

Others

Community

Governance

Initiatives

- Towards the improvement of the quality of life of Filipino seafarers and their families
- Towards contributing to the development of the local economy and society

Community

Governance

The NYK Group has launched initiatives to contribute to regional coexistence and local revitalization under the medium-term management plan “Sail Green, Drive Transformations 2026 - A Passion for Planetary Wellbeing.” This plan aims to create future value and growth through two pillars: “Deepening core existing businesses” and “Developing new growth businesses.” These initiatives include addressing the living challenges of Filipino seafarers' families, inheriting traditional culture through the use of passenger ship business, and engaging in the offshore wind power value chain.

In addition, we will thoroughly carry out responsible actions as a corporate citizen based on the “NYK Code of Conduct” and the “CSR Guidelines for Partners and Suppliers” (as of July 2024), and we will respect human rights and diverse cultures (including the cultures, customs, and languages of each country and region), and we will strive for harmony between the international community and local communities.

Initiatives

Towards the improvement of the quality of life of Filipino seafarers and their families

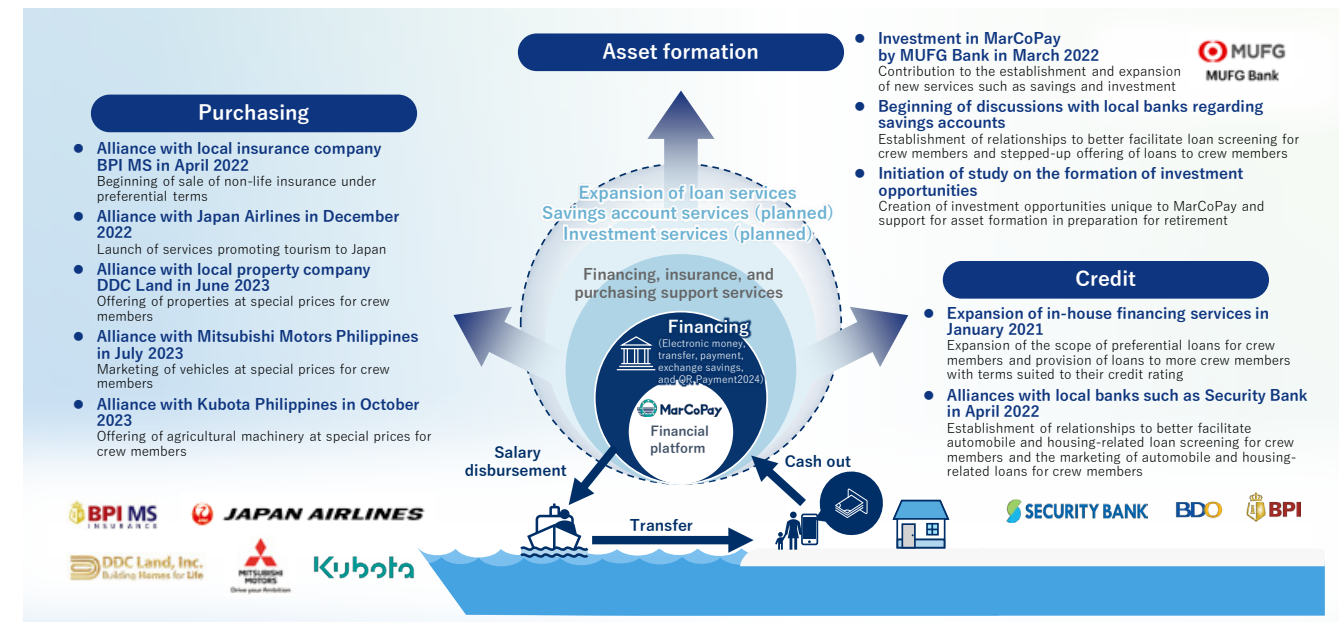
The Philippines is the world's leading supplier of seafarers, with around 220,000 Filipinos working as seafarers on ocean-going cargo ships. If we look at the Japanese merchant fleet alone, it is no exaggeration to say that the maritime industry in Japan and around the world is supported by Filipino seafarers, as approximately 40,000, that is to say 70% of all seafarers currently on board, are Filipinos.

On the other hand, Filipino seafarers face the challenge of having

difficulty accessing financial services such as insurance and bank loans, despite being in the high-income bracket, which is significantly higher than the average in their home country, due to circumstances such as (1) being considered as temporary employees for each period of service on board and (2) being classified as overseas workers and being required to prepare complicated documents.

In order to resolve this issue, which concerns the livelihood rights of seafarers' families, the NYK Group is creating and providing various services by connecting MarCoPay Inc. (Maritime Community Pay), a life support platform for seafarers that uses electronic currency, with a variety of partners.

■ MarCoPay, which expands the scope of services



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Towards contributing to the development of the local economy and society

Community

Towards contributing to the development of the local economy and society

Offshore wind power

The NYK Group has started working in the offshore wind power business as a new business area.

Offshore wind power is seen as a major source of renewable energy in Europe, and in Japan too, it is being regularly promoted as a "trump card for renewable energy" by both; public sector and private sector.

Offshore wind power is a long-term project that lasts for 25 years or more, from the survey and construction stages through to the operation stage, and when you look at everything from the construction stage to the maintenance and management after the operation starts, the related industries are also diverse. With the entry into offshore wind power, the NYK Group will take on the challenge of solving important issues that Japan is facing, such as "Ensuring Energy Stability" and "Revitalizing Regions and Restoring International Competitiveness."

Collaboration with Akita Prefecture

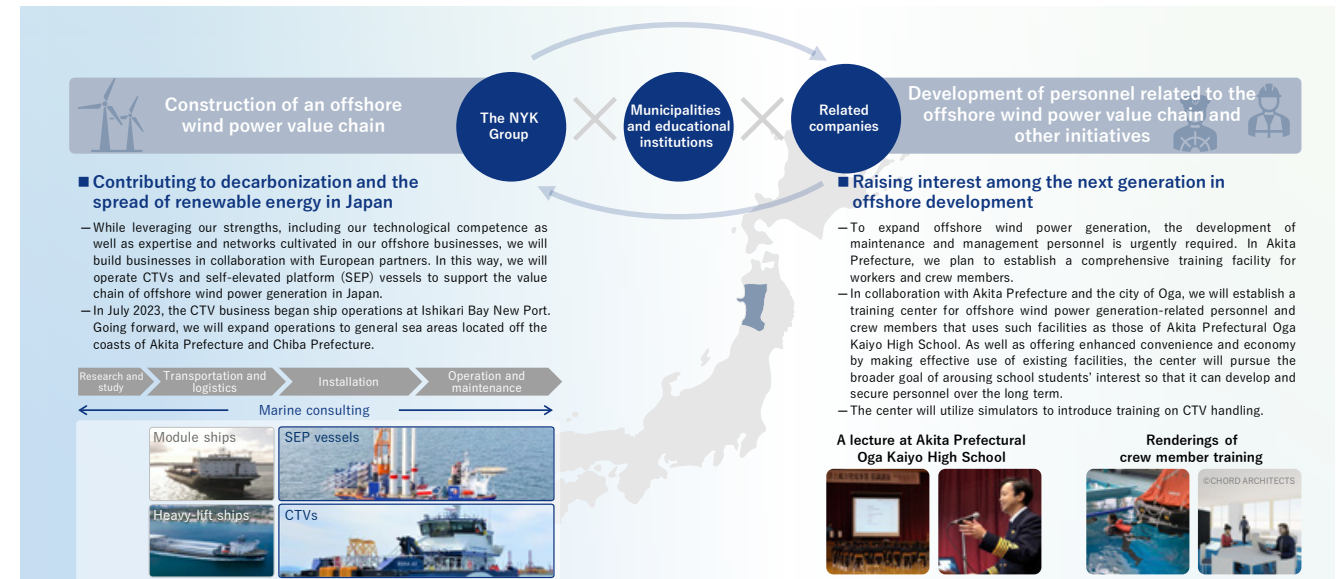
Under the Comprehensive Collaborative Agreement with Akita Prefecture, our Akita branch has been in operation since April 2022. The branch is working towards regional revitalization through the promotion of renewable energy projects, including offshore wind power, and the development of related human resources, as well as through the use of ports, the development of ship-related human resources, tourism promotion, and environmental conservation.

In areas with a high population outflow, including Akita Prefecture, creating local employment opportunities is an issue, so the Company is also focusing on developing human resources within Akita Prefecture.

In April 2024, we opened the offshore wind power training

center, "Wind and Sea School Akita," where we will provide basic safety training for offshore wind turbine workers (GWO Basic Safety Training), basic safety training for seafarers (STCW Basic Training), and Crew Transport Vessel (CTV) maneuvering training. In addition to contributing to the stability of Japan's electricity supply through offshore wind power, we aim to become a base for regional revitalization and to attract new people to the prefecture, not only from within the prefecture but also from outside the prefecture. In addition, by leveraging the unique feature of having the training center located within a school in Akita Prefecture, a leading region for offshore wind power, we aim to contribute to the development of the next generation of human resources.

Regional revitalization in Akita through offshore wind power generation projects



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Towards contributing to the development of the local economy and society

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> Collaboration with Hokkaido

In January 2024, the Company concluded a "Memorandum of Understanding on Cooperation and Collaboration" with Hokkaido, and on April 1, we opened a Hokkaido branch. The NYK Group has already begun ^{*1} operating a Crew Transport Vessel (CTV) for the Ishikari Bay New Port Offshore Wind Farm since July 2023, and we aim to participate in the investigation, transportation, construction, and maintenance management stages of any offshore wind power projects that are expected to be developed in Hokkaido in the future. In addition, through the development of ammonia fuel ships and CCS^{*2} projects, we will contribute to the realization of a decarbonized society in Hokkaido, and we will also respond to the demand for logistics associated with the construction of semiconductor factories and data centers within Hokkaido, as well as the growing demand for domestic shipping, which aims to shift transport from trucks to ships, with the aim of contributing to the regional revitalization through the promotion and revitalization of logistics.

^{*1} The Company owns CTV, and our group company, Hokuyo Kaiun Co., Ltd., which is based in Hokkaido, operates and manages the ships.

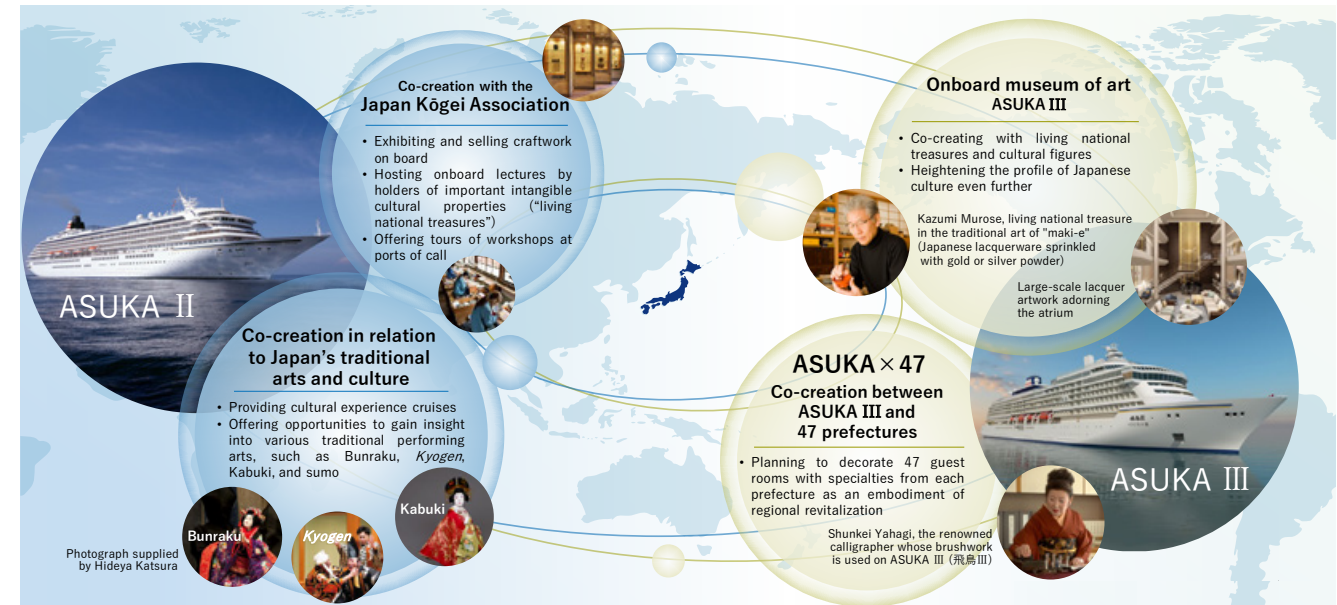
^{*2} CCS (Carbon dioxide Capture and Storage): Carbon dioxide (CO₂) capture and storage

● Passing on traditional culture through cruise ships

The "MS Asuka II," a cruise ship that represents Japan and is operated by our group company NYK Cruises Co., Ltd., has led the development of the Japanese cruise culture. On the "MS Asuka II," in addition to exhibitions of works created by people such as Holders of Important Intangible Cultural Property (so-called "Living National Treasures") from 2022, there are also port of call sightseeing tours of workshops and talk events. In addition, handicrafts are sold on board, and part of the proceeds are donated to help preserve traditional Japanese culture.

In 2025, the "MS Asuka III" will enter service, and the fleet will expand to two ships. The NYK group will bring together people and regions through cruise culture, and these two ships will sail into the future and promote regional revitalization and Japanese culture more than ever before.

■ Asuka Cruise that Connects Japanese Culture to the World



Others

Supply Chain

Governance

Strategies and Risk Management

- Strategy
- Risk Management

Initiatives

- Joint development of ammonia-fueled ships for decarbonization of ships
 - A challenge to design new ships using 3D models
 - Establishment of evaluation methods for the “performance in real sea conditions” of ships agreed upon in shipbuilding contracts

Supply Chain

Governance

In accordance with the “NYK Group Environmental Policy,” our group is working to minimize the environmental impact of the procurement of transportation equipment, including ships, and is also working to implement new technologies and other innovations in society through co-creation with suppliers.

In addition, the “NYK Code of Conduct” stipulates that we will not engage in any business practices that hinder free competition, such as unfair business practices, and that we will not abuse our dominant position in transactions with partner companies, and we are thoroughly ensuring compliance with competition and anti-monopoly laws.

Strategies and Risk Management

Strategy

In our shipping business, which has a fleet of approximately 800 vessels (as of the end of March 2024), ships are the main item procured. A ship comprises tens of thousands of components, including engines, propellers and other propulsion equipment, cranes and other cargo handling machinery, and radar and other navigation equipment.

We recognize that enhancing the value of the broad-based ship supply chain and strengthening competitiveness is an important strategy not only for securing ships, which are essential for stable international marine transport, but also from the perspective of securing regional economies and employment and contributing to economic security.

The NYK Group is taking the opportunity of fuel conversion to achieve zero emissions and, together with its many stakeholders, including suppliers, is aiming to be the first in the world to supply

ships with high environmental performance and safety, using the technological capabilities of the Japanese maritime industry.

Risk Management

Based on international norms such as the United Nations’ “Guiding Principles on Business and Human Rights,” our group has established “CSR Guidelines for Partners and Suppliers” that cover items such as human rights, labor, legal compliance, safety, and environmental conservation. We request that our suppliers understand the purpose and content of these guidelines and promote and comply with CSR activities.

In addition, our group conducts human rights due diligence to identify potential human rights violations in the supply chain, identify and assess the impact, and implement the PDCA cycle to prevent or mitigate negative impacts.

For more information, click on the link below.

P.069 [Human Rights](#)

Initiatives

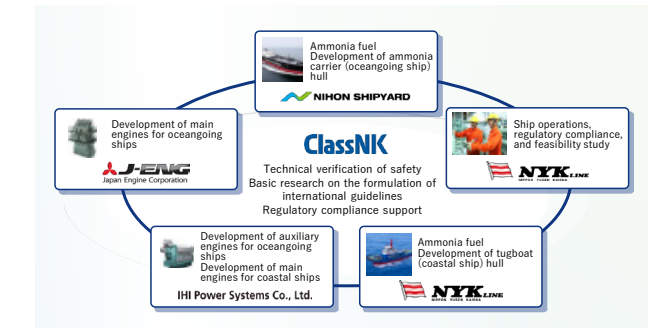
Joint development of ammonia-fueled ships for decarbonization of ships

As part of the Green Innovation Fund Project, a grant from the New Energy and Industrial Technology Development Organization (NEDO), five parties including Japanese shipbuilders, engine manufacturers and classification societies are working together to develop ammonia-fueled ships, with development beginning in 2022.

For more information, click on the link below.

P.032 [Decarbonization](#)

Co-creating organizations



Others

Supply Chain

Governance

Strategies and Risk Management

Strategy

Risk Management

Initiatives

Joint development of ammonia-fueled ships for decarbonization of ships

— A challenge to design new ships using 3D models

— Establishment of evaluation methods for the “performance in real sea conditions” of ships agreed upon in shipbuilding contracts

Supply Chain

A challenge to design new ships using 3D models

In March 2024, we obtained 3D certification from Nippon Kaiji Kyokai for the basic design drawings of a new multipurpose container ship. This is the first case in the world* of an ocean-going vessel being completed from the initial stage of basic design to class approval using only 3D (three-dimensional) drawings.

Taking the opportunity of acquiring this certification, which solves the various information sharing issues that had arisen in the existing process using 2D drawings, our company will effectively utilize 3D drawings, contribute to shortening the certification period and promoting communication between related parties, and aim to procure ships with higher safety and environmental performance.

* As of March 28, 2024, according to a survey by our company and Nippon Kaiji Kyokai

Establishment of evaluation methods for the “performance in real sea conditions” of ships agreed upon in shipbuilding contracts

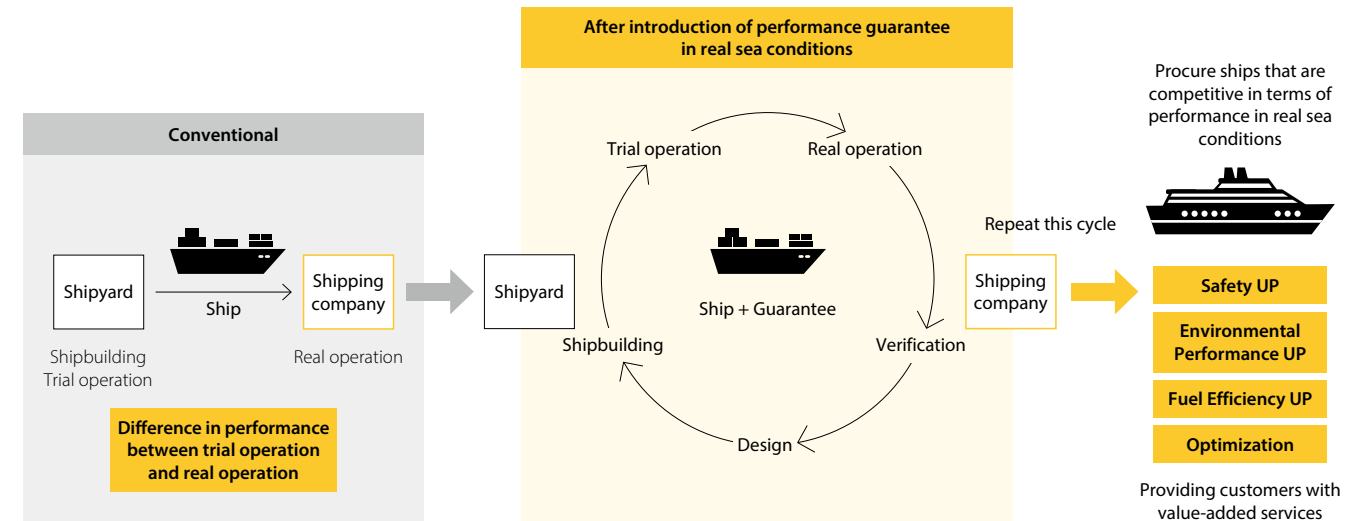
Our company and Japan Marine United Corporation have been working to estimate performance in real sea conditions* before shipbuilding. In March 2024, after a year of verification of performance in real sea conditions on crude oil tankers operated by our company, the two companies agreed on and established a method for evaluating performance in real sea conditions that is both technical and objective.

In the future, we will promote similar initiatives for various types of ships, aiming to create a system that can estimate and evaluate

the performance of ships in real sea conditions when building contracts for new ships, and we will procure ships with high fuel efficiency in collaboration with our partner shipyards.

* In the past, it was common for shipbuilding contracts to set and agree on guaranteed speeds based on the relationship between ship speed and horsepower in calm weather and sea conditions (in still water performance), and for shipyards and shipping companies to mutually confirm the guaranteed speed during sea trials during construction. However, since actual voyages after the ship's launch are strongly affected by waves and wind, there was a problem of a large discrepancy between the guaranteed performance in calm water and the propulsion performance (performance in real sea conditions) in weather and sea conditions with waves and wind.

Overview of Performance Guarantee in Real Sea Conditions



Others

Intellectual Property

Governance

— Organization

Strategy and Risk Management

- Obtaining Intellectual Property Rights
- Intellectual Property Evaluation and Reward System

Protection of the intellectual property rights of the NYK Group

Understanding and Respecting the Intellectual Property Rights of Others

Utilization and Contribution of Intellectual Property

Initiatives

Representative Examples of Patents

Relevant Data

Intellectual Property

Governance

Safety is the foundation of our group's business continuity, and our continued efforts to always stay one step ahead in safe operation is what differentiates us from competitors. Ahead of international environmental regulations, in addition to reducing GHG emissions, we believe that contribution to the industry as a whole will directly link to the materiality of the NYK Group by taking the lead in meeting the "environmental" needs of ships from various perspectives (such as pollution prevention and ecosystem protection) and by taking the lead in new initiatives in areas (related to "safety" and "human resources") such as autonomous ships that are attracting increasing attention from the perspective of improving safety, addressing crew shortages, and ensuring logistics stability.

We are committed to R&D and technological development as the linchpin of value creation through the practice of materiality. At the same time, we are protecting our business activities by properly protecting and utilizing the results of our efforts as intellectual property, accurately understanding and thoroughly respecting the intellectual property rights of other companies, and fulfilling our social mission of "Never Stop Logistics" while simultaneously creating the value.

Organization

We have established an IP Committee as a forum for seeking advice on application review and compensation for inventions made at work. As of May 2024, the Senior Executive Officer and Head of the Technology Division, who chairs the Intellectual Property Committee, is responsible for our group's IP.

Strategy and Risk Management

Obtaining Intellectual Property Rights

We continue to help resolve issues faced at the work-site by leveraging the information and knowledge gained from the daily operation of its ships. With the motto "No SOLUTION without MEASUREMENT," we have been practically collecting and accumulating ship data from actual sea areas, analyzing the data, and developing solutions for many years in cooperation with our group companies such as MTI Co., Ltd., in order to make invisible visible, and protecting the results with intellectual property.

• Examples of Areas of Focus

> (1) Preventing accidents and malfunctions by monitoring ships from land

Based on big data including ship position, speed, engine operating conditions (temperature, pressure, flow rate, etc.), acceleration by motion sensors, wind direction, wind force, wave height, and other meteorological and oceanographic information, the Ship Information Management System (SIMS), a ship performance monitoring system introduced in 2008, enables analysis and diagnosis that leads to early detection of signs of malfunctions and serious accidents such as breakdowns on operating ships.

> (2) Research on Autonomous Ship Technology

We have more than 30 years of extensive data on evasive maneuvering by captains and officers, accumulated using in-house full-mission maneuvering simulators. This data is used in the development of evasive maneuvering algorithms. In 2023, the "Autonomous Vessel" initiative by NYK and three NYK Group companies (MTI Corporation, Nippon Marine Science Inc. and Kinkai Yusen Kaisha, Ltd.) received the "5th Japan Open Innovation Award,

Minister of Land, Infrastructure, Transport and Tourism Award" sponsored by the Cabinet Office.

• Received the "Data Management Grand Prize Award"

Our company was awarded the grand prize at the Data Management 2024 held by the Japan Data Management Consortium (JDMC) in recognition of our efforts to improve and utilize the data lake * in the three areas. i.e. Ship operation management, deepening of the marine transportation business, and group business management. This award is presented to companies and institutions that have made noteworthy efforts and achievements and are recognized as a model for others in the future.

*Data Lake: A data management system for the utilization and analysis of data. Suitable for collecting and storing large amounts of data because the data can be stored in any format or size

Intellectual Property Evaluation and Reward System

We have established regulations for handling employee inventions with the objective of encouraging our employees to make inventions, to guarantee their rights as inventors, and to ensure the rational management and utilization of patent rights acquired through inventions.

Others

Intellectual Property

Governance

Organization

Strategy and Risk Management

Obtaining Intellectual Property Rights
Intellectual Property Evaluation and Reward System

- Protection of the intellectual property rights of the NYK Group
- Understanding and Respecting the Intellectual Property Rights of Others
- Utilization and Contribution of Intellectual Property

Initiatives

- Representative Examples of Patents

Relevant Data

Intellectual Property

Protection of the intellectual property rights of the NYK Group

We apply for and manage the patents and other industrial property rights with the aim of identifying intellectual property through originality and ingenuity, differentiating itself from other companies with this intellectual property, and contributing to the business. We also protect ideas that can be intellectual property and other assets such as ship data.

Understanding and Respecting the Intellectual Property Rights of Others

Our group clearly states in "NYK Code of Conduct" and "CSR Guidelines for Business Partners" that it will not infringe on the intellectual property rights of others, and implements this policy throughout its value chain. We respect the intellectual property rights of others, as much as our own intellectual capital rights. We work to reduce the risk of infringement of rights held by others by conducting surveys to avoid industrial property infringement, responding to internal consultations regarding intellectual property contractual clauses, and holding regular intellectual property training sessions.

Utilization and Contribution of Intellectual Property

Appropriate use of our group's intellectual property will not only increase our group's corporate value through monetization, but may also contribute to solving industrial and social issues.

Contributing to the Revitalization of the Maritime Industry through the Use of Technology and Patents

In April 2023, we established the "Shipbuilding Business Group" within the Technology Division. We, either independently or in combination, provide solutions to the technical needs of ship owners, ship management companies, etc., through the technologies and know-how accumulated by our Group in its engineering and marine affairs divisions and engineering group companies, strive to solve various problems of the maritime cluster and contribute to the realization of safe and sustainable maritime transportation.

Initiatives

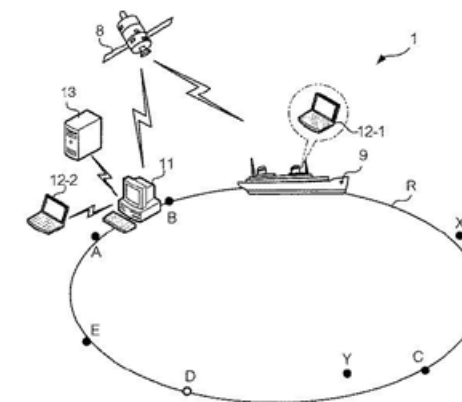
We are developing cutting-edge technologies related to safe navigation and environmental protection, such as IBIS Project, which utilizes big data for optimal economic navigation, and the MT-FAST (hull additive), an energy-saving device that greatly improves fuel efficiency.

Representative Examples of Patents

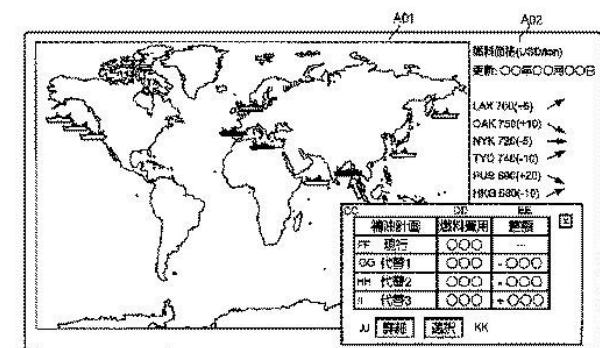
IBIS Project-related Patent (Patent No. 5591429)

This invention provides a mechanism for presenting an oil replenishment plan (oil refueling port and oil refueling amount in the oil refueling port) for reducing fuel cost during ship voyages. For example, if a change in fuel prices at a particular port leads to a refueling plan that will allow a ship in transit to save fuel cost compared to the current refueling plan, the ship's operator and other users will be notified of the same. As a result, users can easily find out the desired refueling plan.

Overall structure of the refueling plan support system



Screen image of the refueling plan support system



- AA Fuel price
- BB Updated: year/month/day
- CC Bunkering plan
- DD Fuel cost
- EE Differential
- FF Current
- GG First alternative
- HH Second alternative
- II Third alternative
- JJ Details
- KK Select

Others

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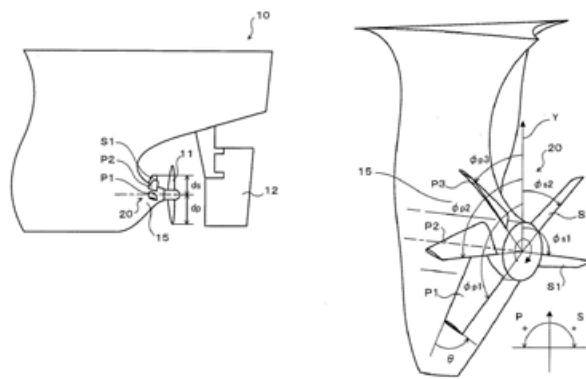
Intellectual Property

● MT-FAST Patent (Patent No. 5002378)

This invention relates to a marine propulsion efficiency improvement device and its installation method.

Ships use engine power to rotate propellers and push seawater backward, converting it into a force that propels the ship in the direction of travel. However, when the rotational force is converted into propulsion force, a vortex called swirling flow is generated, which lowers propulsion efficiency. This invention is a hull appendage "MT-FAST" consisting of several twisted shaped fins. It is attached to the front of the propeller to regulate the water flow flowing into the propeller and to reduce the swirling flow generated behind the propeller. As a result, the propeller propulsion power gets improved, and approximately 4% fuel saving becomes possible.

■ Outline of a ship equipped with a marine propulsion efficiency improvement device

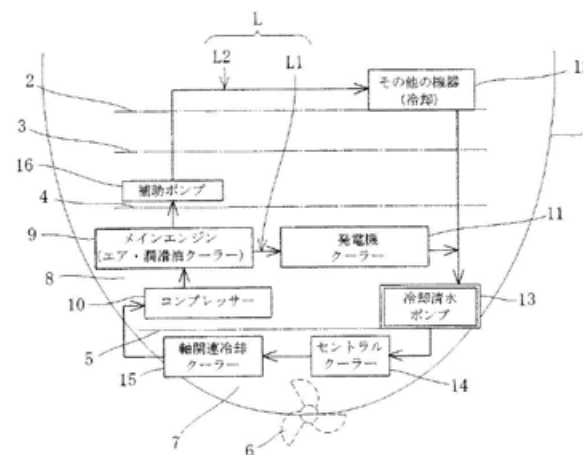


● Reduction of Energy Consumption of Auxiliary Equipment (Patent No. 5474574)

This invention relates to a fresh water cooling system for ships.

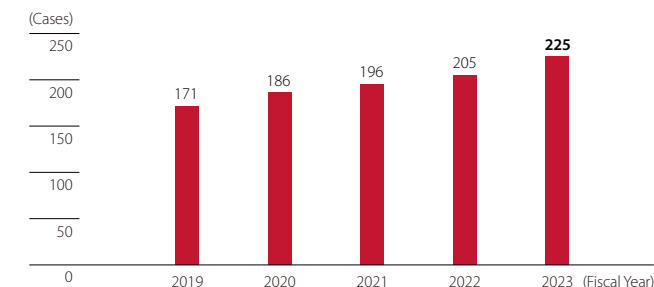
In large ships, the height of the equipment in the upper accommodation area of the ship from the cooling fresh water pump is about 25 m or even higher. As a fresh cooling water pump, a high-capacity, high-lift pump with a large discharge pressure is required, but the challenge is that a large amount of power is consumed to drive the pump. This system divides the cooling system into upper and lower sections. By using an auxiliary pump to supply fresh water to the upper system, the required lift of the cooling fresh water pump can be lowered, and the power consumption for driving the pump can be reduced.

■ Schematic diagram of the fresh water cooling system



Relevant Data

■ Number of Patents



(Note) Numbers of patents indicate the number of cases at the end of each fiscal year

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

Strategies and Risk Management

NYK Group's Basic Stance on Human Rights

Governed by business management centered around ESG, and under the theme of "giving back to the oceans, earth, and people," the NYK Group is committed to social and environmental issues. Aiming to enhance our corporate value for all of our stakeholders through these activities, the Group launched the "NYK Sustainability Initiatives (NYKSI)." We have been conducting these activities since 2021.

● Activity Policy

1. Realizing a sustainable future society

By utilizing the various resources of the NYK Group, we carry out activities that contribute to the realization of a better future for society. Our main objectives include preserving the environment, supporting developing countries, realizing an inclusive society, and fostering future generations, among others. As a group that carries out corporate activities globally in the field of the natural environment, we proactively encourage and support the efforts of our Group employees to solve social and environmental issues, leading to the creation of innovation and the seeds of commercialization.

2. Raising NYK Group employee awareness of solving social issues

Participating in activities addressing the NYK Group Sustainability Initiatives, we incorporate different values and perspectives to nurture a corporate DNA that includes the NYK Group Values of integrity, innovation, and intensity, or the 3I's, and aim to raise awareness of solving social issues.

3. Increasing engagement through connection with society

Through connection with various stakeholders during activities addressing the NYK Group Sustainability Initiatives, we aim to become a Group that can dream and work with pride by gaining awareness of how we can continue to be of service to society.

● "NYK Group Sustainability Initiatives" Logo

The turquoise color of the NYK Group Sustainability logo, a mixture of blue and green, is consistent with the group's theme of "giving back to the oceans, earth, and people." We nurture the seeds of new business to solve social issues, and this is expressed by buds growing from the earth.



Systems and Programs

A variety of systems and programs have been introduced to encourage NYK Group staff members to take on the challenge of solving social issues through activities based on the NYK Group Sustainability Initiatives.

● NYK Introduces "YUSEN" Volunteer Point System

Points are granted for each form of contribution made by employees, and NYK then tallies the points granted during the year, converts them to a monetary amount, and makes donations in that amount to charities. We implemented the point system in June 2014 as a mechanism to support the volunteer activities of our employees.

In 2023, 694 people from 36 companies participated and registered 955,270 points (89.7% increase compared to the previous year). In response to this significant support, in April 2024, the Company donated a total of 1,910,540 yen to two organizations engaged in support activities in the fields of environmental preservation and support for developing countries.

● Matching Gift Program

The matching gift program is a program under which NYK provides an additional contribution proportional to the contributions made by employees to an NPO or similar organization.

● "NYK Group Sustainability Initiatives" Web Portal

The "NYK Group Sustainability Initiatives" program has been established on the Company's intranet. Through these initiatives, we introduce collaborative activities with external partners that are being carried out within the Company, as well as initiatives aimed at resolving social issues that have been proposed and implemented by our Group employees. We also conduct projects that could lead to the creation of new business opportunities, aiming to promote and invigorate activities that contribute to solving social issues.

Others

The Challenge to Solve Social Issues

Strategies and Risk Management

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

Initiatives

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Related Data

The Challenge to Solve Social Issues

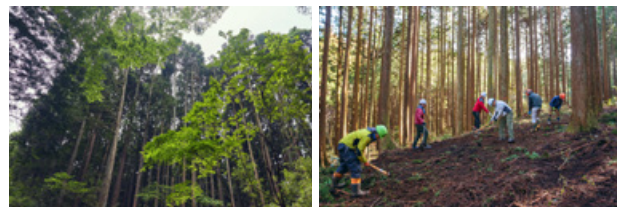
Initiatives

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).

Others

The Challenge to Solve Social Issues

Strategies and Risk Management

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

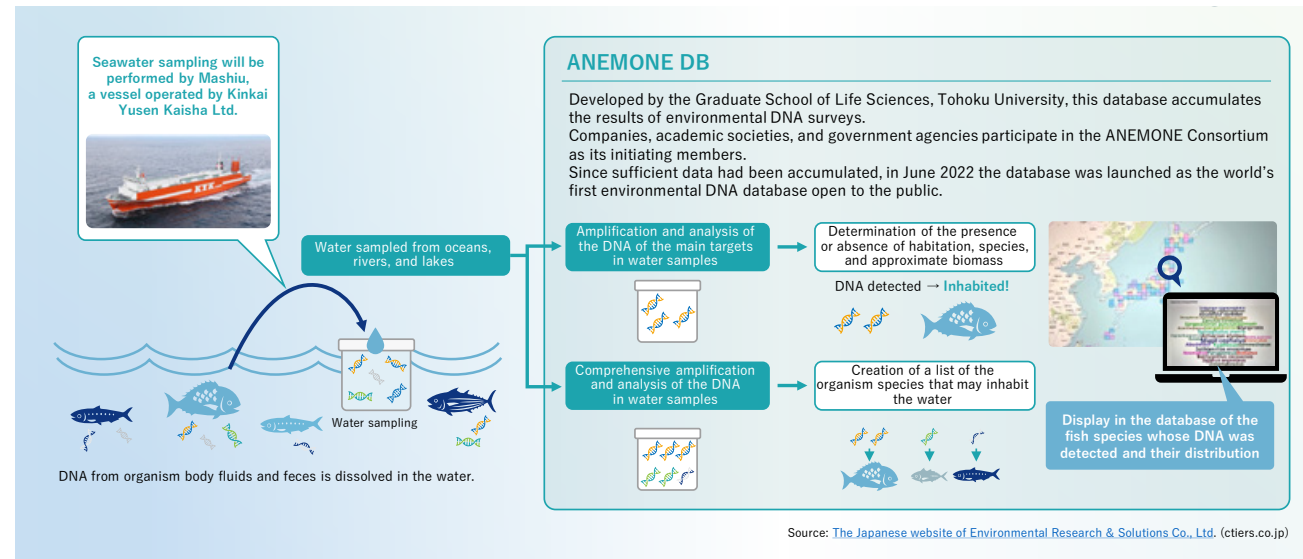
Initiatives

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Related Data

The Challenge to Solve Social Issues

Overview of ANEMONE Consortium

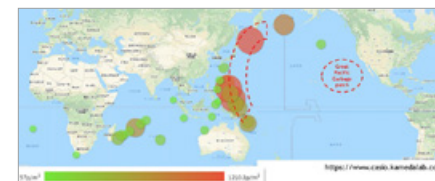


Contribution to the Analysis of Marine Plastics Pollution

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

Others

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• Transport Assistance for Reconditioned Bicycles

Our Company supports ChildFund Japan, a specified non-profit organization that aims to promote the growth of children living in poverty, primarily in Asia, as well as the self-reliance of their families and communities. In December 2023, we provided transportation support for transporting reconditioned bicycles to Sri Lanka as part of the Transport Assistance for Reconditioned Bicycles Project.

Currently, fuel shortages are worsening in Sri Lanka. This shortage resulted in a significant reduction in the operation of public transportation, and bicycles are getting a lot of attention as an alternative mode of transport. ChildFund Japan is therefore coordinating with local government to deliver bicycles that were abandoned in Japan to Sri Lanka.



Reconditioned Bicycles Support Project

• Transport Assistance for Wheelchairs

NYK has supported the activities of the Sakura Wheelchair Project (a specified nonprofit organization) and Wheelchairs of Hope (NPO) by transporting wheelchairs that are no longer in use in Japan to Ukraine and Pakistan.



the Sakura Wheelchair Project

• Charity Collaboration Project - Charity RUN + WALK+α

Since 2017, we have been conducting the "Charity RUN + WALK+α" event to promote the health of our Group employees through familiar sports such as running and walking, as well as to raise awareness of social issues. Donations made by employees based on their participation fees and the amount of exercise they perform are donated to Médecins Sans Frontières to contribute to improving the health of people who have no access to medical services due to conflict or disaster.

In recognition of these efforts, in 2018, NYK was certified as a "Tokyo Sports Promotion Company" by the Tokyo Metropolitan Government.



• Charity Collaboration Project - Donation of Winter Clothing

We support the winter clothing donation activity conducted by the Philippine Society of Japan (a non-profit organization) for Filipino nurse and care worker candidates coming to Japan under the Japan-Philippines Economic Partnership Agreement (EPA), and donate winter clothing collected within the company every year.

• Charity Collaboration Project - TABLE FOR TWO International (TFT) Lunch Menu

In April 2009, we started to support NPO TABLE FOR TWO International (TFT) by selling TFT healthy lunch boxes at our cafeteria. We donated an amount based on the number of lunch boxes sold to the organization. Subsequently, from October 2013 onwards, we are offering the TFT healthy menu once a week at our cafeteria. For each purchased TFT lunch menu, 20 yen is donated to TFT for one school meal for children in developing countries.



• Selling Fairtrade Products

NYK switched the coffee served inside its head office coffee shop in April 2016 to Fairtrade products. Fair trade is a trade mechanism that aims to improve the lives and independence of producers and workers in developing countries, who may find themselves in a disadvantageous position, by agreeing to continuously purchase the materials and products of developing countries at appropriate prices. As part of the company's social contribution activities and rising employee awareness of global social issues, NYK has been making Fairtrade products such as coffee, tea, and chocolates available for sale to employees. In FY2023, approximately 68,000 cups of Fairtrade certified coffee and tea drinks were sold.



Certification Label

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Realizing an Inclusive Society

Our Group aims to realize a society where all people can live comfortably.

• Aozora Soccer School

Since 2022, in collaboration with Tokyo Football Club Co., Ltd. (FC Tokyo), we have been hosting the Aozora Soccer School for children with intellectual and developmental disabilities at our Tobitakyu Sports Center.



Aozora Soccer School

• Yusen's Storytelling Volunteers Bring Moments of Joy to the Community

A group of NYK Group volunteers called "Yusen Yomikikasetai" have visited a nursing home in Yokohama twice a year since 2005. The volunteers perform picture-card shows, dances, musical instruments, and sing-alongs with the residents at a nursing home. During the visits, the residents gradually start to sing along, clap their hands, and enjoy themselves, bringing smiles to all those involved.



Yusen's Storytelling Volunteers

• Making Envelopes from Vintage Nautical Charts

Since April 2019, NYK Group volunteers have used their lunch breaks to make envelopes from nautical charts that are no longer in use. These envelopes are then donated to the Japan Braille Library and used in its shop to package items destined to recipients living with a visual impairment. This program was initiated by Mitsubishi Ore Transport Co. Ltd., which introduced the know-how of how to make these envelopes in 2015.



Making Envelopes from Vintage Nautical Charts

Making envelopes

• Support for Swan Bakery

Swan Bakery was primarily established by the Yamato Welfare Foundation and Yamato Transport Co. Ltd. (currently, Yamato Holdings Co., Ltd.) for the purpose of fostering a society in which all people, including people with disabilities, can live and work in harmony. Swan opened its first shop in Ginza, Tokyo, in 1998, and

the company has established bakeries and franchises nationwide. In 2005, NYK began supporting the activities of the Swan Bakery through internal sales.



• Sales of Castanet Bakery Goods

Castanet is a workplace operated by the social welfare corporation Hanamizuki No Kai, which allows its employees to work actively and to the best of their abilities. Since 2011, NYK has supported these activities by selling sweets made with select ingredients at the company shop.

Fostering Future Generations

Our Group utilizes its resources to foster future generations who will lead the future.

• International Short-term Student-exchange Program

We conduct an international short-term student-exchange program between the NYK-TDG Maritime Academy (NTMA), which NYK operates in the Philippines, and national maritime schools in Japan.

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● Seasonal Theater - Kokoro no Gekijo

To convey the important things in life, such as the importance of life, compassion, and the joy of trusting one another to our children through the stage, we have become a sponsor for the 2024 edition of "Kokoro no Gekijo," a project run by Shiki Theatre Company that invites sixth graders across the country to attend family musical performances free of charge.

● The New Colombo Plan (NCP) - Accepting Australian Interns

Our company has participated in the New Colombo Plan Mitsubishi Group Internship Program. The New Colombo Plan* is a next-generation development assistance program sponsored by the Australian federal government (Department of Foreign Affairs and Trade). We accepted Australian university students studying in Japan as interns under this program. The interns were given a tour of the port of Yokohama (Daikoku) Car Terminal and a ship-handling simulator experience at Japan Marine Science Inc. (JMS). They also learned about the business activities of the NYK Group through an introduction to our ESG management and a game in which they had to create a voyage schedule as a ship operator.

The Group will continue to create opportunities for active exchange with Australia to promote development of international human resources, and understanding of diverse cultures, and to strengthen partnerships between Japan and Australia.

* A scholarship program that supports study abroad, language training, and internships for Australian students in the Indo-Pacific region. The goal of the program is to enrich the students' lives by creating opportunities for them to experience the diverse cultures, languages, businesses, and education systems of neighboring countries.



Students manning the ship simulator at JMS



Visit to NYK Headquarters

● Unko Drill: Marine Logistics

In July 2022, NYK and Bunkyo-sha jointly produced "Unko Drill: Marine Logistics," a study reference book that provides elementary school students an enjoyable way to learn about shipping and the work of seafarers. Approximately 150,000 copies of the book have been donated to around 1,400 public elementary schools throughout Japan. The "Unko Drill" series are learning reference books for students ranging from young children to high school age youth. The books are known for their use of the keyword "Unko" (poop), which gives learning a humorous touch. Over 10 million copies of the series have been published.



Unko Drill: Marine Logistics

Community Investment

As an organization that conducts business activities globally, the Group aims to be of benefit to tomorrow by fulfilling various tasks and expectations of regional communities around the world. We contribute to and invest in seafarer education to develop the maritime industry, and we also carry out activities tailored to the needs of the community to help the next generation (*Mirai*), regardless of nationality, understand the close connection between the shipping industry and society.

● Awarding Scholarships to Two Chinese Maritime Universities

NYK awarded scholarships to a total of 82 student attending Dalian Maritime University and Shanghai Maritime University in the People's Republic of China. Implemented annually since FY2001, the scholarship program has been carried out 23 times, awarding scholarships to 1,529 students. NYK will also continue to support the education of seafarers in order to contribute to society as a good corporate citizen.

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Disaster Relief

The Group utilizes its resources, in addition to donations and the support of local activities by NYK Group employees, to aid disaster relief activities.

● Great East Japan Earthquake Relief Efforts

In addition to dispatches of employee volunteers that have been ongoing since 2011, the NYK Group started to send new hires from 2014, and from 2018 employee family members have also been welcomed as volunteers. To be of assistance, the group engages in activities such as interacting with local people working the area's fields and making efforts for reconstruction.

> 2011 – 2012 (Recovery period)

A total of 300 volunteers engaging in about 1,000 days of dispatch activities under the guidance of the Rikuzentakata City Disaster Volunteer Center.

> 2013 – 2019 (Reconstruction Period)

A total of 224 volunteers participated in canola-flower-field maintenance, firewood chopping, and community building in Rikuzentakata, Otsuchi, and Kamaishi.

● Supporting Canola-Flower-Field Reconstruction Project

In August 2015, the Company concluded a contract for ownership of a canola flower field along the Sanriku shoreline with United Green. United Green is a general incorporated association that has implemented a recovery project involving canola flower fields in Kamaishi City in Iwate Prefecture. This project aims to plant canola flowers in and around farmland damaged by salt from the tsunami and abandoned fields to improve the landscape of the area, and produce cooking oil from harvested canola flowers, cultivating

a local product. In the canola flower field that NYK owns, our employees reap, sow, and provide other assistance as volunteers. The harvested canola oil is sold at the Company for charity, and the proceeds are donated to the Tohoku Support Project.



Umi to Mori no Natane Oil



NYK-owned canola flower field

● NYK Group - JPF Joint Aid Supplies Transportation Projects

The Company has implemented the NYK Group-JPF Joint Aid Supplies Transportation Project in cooperation with Japan Platform (JPF), an international humanitarian assistance organization.

The initial inspiration for the launch of this project first came when the NYK Group and JPF jointly provided emergency relief to victims of the immense earthquake that occurred off the northern tip of Sumatra, Indonesia, and the tremendous damage in Southeast and South Asia that resulted from the subsequent tsunami on December 26, 2004.

In this project, first, the nongovernmental organizations (NGO) that participate in the JPF program and the JPF members conduct intensive preliminary assessments to determine what aid supplies are required by victims. Based on the assessment, NYK transports emergency aid commodities free of charge on its container ships to a port near the disaster site. Next, JPF/NGO members deliver emergency supplies to those in need.



Rice allowances for those in need after the earthquake in Pakistan



Free transportation to the victims of Myanmar cyclone

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Related Data

Support Supplies Shipped over the Past 11 Years

	Unit	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Bicycles	Qty	2,250	1,800	900	900	800	800	450	450	450	410	–	9,210
School Backpacks	Pieces	19,068	18,704	15,780	16,725	12,965	21,058	18,084	9,567	10,308	14,784	12,606	169,649
Picture Books	Copies	14,706	13,632	15,306	17,222	17,547	17,990	17,588	16,221	15,179	18,023	18,102	181,516

Note: Bicycle donation activity completed in FY2022.