economy which implements resource circulation is garnering attention, as opposed to an economy that simply consumes resources. In contrast, for the management of chemical substances contained in products, legally regulated substances and applicable areas are steadily on the rise which means companies need to respond appropriately and reliably in their business activities.

Commitment

In November 2018, Nikon signed the Task Force on Climate-related Financial Disclosures (TCFD). So that we may contribute to the transition to a low-carbon economy, we would like to respond to stakeholders' requests for information disclosures on climate change. The Nikon Group positions the realization of a low-carbon society, a resource circulating society, and a healthy and environmentally safe society as the Group's Long-Term Environmental Vision, and promotes various activities aimed at the realization of this Vision. We shall continue to work to reduce greenhouse gases throughout the entire supply chain by first streamlining the development and production processes and expanding the uses for renewable energy, as well as by reducing the size and weight of products, and by reducing the amount of power products use. Nikon is also working to reduce its environmental impact through more efficient use of resources, promoting the 3Rs (Reduce, Reuse, Recycle), and more appropriate management of chemical substances.

Activity Policies

- Nikon Long-Term Environmental Vision
- Nikon Environmental Activity Policy
- Nikon Basic Green Procurement Policy
- Nikon Green Procurement Standards
- Paper Procurement Policy

System

- Environmental Committee

Management System

- ISO 14001

Takumi Odajima

Senior Vice President and Director

General Manager of Human Resources & Administration Division

Chairperson of the Environmental Committee

Nikon Environmental Management

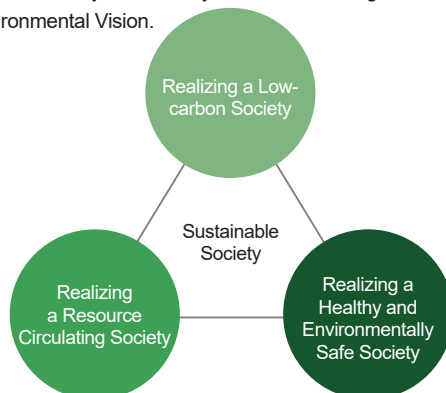
The Nikon Group has formulated the Nikon Long-Term Environmental Vision, the Medium-Term Environmental Goals and the Environmental Action Plan, and systematically conducts environmental activities to develop a sustainable society.

Formulation of Long-Term Environmental Vision and Medium-Term Goals

To proactively address environmental risks and regulations, in April 2016, we formulated the Nikon Long-Term Environmental Vision, which looks ahead to the next several decades. The Nikon Long-Term Environmental Vision comprises three pillars believed to be particularly important given the situation globally and considering the characteristics of Nikon's business, which uses limited resources to manufacture and sell products.

Nikon Long-Term Environmental Vision

The Nikon Group contributes to building a sustainable society by positioning the realization of a low-carbon society, a resource circulating society, and a healthy and environmentally safe society as the Nikon Long-Term Environmental Vision.



Medium-Term Environmental Goals

The Nikon Group has defined its initiatives up until 2030 in the Nikon Medium-Term Environmental Goals to realize the Nikon Long-Term Environmental Vision. The targets laid out for each individual pillar are presented below.

Medium-term Targets for Realizing a Low-carbon Society

- Reduce CO₂ emissions throughout the entire supply chain by 26% compared with the fiscal 2013 level
- Strive for technological development that is conducive to climate change measures

Medium-term Targets for Realizing a Resource Circulating Society

- Make efforts throughout the product life cycle to achieve a resource circulating society, taking into account the impacts that products have on the environment from the initial planning stage onwards
- Work to further increase resource efficiency and strive to reduce waste by increasing the usage of resources with fewer environmental impacts during business activities

Medium-term Targets for Realizing a Healthy and Environmentally Safe Society

- Aim to maintain the natural environment of communities and provide a comfortable living environment
- Comply with the laws, ordinances and regulations of the countries and regions where we operate and also establish our own voluntary targets to ensure the appropriate management of the use of chemical substances

Environmental Action Plan

In order to achieve the Group's Medium-Term Environmental Goals the Nikon Group has formulated the Nikon Environmental Activity Policy and then set out what we intend to achieve in the next 5 to 10 years. We have mapped out each year's goals in our Environmental Action Plan, and are implementing this plan across the entire Nikon Group. We clarify the relationship between the environment and our business activities and then make an accurate assessment of the impacts and risks posed to the environment, thereby developing prioritized environmental goals and plans. The Environmental Committee deliberates the self-evaluation of the performance and then approves them. We review our action plans for the following years based on the issues that are identified by the Committee.

▶ [Nikon Environmental Activity Policy](https://www.nikon.com/about/sustainability/environment/environment_policy.pdf)
https://www.nikon.com/about/sustainability/environment/environment_policy.pdf

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Environmental Action Plan Results for the Fiscal Year Ended March 31, 2019 [Summary]

Self-evaluation ○: Achieved △: Measures started but not yet achieved

Priority Activity Themes		Targets for the Fiscal Year Ended March 31, 2019	Results	Self-evaluation	Corresponding Page
Low-carbon society	Greenhouse gas reduction (CO ₂ emissions from energy consumption)	<ul style="list-style-type: none"> Reduce business facility CO₂ emissions by at least 14.4% compared to the fiscal year ended March 31, 2014 Implement survey of renewable energy initiatives Set Science-based Targets (SBTs) 	<ul style="list-style-type: none"> Annual CO₂ emissions decreased by 6.8% compared to previous fiscal year, and decreased 19.3% compared to the fiscal year ended March 31, 2014 Focused on solar power generation and led the way in possible installations. We will continue to look at tangible installations SBTs set. Submitted our commitment letter 	○	P62
	Reduction of the environmental impact from products (Improvement of resource efficiency)	<ul style="list-style-type: none"> Promote environmental impact assessment that uses the LCA methodology Create Eco-friendly Products 	<ul style="list-style-type: none"> Expanded the range of product models to calculate LCA About 60% of all new products in the fiscal year ended March 31, 2019 certified as Eco-friendly Products 	○	P56
	Reducing the environmental impact of transportation	<ul style="list-style-type: none"> Implement continuous monitoring of CO₂ emissions Improve the loading ratio of inter-national logistics and promote modal shifts Continue to review logistics routes in Japan 	<ul style="list-style-type: none"> Collected and analyzed data needed to calculate CO₂ emissions Promoted transport by railway, improved shipping rates, carried out estimates and trials for manufacturer-direct expansion Continued to work on highly efficient transportation for distribution in Japan 	○	P66
Resource circulating society	Zero emissions	<ul style="list-style-type: none"> Nikon and Group manufacturing companies in Japan: Maintain level S Group manufacturing companies in China: Maintain level 1 	<ul style="list-style-type: none"> Nikon and Group manufacturing companies in Japan: Maintained level S (Final landfill disposal rate 0.41%) Group manufacturing companies in China (Hikari Glass (Changzhou) Optics Co., Ltd., Nanjing Nikon Jiangnan Optical Instrument Co., Ltd.): Maintained level 1 (Final landfill disposal rate 0.65%) 	○	P72
	Waste reduction (excluding valuable resources)	<ul style="list-style-type: none"> Nikon and Group manufacturing companies in Japan: Not exceed the amount of waste generated in previous fiscal year Implement measures to recycle chemical substances 	<ul style="list-style-type: none"> Achieved 78.3% waste emissions (excluding valuable resources) from Nikon and Group companies in Japan compared to previous year Established a method to reuse abrasives for recycling waste. Planned to develop the reuse method in polishing workplaces within the Group 	○	P72
	Promoting the appropriate use and effective utilization of water	<ul style="list-style-type: none"> Formulation of targets for enhancing water use efficiency in line with the level of water risk in each region 	<ul style="list-style-type: none"> Established goals of reducing water consumption by reuse of ultrapure water system drainage 	○	P74
	Promotion of reduce, reuse and recycling	<ul style="list-style-type: none"> Promote the reuse and recycling of products, parts and materials 	<ul style="list-style-type: none"> Continued sales of refurbished semiconductor lithography systems Received the Chairman's Award from the 3R Promotion Council for reuse and reduce activities of semiconductor lithography systems 	○	P68
Healthy and environmentally safe society	Activities to reduce the environmental impact of chemical substances	<ul style="list-style-type: none"> Implementation of activities based on Nikon Group Chemical Substance Management Guidelines 	<ul style="list-style-type: none"> Decided measures to completely abolish 1-bromopropane in all departments and completed its replacement in half of all facilities 	○	P80
	Regional activities, etc.	<ul style="list-style-type: none"> Implementation of activities that make a contribution to the local community, taking into account biodiversity in line with business activities and local needs 	<ul style="list-style-type: none"> 789 employees participated in cleaning and cutting grass in areas around business facilities and local environmental conservation activities 	○	P83
	Reduction of hazardous chemical substances, etc.	<ul style="list-style-type: none"> Maintain compliance with the hazardous chemical substances laws and regulations of each country (RoHS, REACH, etc.) Start full-scale operation of chemSHERPA* 	<ul style="list-style-type: none"> Complied with the hazardous chemical substance laws of each country (RoHS, REACH, etc.) Completed substitution of four phthalates subject to RoHS ChemSHERPA was introduced in all business units 	○	P76
	Implementation of activities aimed at biodiversity conservation	<ul style="list-style-type: none"> Promote FSC-certified paper use for newly-printed paper items with Nikon logo 	<ul style="list-style-type: none"> Product catalogs: About 99% of new orders in Japan (except for special paper) used FSC-certified papers Instruction manuals: More than half of new orders in Japan used FSC-certified papers Product packaging boxes: Started to use FSC-certified papers with binoculars, etc. 	○	P84
	Green procurement	<ul style="list-style-type: none"> Improve the efficiency of Nikon Green Procurement auditing operations with respect to procurement partners 	<ul style="list-style-type: none"> 20% of target audits have begun as a trial 	△	P78

*chemSHERPA: A scheme that facilitates sharing information on chemical substances in products.

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Environmental Action Plan Targets for the Fiscal Year Ending March 31, 2020 [Summary]

Priority Activity Themes		Targets for the Fiscal Year Ending March 31, 2020	What We Intend to Achieve in 5 to 10 Years
Low-carbon society	Greenhouse gas reduction	<ul style="list-style-type: none"> Reduce CO₂ emissions from energy consumption by at least 1.0% compared to the fiscal year ended March 31, 2019 Create plan and implement measures for renewable energy Submit SBT for validation 	<ul style="list-style-type: none"> Reduce CO₂ emissions throughout the entire supply chain by 26% compared with the fiscal 2013 level by 2030
	Reduction of the environmental impact from products (Improvement of resource efficiency)	<ul style="list-style-type: none"> Promote environmental impact assessment that uses the LCA methodology Create Eco-friendly Products 	
	Reducing the environmental impact of transportation	<ul style="list-style-type: none"> Reduce CO₂ emissions by 2.7% compared to the fiscal year ended March 31, 2019 Improve the loading ratio of international logistics and promote modal shifts Increase the efficiency of logistics routes in Japan 	
Resource circulating society	Zero emissions	<ul style="list-style-type: none"> Nikon and Group manufacturing companies in Japan: Maintain level S Group manufacturing companies in China: Maintain level 1 Group manufacturing companies outside Japan: Implement initiatives in line with conditions of country 	<ul style="list-style-type: none"> Work to further increase resource efficiency and strive to reduce waste by increasing the usage of resources with fewer environmental impacts during business activities Promote less water consumption and promote resource circulation suited to local regions such as effective use of rainwater and groundwater, and reuse of waste water Work positively towards water risk measures Make efforts throughout the product life cycle to achieve a resource circulating society, taking into account the impacts that products have on the environment from the initial planning stage onwards
	Waste reduction (excluding valuable resources)	<ul style="list-style-type: none"> Nikon and Group manufacturing companies in Japan: Less than emissions of the fiscal year ended March 31, 2019 Group manufacturing companies outside Japan: Examine emission reduction measures Nikon and manufacturing companies in and outside Japan: Implement measures to recycle chemical substances 	
	Promoting the appropriate use and effective utilization of water	<ul style="list-style-type: none"> Manufacturing facilities: Decide on measures to improve water use efficiency The entire Nikon Group: Start water risk survey 	
	Promotion of reduce, reuse and recycling	<ul style="list-style-type: none"> Promote the reuse and recycling of products, parts and materials 	
Healthy and environmentally safe society	Activities to reduce the environmental impact of chemical substances	<ul style="list-style-type: none"> Comply with Nikon Group Chemical Substance Management Guidelines 	<ul style="list-style-type: none"> Aim to maintain the natural environment of communities and provide comfortable living environment
	Regional activities, etc.	<ul style="list-style-type: none"> Implement activities that make a contribution to the local community, taking into account biodiversity in line with business activities and local needs 	
	Reduction of hazardous chemical substances, etc.	<ul style="list-style-type: none"> Maintain compliance with the hazardous chemical substances laws and regulations of each country (RoHS, REACH, etc.) Continue the operation of chemSHERPA 	<ul style="list-style-type: none"> Comply with the laws, ordinances and regulations of the countries and regions where we operate, and also establish our own voluntary targets to ensure the appropriate management of the use of chemical substances
	Implementation of activities aimed at biodiversity conservation	<ul style="list-style-type: none"> Promote FSC-certified paper use for newly-printed paper items with Nikon logo 	<ul style="list-style-type: none"> Promote activities aimed at safeguarding biodiversity
	Green procurement	<ul style="list-style-type: none"> Decide on measures for Company-own outsourced parts 	<ul style="list-style-type: none"> Maintain and manage the Environmental Management System in the supply chain