

Others

The Challenge to Solve Social Issues

Strategies and Risk Management

NYK Group's Basic Stance on Human Rights Systems and Programs

Initiatives

- Environmental Preservation
- Supporting Developing Countries
- Realizing an Inclusive Society
- Fostering Future Generations
- Community investment
- Disaster Relief

Related Data

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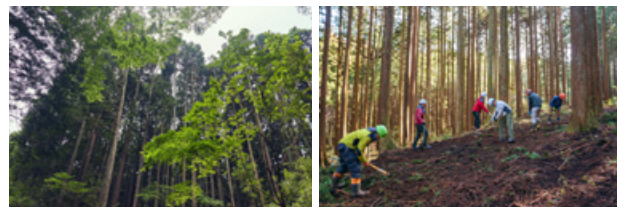
Initiatives

Environmental Preservation

The Group continues to conduct its business in the natural environment and is thus involved in environmental preservation of the marine environment and biodiversity conservation activities. Among these activities is "Giving Back to the Oceans," our marine environment conservation initiative positioned within the "NYK Group ESG Story." Through our activities, we collaborate with partnering non-profit organizations and educational institutions seeking to protect the irreplaceable treasures that are our oceans.

• The "Yu no Mori" Reforestation Project

Under the "Yu no Mori" Reforestation Project, the Group employees worked with the local community to revitalize a forest with a wide variety of vegetation by regenerating a man-made forest of mainly coniferous trees. After concluding a regional revitalization through a forest development partnership agreement with Gotemba City in April 2022, the project was officially launched in May 2024. Working together with the Group employees as well as the local community members, we aim to plant our cherished forests.



The "Yu no Mori" Forest Revitalization Project

Scene of forest maintenance

• Kishu Minabe Sea Turtle Research Project

Since 2016, NYK has supported the "Kishu Minabe Sea Turtle Research Project" launched by Earthwatch Japan,* a specified non-profit organization. Every July, a group of approximately 20 volunteers comprising Group employees and local community members participate in a survey to deepen understanding of changes to the natural environment and living things.

Minabe town in Wakayama Prefecture is the largest place on the main island of Japan where loggerhead sea turtles lay their eggs, but now sea turtles are in danger of dying out. Research of the sea turtle's lifestyle has been undertaken since 1990 in Minabe town. In this program, volunteers who work under the guidance of researchers from the Sea Turtle Association of Japan and the Minabe Sea Turtle Research Project (run by a local citizen group) check and assist with attaching identification tags to the loggerhead sea turtles that come ashore at night to lay their eggs, and measuring the length and width of the turtles' shells.



Loggerhead sea turtle

Volunteering participants

*Kishu Minabe Sea Turtle Research Project:

In Minabe town of Wakayama Prefecture, loggerhead turtles are spotted yearly at Senrinohama Beach and the nearby Iwashirohama and Takahama beaches. However, due to a lack of personnel and other reasons, surveys for individual identification of these turtles have not progressed. With the help of volunteers, this program conducts surveys to count the number of eggs laid throughout a turtle's life with the goal of contributing to preserving the loggerhead turtle and revealing their ecology.

• Visualizing Diversity Using Environmental DNA and Contributing to the Realization of a Nature-Positive Society

The NYK Group is a member of the ANEMONE* Consortium, a network that aims to realize a natural symbiotic society utilizing environmental DNA, and contributes to the expansion of a database by providing seawater samples and to the expansion of the survey areas. Our company vessels conduct sampling of seawater to gather environmental DNA (DNA originating from living things that exist in the natural environment, such as in water and soil). The samples are then analyzed at Hokkaido University and Tohoku University in Japan, and the analysis results are released on the ANEMONE Database.

Environmental DNA analysis is a revolutionary form of ecological survey that allows researchers to understand the variation and distribution of organisms living in the surrounding waters from as little as a single bucket of water. The aim of visualizing biodiversity is to incorporate this information into economic considerations. We will continue to provide our knowledge from a corporate perspective to put the results of this project into practice in society, thereby contributing to the conservation of biodiversity and the realization of a nature-positive society.

* ANEMONE: ANEMONE stands for All Nippon eDNA Monitoring Network, a biodiversity observation network using environmental DNA (eDNA).

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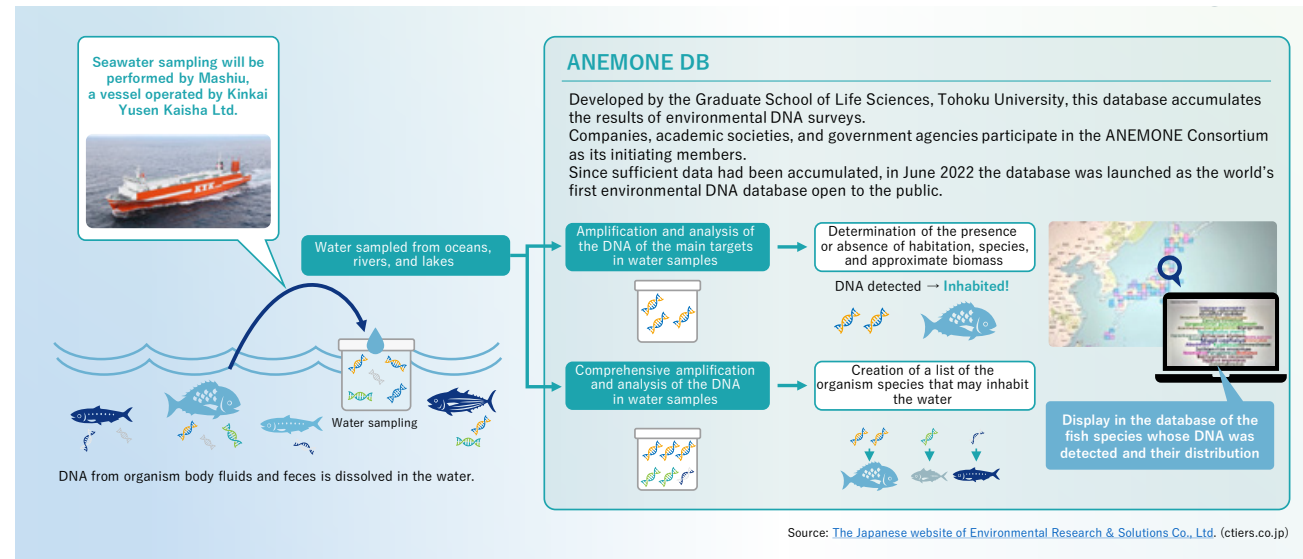
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Overview of ANEMONE Consortium

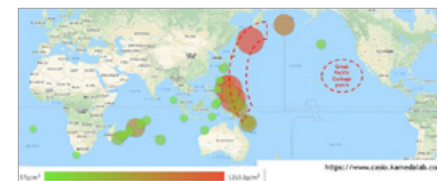


Contribution to the Analysis of Marine Plastics Pollution

Since 2020, NYK and the Chiba Institute of Technology have been working on world-leading marine surveys targeting all ocean areas with an aim to reveal the state of the distribution of mainly marine plastics constituting microplastics measuring 5 mm or less. Thus far, the microplastic samples have been collected from more than 150 locations by utilizing the network of vessels held and operated by the Group. Once the samples are analyzed by Kameda Laboratory at the Chiba Institute of Technology, the results are published on a website as the World Marine Plastic Garbage Map.



NYK's Vessel Network



World Marine Plastics Garbage Map

In January 2023, NYK donated a "Raman microscope" capable of analyzing ultra-fine microplastics to the Chiba Institute of Technology. Using the Raman microscope, the Kameda Laboratory has been able to establish the world's first method of automatically analyzing ultra-fine microplastics. The donation of the microscope has enabled world-leading research to fundamentally solve the problem of marine plastics.

We will continue to collect samples on our vessels and expand the range of waters we survey. Moreover, we will continue to contribute to the international community by supporting Chiba Institute of Technology's efforts to establish methods for marine surveys focused on ultra-fine microplastics, and by supporting the provision of survey results with actual measurement data that will directly lead to a fundamental solution to the issue of marine plastics.

Contribution to the Atmosphere Analysis Research of Tohoku University

NYK is participating in a Tohoku University research project to study global greenhouse gas distribution and circulation. For more than 40 years since 1982, sample air has been taken at sea on two container ships shuttling between Japan and Australia, and on another traveling between Japan and North America. Analysis results of the sampled air have already revealed that the northern and southern hemispheres have varying concentrations of CO₂, and also that concentrations fluctuate seasonally and yearly. By adding observation points on the ocean to points on land, we have contributed to research in this area.

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● International Science Project "Argo Program"

The Argo Program is a project for launching floats (Argo floats) capable of monitoring ocean waters for changes in water temperature, salinity, and pressure. Approximately 3,000 Argo floats are deployed around the world, one for every 300 square kilometers of ocean, to monitor changes in the oceans indicating the effects of climate change. On November 19, 2010, NYK concluded an agreement titled "Agreement on Cooperation in Deployment of Scientific Floats for Global Ocean-Monitoring" with the Japan Agency for Marine-Earth Science and Technology (JAMTEC), a national research organization. For over a decade, the Company has been launching Argo floats, advancing the Argo Program, and contributing to the achievement of the Sustainable Development Goals (SDGs) defined by the UN.

Scientists around the world utilize the measurement results of the Argo floats in their investigations and research. Through summary reports of the UN-established Intergovernmental Panel on Climate Change (IPCC), the knowledge acquired from the plan is utilized in the framework of international global warming countermeasures and the policy decisions governing each country's response to climate change. Recently, in addition to climate change predictions regarding the El Niño phenomenon, the research has also contributed to improving the accuracy of weather reports, which are generally more familiar.

Going forward, NYK will continue to utilize the bounty of vessels we own and our shipping routes to launch Argo floats to remote areas that are difficult to access for the ships of the stakeholder organizations.

● Beach Cleaning

Since fiscal 2022, NYK has been participating in beach cleaning on Enoshima and Katase Nishi beaches in Kanagawa Prefecture. The beach cleaning activity is organized in collaboration with Nishi Hama Surf Life Saving Club (a specified nonprofit organization) as an environmentally friendly event, which the Company employees attend with their families.



Tullahan FY2023 beach cleaning

● Supporting Environmental Preservation in the Mikawa Bay Area

In June 2023, NYK donated 3 million yen to Nishio City in Aichi Prefecture to support the environmental preservation activities in Mikawa Bay area, where many vessels enter and leave port. The funds mainly went toward activities such as surveys and replanting of seaweed beds* and eelgrass seedlings. Moreover, since 2023, the Group employees have also been participating as volunteers for the annually held eelgrass replanting.

*Seaweed bed: A location where a variety of seaweed grow. Also referred to as the cradles of the seas, they are an important habitat that fulfills the roles of filtering water and providing a place for laying eggs and raising the young of sea creatures.

● Participation in Recycling Activities

We have been participating in the collection of empty disposable contact lens cases. The collected empty contact lens cases are recycled into various products, and resourced into a variety of products.

● NYK Donates to San Miguel Corporation (SMC) River Cleanup Project

NYK decided to donate a total of 1.5 million dollars over five years in support of the Pasig River and the Tullahan-Tinajeros River system cleanup efforts being implemented by the San Miguel Corporation. San Miguel is currently dredging and cleaning the Pasig River, along with the Tullahan-Tinajeros River system, to mitigate flood damage and prevent the discharge of waste into the ocean. NYK's donation was used to purchase the excavators, the equipment for dredging and cleaning these rivers to support the project. The excavators were transported from Japan to the Philippines by vessels operated by NYK, and in the Philippines by tractor trucks managed by Yusen Logistics Co. Ltd. The transport process was supported by the NYK Group, from start to finish.



Contributing to River Cleanup Efforts

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● Other Environmental Activities Conducted Overseas

Aiming to raise awareness of the environment among the Group employees at our overseas bases and further our engagement, the Company employees have been participating in local environmental activities.

(Europe)

Removal of Garbage From London's Rivers and Restoring Habitats



(Americas)

Oyster Habitat Restoration Activities to Improve the Environment and Ecosystem of New York Harbor



(Asia)

Tree-Planting Activities to Recover Mangrove Forests



Link

For more information, click on the link below.

▶ **The Great River Rescue Campaign (thames21.org.uk)**
<https://www.thames21.org.uk/joinacampaign/greatriverrescue/>

▶ **Billion Oyster Project**
<https://www.billionoysterproject.org/>

▶ **Bangpu Nature Education Center**
<https://www.facebook.com/profile.php?id=100064828595593&mibextid=LQQJ4d>



Participants in FY2023 Tree Planting in Thailand

Supporting Developing Countries

Utilizing the resources of the Group, we support the realization of a society that can provide equal opportunities for education, health, and labor to people in developing countries.

● Transport Assistance for Used School Backpacks

NYK offers free transport assistance via a group company that operates container ships to support "School Backpack Supplies to School Children Program" in Afghanistan. This program is organized by JOICFP (Japanese Organization for International Cooperation in Family Planning) in which the organization donates used school backpacks of Japanese children to the children in Afghanistan.

Many of the school children in Afghanistan walk over 10 kilometers one way along steep mountain paths to attend open-air schools. By carrying textbooks and notebooks in school backpacks, they can safely walk along dangerous mountain paths. Previously, the guardians considered their children as wage workers; however, after observing children commuting to school with school backpacks, they began to become aware of the significance of education. The backpacks are now fundamental symbols of education among people in Afghanistan.



School Backpack Supplies to School Children Program

● Transport Assistance for Picture Books

We support the "Books for Children" campaign of the Shanti Volunteer Association (SVA), a public corporation that provides educational support to children in Asia. Since 2004, we have been working with a group company that operates container ships to provide transportation services to Cambodia, Laos, and other countries.

The SVA has participated in volunteer activities since 1999 by attaching translations in local languages to picture books written in Japanese. There are not enough schools, teachers, or textbooks in Cambodia and Laos due to national conflicts and poverty, and few local children's book authors. Picture books that are distributed by the SVA, are delivered to libraries in needy areas and used in classrooms to improve literacy and emotional education.



Books for Children Campaign