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Nyk Report 2018 Data book



Summary of CSR Activities in Fiscal 2017 and Outline of Next Year's Targets 1

For fiscal 2017, we have summarized our CSR activities in accordance with the Group's materiality — i.e., safety, the environment, and human resources — in addition to governance.

	Initiatives	Fiscal 2017 targets	Achievement/progress of fiscal 2017	Achievement rate	Fiscal 2018 targets
Safety	Reduction of fleet accidents (Ensuring safety)	1) Eliminate major accidents 2) Reduce fleet downtime (10 hours / year / vessel) 3) Conduct emergency preparedness and response	 1-1) Conduct NAV9000 audits (shipmanagement companies and ships) → Audited 287 vessels / 30 companies, 956 corrective action requests 1-2) Reviewed the NAV9000 quality standard for safe operation and support to ensure compliance with ISO9001:2015 (completed in August) 1-3) Near Miss 3000 activities (increased companies to be covered) → 44 target companies and 71,160 reports 1-4) Hold various safety promotion meetings and safety seminars → Held SEMC*1 (May), fleet safety promotion meetings (twice in July), a Global SEMC*1 meeting (August), and meetings among the president, captains, and chief engineers (in August and November and March 2018) 1-5) Distribute safety information → total of 49 documents 1-6) Conduct safety campaigns → visited 475 vessels / 856 participants 1-7) Developed method for preventing engine plant accidents by utilizing big data → Shared with relevant parties and conducted external forums (Sea Japan, Japan Bari-Ship, etc.) 2) Continue activities to minimize fleet downtime → (overall) 23.9 hours/vessel (of this 3.5 hours/vessel for engine trouble) 3-1) Conduct media response drill and reviews → conducted drill (December) and employee e-learning (November) 	ሲ	1) Eliminate major accidents 2) Reduce fleet downtime (10 hours / year / vessel) 3) Conduct emergency preparedness and response
	Safety activities with vessel owners and customers	1) Visit vessel owners and conduct seminars for vessel owners 2) Conduct LNG conferences 3) Formulate safety guidelines with customers, shipping companies, and classification societies	1) Called for cooperation in blackout recovery tests for chartered vessels, held safety seminars, and shared information and exchanged opinions with vessel owners 2) Shared information with relevant outside parties, such as terminals, shipmanagement companies, customers, etc. (June, 14 participants) 3) Formulated safety guidelines for areas not covered by IMO, etc. together with maritime industry members such as customers, shipping companies, and classification societies (participated in committee twice a year)	ŶŶ	Visit vessel owners and conduct seminars for vessel owners Conduct LNG conferences Formulate safety guidelines with customers, shipping companies, and classification societies
	Prevention of accidents, investigation of causes, and gathering information	1) Review safety standards at our terminals operating in Japan (across all terminals through a safety committee system) 2) Raise the on-site capabilities by cross-patrols conducted between terminals in Japan	1) Inaugurated a working group comprising the Harbor Group, three terminals operated by NYK, and Asahi Unyu Kaisha Ltd. (prime contractor at Nagoya Port) to review safety standards and create a system to ensure operational safety 2) Conducted mutual safety patrols among terminals in Japan from January 2018 (i.e., patrols at each terminal patrolled other terminals)	የ ተቶች	1) Adopt and implement an internal audit system. Evaluate whether work is conducted according to safety standards (all terminals scheduled to be audited by 2020) 2) Continue to raise on-site capabilities through mutual safety crosspatrols conducted among terminals in Japan
	Ensuring thorough safety management at shipyards and ship equipment manufacturers	Ensure safety management based on safety standards at each company	 Reviewed safety standards at meetings held by a supervisory office (five locations) Conducted monthly safety patrols with shipyards and shared results in monthly reports Requested investigation of cause and formulation of measures for preventing reoccurrence when an accident occurs 		Ensure thorough safety management based on safety standards at each company
	Preparation for disasters	1) Update the groupwide business continuity plan (BCP) 2) Conduct disaster drill and BCP training to raise the effectiveness of disaster-prevention plans and business continuity plans	Revised BCP documents in June (established disaster reporting system at our major facilities located in areas other than Southern Tokyo and made a list of important facilities, etc.) 2) Conducted disaster drill (twice) and BCP training (three times) Conducted emergency contact training utilizing IT tools for all employees	፟ ቝ፞ቝ፞	1) Update the groupwide business continuity plan (BCP) 2) Implement BCP training and disaster-preparedness drill to increase the effectiveness of disaster prevention plans and business continuity plans
The Environment	Promotion of environmental activities	1) Maintain and expand the Group multisite environmental certification 2) Continually improve EMS*2 manual 3) Acquire ISO 14001:2015 certification 4) Share information throughout the Group and with concerned parties	1) Maintain appropriate activities for each region and business sector and expand certification according to customer requirements → 55 companies and 146 sites 2) Formulate 2015 version of EMS manual → formulated on May 31, partially revised on January 25, 2018 3) Lead preparations for examining migration of overseas / domestic multisite → Conducted internal audit of related sites (October to November), external audit of related sites (December to March 2018), and prepared for final migration review on May 18, 2018 4-1) Held Safety & Environmental Management Committee (SEMC*¹) meeting (May) 4-2) Held the Group Environmental Management Conference (November)		1) Maintain the Group multisite environmental certification and enhance governance at sites 2) Continually improve EMS ¹² manual 3) Transition to ISO14001:2015 4) Hold Safety & Environmental Management Committee meeting 5) Hold the Group Environmental Management Conference
	Formulation of and adherence to shipping industry and the Company standards	Contribute to formulation of international rules for realization of sustainable societies through industry-wide effort	Actively contribute to formulation of international rules → participated in boards (industry group boards and IMO MEPC)		Contribute to formulation of international rules for realization of sustainable societies through industrywide effort
	Prevention of global warming	1) Set CO ₂ emission reduction rates using environmental management indices (EMIs) "Establish environmental management benchmark: Improve fuel efficiency by 15% from fiscal 2010 levels by fiscal 2018" 2) Determine total CO ₂ emissions for the Group) Implement fuel-saving initiatives and collect data for calculating environmental management indices (improvement rate, target number of vessels, and main engine average load rate) from vessels → Target number of vessels: 487; improvement rate of 14.3% compared to fiscal 2010 (including overseas group companies); main engine average load rate: 49.2%) Use environmental performance data tabulation system (Eco Track) → 244 offices in Japan (47 companies) and 149 offices overseas		1) Establish environmental management benchmark (CO ₂ emission reduction rate): Improve fuel efficiency by 30% from fiscal 2015 levels by fiscal 2030 2) Determine total CO ₂ emissions for the Group
	Prevention of air pollution	Reduce NOx and SOx emissions	 Cooperate with California Speed Reduction Program → compliance rate at Long Beach: 98% (40 miles) Use shoreside power supply for moored vessels (increased vessels supporting AMP container units) → 41 vessels with AMP container units Fit NOx/SOx emission reduction devices -> adopted water emulsion devices for four newly constructed vessels 	ŮŮ	Reduce NOx and SOx emissions
	Marine environment conservation Adoption of environmentally-friendly technologies, etc.	1) Advance installation of ballast water management systems 2) Scrap ships in an environment-friendly manner 3) Advance installation of our Total Bilge System	1) Expand installation → increased by 11 vessels for a total of 82 vessels 2) Adhere to 'NYK Standards' on ship recycling → 0 vessels decommissioned 3) Actively install on new ships → complied with standards for all vessels (six)	፟ ቝ፞፞፞ቝ፟	1) Advance installation of ballast water management systems 2) Scrap ships in an environment-friendly manner 3) Advance installation of our Total Bilge System
	Efforts for saving resources, saving energy, reducing waste, and recycling, etc.	Reduce usage of paper, water, and electricity at headquarters office by 0.1% relative to fiscal 2012-2014	Perform periodic measurements and internal information-sharing to ensure thorough office energy savings → Average rate from fiscal 2012 to 2014 was -20.9% for paper, +1.8% for water, and +2.3% for electricity	ኒ ቲ	Reduce the water/paper consumption at the headquarters office and CO_2 (electricity/steam) emissions by 0.5% compared to fiscal 2017

^{*1} SEMC: Safety & Environmental Management Committee
*2 EMS: Environmental Management System

[Self-evaluation standard] Achieved: 🐧 🐧 🐧 Almost Achieved: 🐧 🐧 Partially Achieved: 🐧

NIPPON YUSEN KABUSHIKI KAISHA NYK Report 2018 NIPPON YUSEN KABUSHIKI KAISHA NYK Report 2018

Summary of CSR Activities in Fiscal 2017 and Outline of Next Year's Targets 2

	Initiatives	Fiscal 2017 targets	Achievement/progress of fiscal 2017	Achievement rat	e Fiscal 2018 targets
The Environment	Stimulation of interest in environmental conservation activities	1) Conduct environmental training 2) Conduct environmental e-learning programs 3) Share information with group employees	1) Conduct environmental training and workshops → conducted training for new employees and CSR training 2) Create environmental e-learning content and improve the number of participants (participation rate) → participation rate of 96.6% between November and January 2018 3) Report environmental articles in internal newsletter and conduct environmental conservation campaigns → continued to post environmental articles and held environmental sensyu competition in Japan, in addition to photo contests (June to September)	፟ ፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟	1) Conduct environmental training 2) Conduct environmental e-learning programs 3) Conduct in-house environmental publicity activities
	Disclosure of environmental information	1) Issue NYK Report 2) Respond to external survey on the environment 3) Provide up-to-date environmental information through website 4) Disclose CO ₂ emissions information	1) Review, update, and release content → Japanese version released in July and English version released in August 2) Actively participate in external surveys and present the environmental activities of the Group → 24 surveys 3) Review and update the included items → updated twice (August and January 2018) 4) Update the data for the CO ₂ e-calculator, participate in the CCWG ⁻¹ of the U.S. NPO BSR, perform data evaluations for scopes 1, 2, and 3, and obtained data assurance for scopes 1, 2, and 3	የ ተ	1) Issue NYK Report 2) Respond to external survey on the environment 3) Provide up-to-date environmental information through website 4) Disclose CO ₂ emissions information
Human Resources	Workstyle reforms	1) Establish an environment and cultivate a workplace atmosphere that enable diverse human resources to play an active role 2) Reduce working hours and promote a work-life balance by fostering awareness of improving efficiency and productivity 3) Promote measures to improve employee health	1) Conducted Ikuboss seminars for managers, Ikuboss seminars for directors from 2017, mother/father seminars, interviews before maternity leave and before and after returning to work, and assisted employees with time limitations on how and when they can work 2) Expanded work-at-home trials to managers, implemented go-home-early days for parents and children, proposed defining a premium day for going home early, changed the rules for taking summer and winter vacation, reviewed work styles by changing core work times, etc., and raised employee awareness on improved labor productivity 3) Certified as a White 500 company for excellent health and productivity management two years in a row Arranged for trainers to provide personal advice, held a charity run around Tokyo's Imperial Palace, and ensured thorough implementation of health checks	፟ ኍ፟፟ኍ፟ኍ፞	1) Establish an environment and cultivate a workplace atmosphere that enable diverse human resources to play an active role 2) Reduce working hours and promote a work-life balance, establish an environment and improve efficiency and productivity via workstyle reforms and IT utilization, etc. 3) Promote measures to improve employee health
	Human resources development in Japan and overseas	Implement a variety of training and human resources exchange programs in Japan and overseas based on the HR philosophy 2 to enable the group employees to fully utilize their abilities in a broad range of business areas	Implemented NYK Business College training for enhancing the total ability of group employees (more than 60 courses) Started operation of the Expert 2017 seafarer cultivation scheme Implemented Global NYK/YLK Week 2017 (October)	ት ትት	Implement a variety of training and human resources exchange programs in Japan and overseas based on the HR philosophy*2 to enable Group employees to fully utilize their abilities in a broad range of business areas
	Seafarer training	1) Conduct review of NYK Maritime College (NMC) 2) Educate seafarers and transfer knowledge in LNG projects	1) Conducted NMC reviews to improve vessel safety and the quality of training according to various needs. Further enhanced the knowledge and navigation skills of group seafarers through education and training at NMC 2) Steadily promoted education of Angolan and Nigerian seafarers through basic education at educational facilities and practical onboard experience to teach everything from the basics of vessel navigation to the operation of LNG vessels	& &	1) Effectively and efficiently implement NMC Continue to conduct training with relevant parties and review the content of training to make NMC more effective 2) Educate seafarers and transfer knowledge of LNG projects
Governance	Human rights due diligence, Human rights awareness	Recognizing human rights issues as risks: 1) Identify the current degree of risk and latent risks, etc. Work to recognize human rights issues involving the company's business environment 2) Build company awareness on human rights issues (training, publicity, dealing with harassment, and enhancing measures for early detection)	1) Participated in the Stakeholder Engagement Program held by CRT Japan to identify major human rights issues in each industry, check our efforts for handling the identified issues, and published these on our website 2) Conducted human rights awareness building during our new employee training and new manager training, shared information during Human Rights Week on the theme of business and human rights and eliminating harassment, and distributed to all new employees "human rights passports" that summarize the Universal Declaration of Human Rights 1) Participated in the Stakeholder Engagement Program held by CRT Japan to identify major human rights issues in each industry, check our efforts for handling the identified issues, and published these on our website 2) Conducted human rights awareness building during our new employee training and new manager training, shared information during Human Rights Week on the theme of business and human rights and eliminating harassment, and distributed to all new employees "human rights passports" that summarize the Universal Declaration of Human Rights 1) Participated in the Stakeholder Engagement Program held by CRT Japan to identify major human rights issues in each industry, check our efforts for a summarize the Universal Program held by CRT Japan to identify major human rights issues in each industry, check our efforts for a summarize the Universal Program held by CRT Japan to identify major human rights issues in each industry, check our efforts for a summarize the Universal Program held by CRT Japan to identify major human rights issues in each industry, check our efforts for a summarize the Universal Program held by CRT Japan to identify major human rights issues in each industry, check our efforts for a summarize the Universal Program held by CRT Japan to identify major human rights issues in each industry, check our efforts for a summarize the universal program held by CRT Japan to identify major human rights issues in each industry. 1) Participated in the E	ት ትት	1) Human rights due diligence / impact assessment Understand, identify, and check NYK efforts regarding human rights issues via the Global Compact Promotion Committee, in addition to HR surveys and e-learning (CSR) for all Group companies 2) Human rights awareness Conduct human rights training and publicity activities during Human Rights Week
	Comprehensive compliance inspections	1) Transmit CCO messages, then institute surveys and other measures (headquarters) 2) Conduct overall inspections (Japanese group companies)	1) Transmitted a message from the CCO stating that "Dialog and discussion lead to improved awareness of compliance and self-cleansing", conducted a survey on compliance awareness (1,871 respondents, 96% response rate), and administered an anonymous survey to identify employee opinions and concerns 2) Conducted overall inspections according to the business field and scope of each company (at 38 of 40 Japanese group companies)	፟ ፟ጜ፟ጜ፟ጜ	1) Transmit CCO messages, then institute surveys and other measures (headquarters) 2) Conduct overall inspections (Japanese group companies)
	Antitrust law risk assessment	1) Implement reviews and antitrust law risk assessments (yearly) 2) Hold meetings of the Executive Committee Overseeing Thorough Antitrust and Anti-bribery Law Compliance	1) Executed risk assessments and periodic inspections of target departments and group companies 2) Held meetings of the Executive Committee Overseeing Thorough Antitrust and Anti-bribery Law Compliance (September and March 2018)		1) Conduct surveys, interviews, risk evaluations, and periodic inspections after risk assessment regarding antitrust law compliance at group companies in Japan and overseas as well as the various departments at the headquarters 2) Hold meetings of the Executive Committee Overseeing Thorough Antitrust and Anti-bribery Law Compliance
	Information system security measures	1) Improve measures to counter viruses and hacking, etc., with the PDCA cycle and prevent internal information leaks 2) Improve the security awareness of group employees 3) Roll out ISMS-based security standards to group companies 4) Adopt new groupware	1) Continual implementation 2) Implement e-learning and suspicious e-mail training, and disseminate information through bulletin boards to increase awareness 3) Individually handling group companies 4) Adoption complete at major group companies. Continue activities for adoption at all 100% owned subsidiaries	÷÷	1) Improve measures to counter viruses and hacking, etc., with the PDCA cycle and prevent internal information leaks 2) Improve the security awareness of group employees 3) Roll out ISMS-based security standards to group companies 4) Adopt new groupware
	Dialogue with investors	1) Actively promote communication from the president and management, such as directors, at biannual small meetings with institutional investors and financial results briefings conducted four times a year, as well as the IR Division contacting investors 2) Visit people in charge of the exercise of voting rights at institutional investors to explain our governance system, etc., and engage in dialogue	1) Financial results briefings conducted four times a year: Total 651 participants (excluding our directors, corporate officers, and employees) Small meetings with the president (twice in May and December): Total 23 companies participated 2) Visit people in charge of the exercise of voting rights at institutional investors in Japan and overseas (total 17 companies and 48 participants)	 ፟፟ቝ፟ጜ፞ጜ፞፟	1) Actively promote communication from the president and management such as directors at biannual small meetings with institutional investors and financial results briefings conducted four times a year, as well as contacting investors via IR Division 2) Visit people in charge of the exercise of voting rights at institutional investors to explain our governance system, etc., and engage in dialogue
	Ensuring thorough SCM (fuel supplier evaluations)	Employees in charge evaluate all suppliers that we deal with and reflect the results in future purchasing activities (Evaluation items include quality, delivery, price, support for trouble, the provision of information, etc.)	Purchasing agreements are being made upon multifaceted evaluations of suppliers in terms of price, service, and performance at the time of agreement and updated every three or six months We will continue to consider new evaluation methods and reflect them in systematic purchasing activities		Employees in charge evaluate all suppliers that we deal with and reflect the results in future purchasing activities (Evaluation items include quality, delivery, price, support for trouble, the provision of information, etc.)

[Self-evaluation standard] Achieved: 🐧 🐧 Almost Achieved: 🐧 🐧 Partially Achieved: 墤

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^{*1} CCWG: Clean Cargo Working Group
*2 HR philosophy: Continually develop diverse talent at all group companies across global fields

Promotion of Group Environmental Management

The NYK Group's Environmental Management Vision and Three Strategies

(Formulated March 2005)

To contribute to the global environment and the creation of sustainable societies by managing environmental risks and arriving at an optimal balance between environment and economy

Strategy 1 Reducing greenhouse gas emissions

Strategy 2 Promoting social contribution through activities to conserve the global environment Strategy 3 Strengthening group environmental management

Scope of the NYK Group's Environmental Management System

- Worldwide transportation of goods by sea on a fleet of owned and chartered ships and feeder vessels, and on land by rail and truck and through the use of warehouse operations
- © Cruise ship business
- © Container terminal business
- Ship-management businessOffshore business

- Airfreight business Ocean & air forwarding and contract logistics business
- ® Other businesses associated with the NYK Group

The NYK Group's Environmental Green Policy

- ① We, the NYK Group, adopt responsible practices with due regard to the environmental impacts of our corporate activities. We set and continually review objectives and targets for achieving our goal to protect our entire global environment and biodiversity.
- ② We seek not only to comply with safety and environmental regulations but also to implement in-house standards to improve our environmental performance and prevent pollution.
- We commit ourselves to the safe operation of all our services via sea, land, and air, as well as operations at sea, terminals and warehouses
- We seek to reduce environmental loads by efficiently using resources, saving energy, reducing waste, encouraging material recycling, and particularly by minimizing emissions of greenhouse gases, ozone-depleting substances, and
- © We endeavor to minimize environmental loads and adopt environmentally friendly technologies when ordering and purchasing necessary resources, such as vessels and aircraft, for transportation services and cargo operations.
- © We endeavor to use education programs to raise environmental awareness among our employees and to ensure that they recognize the essence of this Green Policy by actively addressing environmental concerns.
- We make wide-ranging social contributions in close partnership with local communities by disclosing environmental information and supporting environmental conservation initiatives.

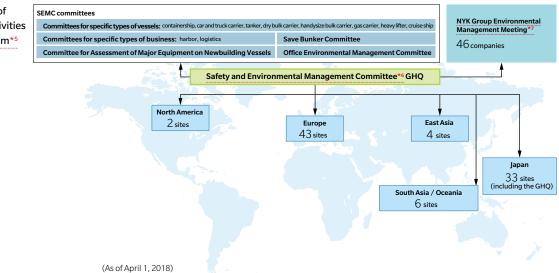
Constituted on September 1, 2001 Amended on April 1, 2017

Global Environmental Management System

Under the Group's common environmental policy, 88 operating sites around the world and approximately 750 vessels (including chartered vessels*1) have obtained ISO 14001 environmental certification*2. The aggregate revenue of the 37 companies that have obtained this certification account for roughly 80% of the Group's total sales, making the Group's unique global system for certification a powerful business driver. Several Group companies in Japan have also received Green Management certification*4.

- *1 Chartered vessels are ships leased from shipowners along with their fixtures and crew in a
- *2 ISO 14001 environmental certification is the collective term for the international standard for environmental management systems issued by the International Organization for Standardization
- 3 Group companies with Green Management certification were, as of June 1, 2018, Nippor Container Yuso Co. Ltd., Yusen Koun Co. Ltd., UNI-X Corporation, Asahi Unyu Kaisha Ltd., Kaiyo Kogyo Corporation, Yokohama Kyoritsu Warehouse Co. Ltd., Yusen Logitec Co. Ltd. (Narita Transport Section), and Hokuvo Kaiun Co. Ltd.
- *4 Green Management certification is awarded by the Foundation for Promoting Personal Mobility and Ecological Transportation to transportation operator companies that carry out initiatives above minimum standards set in its Green Management Promotion Manual, such as promoting ecologically conscious driving and using low-emission vehicles
- 5 Multisite system enables blanket certification for all a company's operating bases 6 The Safety and Environmental Management Committee (SEMC) formulates group-wide environmental activity guidelines and conducts annual reviews of environmental management systems, with the president serving as chairman. The committee includes subcommittees that are responsible for specific vessel types, businesses, and projects. The Group's four overseas regions also have similar committees
- *7 The NYK Group Environmental Management Meeting first commenced in 2006 and is held annually to provide a forum for main group companies in Japan to share information about their environmental initiatives, and to give special commendations to companies that have made outstanding efforts

Global Promotion of **Environmental Activities** and Multisite System*5



Highlights of Fiscal 2017 Environmental Activities

● Activities by the Group ■ Outside awards/selection

April 2017

- Conducted internal environmental training on the theme of the Group's environmental initiatives (held semiannually)
- Started LNG fuel supply/sales business in Belgium
- Planted trees for Earth Day (April 22) in New Jersey, United States

May

- Held Safety and Environmental Management Committee (SEMC) meeting
- Held IBIS TWO joint committee meeting for four types of vessels

June

- Held environmental conservation campaigns for group companies in Japan and overseas (environmental photo and slogan competitions, and environmental senryu (short humorous or ironical haiku) competition in Japan)
- Participated in outdoor environmental training to celebrate World Environment Day (June 5) in Brazil
- Received grand prize category awards at the 18th Logistics Environment Award (Asahi Unyu Kaisha Ltd., UNI-X Corporation, and Yusen Koun Co. Ltd.)
- Awarded the Best Green Shipping Line for 2016, the fifth consecutive year from France's HAROPA port authorities
- Included in the FTSE4 Good Index for 15th straight year

July

- Supported Kishu Minabe Sea Turtle Research Project (since 2016)
- Received Ship of the Year 2016 award in the large cargo ship category, recognizing NYK Blue Jay's world's first energy-saving technology

August

- Conducted a crisis-response drill based on the scenario of a serious accident
- Participated in the Uchimizu project in Marunouchi,
 Tokyo reusing rainwater to keep the ground cool
- Performed beach cleaning in Qingdao, China
- Planted trees in Thailand

September

- Decided to deploy a binary cycle power generation system on a newly constructed vessel (expected to reduce vessel CO₂ emissions by 2.3% or more)
- Cleaned forests as part of the Clean Up the World Campaign in Poland
- ■Included in the Dow Jones Sustainability Indices (DJSI) for 15th year in a row

October

- ULTY, a boiler combustion-control optimization system developed by NYK Trading Corporation, received an award at the 45th Sasaki Prize
- Conducted internal audit for ISO14001 (until January 2018)
- Conducted internal environmental training on the theme of the Group's environmental initiatives (held semiannually)
- Concluded a memorandum of understanding to provide LNG bunkering services to four shuttle tankers operated by Norway-based oil and gas company Equinor (scheduled to start from 2020)
- Started production of solid fuel based on waste material (RPF: Refuse Paper & Plastic Fuel) (Honma Corporation)
- Received a score of A- in the CDP'S climate change 2017 program

November

- Held the 11th Group Environmental Management Conference
- Held IBIS TWO joint committee meeting for four types of vessels
- Conducted e-learning on environmental themes (until January 2018)
- Held practical workshops on the theme of SDGs with the support of Fairtrade Label Japan, a nonprofit organization
- Performed beach cleaning in Dalian, China

December

- External audit of ISO14001 performed by LRQA (until May 2018)
- Selected for the Ministry of Land, Infrastructure, Transport and Tourism's "energy-saving" rating scheme for Japan's coastal ships (for Sakigake LNG-fueled tugboat and Hidaka Ro-Ro cargo ship (Kinkai Yusen Kaisha Ltd.))

January 2018

 Decided to install a wind-power generator at a completed automobile terminal in Belgium (ICO) as part of our efforts to promote the global expansion of green terminals (scheduled to start operation from fiscal 2019) (see pages 53 and 59 of the NYK Report)

February

Performed beach cleaning in Manzanillo, Mexico

March

- Announced medium- to long-term environmental targets in the new medium-term management plan (see page 25 of the NYK Report)
- Committed the medium- to long-term environmental targets to SBTi (certified in June 2018) (see page 25 of the NYK Report)
- Developed a high-efficiency propeller utilizing actual sea data in collaboration with the Monohakobi Technology Institute and Japan Marine United Corporation (see page 21 of the NYK Report)
- Received MLIT approval of LNG-fueled bulk carrier R&D plan in the ministry's effort to support the introduction of cutting-edge vessels

NYK Group GHG Emission Rates for Fiscal 2017

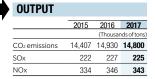
	Item	Emissions rate
Scope 1	Ships, aircraft, semitrailers, etc.	94.4%
Scope 2	Offices	0.3%
Scope 3	Vessel construction, commuting/business trips	5.3%
Total		100.0%

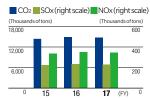
^{*} GHG emission data for Scope 1, 2, and 3 has been verified by a third party organization Assurance statement (https://www.nyk.com/english/csr/envi/manage/disclosure.html)

Ships/Aircraft

NYK

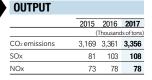
INPUT (Ships)						
	2015	2016	2017			
	(Thousands of t					
Heavy oil C	4,403	4,535	4,487			
Heavy oil A	0	0	0			
Diesel	217	251	258			

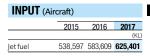




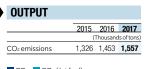
Japan and Overseas group companies

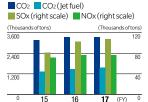
INPUT (Ships)						
	2015	2016	2017			
		(Thousa	nds of tons)			
Heavy oil C	884	943	974			
Heavy oil A	24	37	16			
Diesel	106	96	85			





- * Calculated from the vessel fuel consumption of the Company and group companies for each year based on the IMO guideline
- * let fuel has been added since fiscal 2017

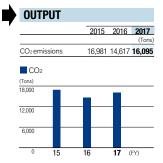




NYK-Operated Container Terminals in Japan

INPUT			
	2015	2016	2017
			(1,000kWh)
Electric power	20,801	18,434	20,475
			(KL)
Fuel	2,447	2,072	2,320

- * Yokohama Terminal excluded from fiscal
- * CO2 emission volumes from electric power are calculated using the emission coefficient for the electric power supplier with which each terminal has a contract. CO2 emission volumes from fuel are calculated using the coefficient stipulated in the Global Warming Act



Offices Input indicates resources and energies we have used.

NYK Headquarters

INPUT			
	2015	2016	2017
		(1,000kWh
Electricity	2,266	2,387	2,426
			(KL
Heavy oil A	0	0	0
Heavy oil B C	0	0	0
Diesel	0	0	0
Kerosene	0	0	0
Gasoline	18	22	18
			(1,000m ³
LPG	0	0	0
City gas	19	19	20
			(Tons
Steam	1,276	1,425	1,533
			(MJ
Heated water	0	0	0
Cooled water	0	0	0
			(1,000m ³)
Water supplied by utilities	17	18	18
			(Tons
Paper	26	25	22





(10115)						(10	115)
1,800							120
1,200		П		П			80
600		П		П			40
					ш		
0	15		16		17	(FY)	0

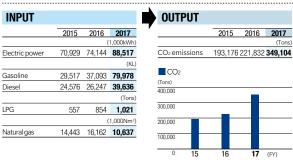
- * CO₂ emissions volumes are calculated from electric power consumption. CO₂ emissions in fiscal 2017 have been calculated using the coefficient of 0.486 kg-CO₂/kWh provided by TEPCO Energy Partner Incorporated (formerly Tokyo Electric Power Co. Inc.; fiscal 2016 result)
 * Of the CO₂ emissions for fiscal 2017, part of the electricity used at the headquarters (92, 130.5 kwh)
- has been offset by using green power
- * The waste volume recycling rate was 90%

Group companies in Japan

INPUT				OUTPUT			
	2015	2016	2017	<i>'</i>	2015	2016	2017
		(1,000kWh)				(Tons
Electricity	52,799	50,436	53,470	CO ₂ emissions	43,134	40,171	41,911
			(KL)	Ordinary waste	932	819	832
Heavy oil A	8	7	7	Industrial waste	1,509	1,419	1,474
Heavy oil B C	0	0	0	Recycling	338	209	208
Diesel	4,768	4,545	4,849				
Kerosene	53	53	56	CO2 Ordina	ary waste	e (right s	cale)
Gasoline	723	649	651	Industrial waste	e (right s	cale)	
			(1,000m ³)	Recycling (righ	t scale)		
LPG	60	81	57	(Tons)			(Tons
City gas	426	395	456	60,000		_	1,80
			(Tons)				1.00
Steam	171	187	216	40,000	Ш		1,20
			(MJ)	20,000		-	60
Heated water	0	0	437	20,000			•
Cooled water	192,328	140,328	149,981	0 15	16	17	(FY)
			(1,000m ³)	10	10	••	()
Water supplied by utilities	206	214	221				
			(Tons)				
Paper	796	515	585				

- * CO₂ emissions volumes are calculated from electric power consumption. CO₂ emissions in fiscal 2017 have been calculated using the electric utility coefficients (fiscal 2016 results) published by the Ministry of the Environment
- * Figures are for consolidated subsidiaries

Overseas group companies



- * CO₂ emissions volumes are calculated from electric power consumption. CO₂ emissions have been calculated using Greenhouse Gas (GHG) Protocol coefficients
 * Figures are for consolidated subsidiaries
 * In fiscal 2017, we expanded the number of reporting overseas group companies from 101 to 199 business sites to improve the accuracy of the data.

Environmental Accounting

The basic concept behind our environmental accounting is to correctly capture the expenses required for the protection of the environment and repeatedly review our findings so that we can engage in appropriate environmental conservation as a part of our business activities.

Fiscal 2017 Overview

In fiscal 2017, we focused on initiatives for conserving the marine environment and curbing global warming, such as adopting low-friction, antifouling paint for ship hulls, removing surface roughness through bilge blasting, and retrofitting existing vessels with SOx scrubbers. As a result, environmental conservation costs increased. Promotion of fuel consumption reductions also increased the environmental conservation effect compared to the previous year.

Comparison of All Costs and Results Related to Environmental Activities

	FY2016		FY2017	
	Environmental protection cost	Year-on-year savings	Environmental protection cost	Year-on-year savings
				(Millions of yen)
Prevention of global warming and air pollution, conservation of marine environments, conservation of resources, and deployment of environmental technologies	2,309	3,068	2,911	3,400

NYK's In-house Classifications

Environmental policies	Objectives	Items	Environmental protection cost
			(Millions of yen)
1. Continual improvement	Maintenance of environment management systems	Construction, operation, ISO certification (including personnel costs)	87
Complying with laws and regulations	Restorative work in response to environmental degradation	Restorative work in response to marine pollution, etc.	0
3. Ensuring safe operations	Reducing accidents and trouble	NAV9000 and other safety promotion activities (including personnel costs)	197
4. Prevention of global warming and air pollution, protecting	Preventing global warming and air pollution	Use of fuel additives to improve combustion; activities to reduce ship fuel consumption; propeller polishing, etc.	650
ocean environments, saving natural resources	Preventing marine pollution	Use of corrosion-resistant steel in VLCC cargo tanks, etc.	0
	Conservation of natural resources	Environmentally conscious purchases*	0
	Preventing global warming and air pollution	Installation of electronically controlled engines, installation of exhaust gas economizers and other energy-saving devices, low-sulfur fuel measures, etc.	1,091
5. Use of environment friendly	Preventing destruction of the ozone layer	Ship air-conditioners, refrigerators / freezers, etc.	0
technologies	Preventing marine pollution	Ballast water management systems and the NYK bilge treatment system, etc.	296
	R&D expenses	Smart fleet operations, Technology to reduce the CO_2 and NOx emissions of large main engines in vessels	582
6. Environment education	Raising environmental awareness and promoting our Green Policy	Environmental e-learning, environmental protection campaigns, etc.	1
7. Community activities to promote environmental awareness	Environmental information disclosures, social contributions, etc.	Expenses for NYK Report, sponsorship of environmental organizations, etc.	7
Total			2,911

 $^{{}^{\}star}\text{The Company uses FSCR-certified paper, but the price difference is not substantial and is thus recorded as zero}$

Classification According to the Environmental Accounting Guidelines of the Ministry of the Environment

Environmental protection cost

Classification	Investment	Expenses
		(Millions of yen)
(1) Cost within NYK business activities:		
a. Pollution prevention cost	561	60
b. Global environmental protection cost	441	975
c. Recycling cost	0	0
(2) Upstream and downstream cost	0	0
(3) Management activity cost:		
a. Operation and maintenance of environmental management systems	0	284
b. Environmental information disclosure, environmental advertising	0	4
c. Environmental education and training	0	1
d. Expenses for environmental improvement	0	0
(4) R&D cost:		
Environmental-burden reduction	0	582
(5) Social contribution activities cost:		
Social contribution activities	0	3
(6) Environmental damage response cost	0	0
Total	1,002	1,909

Calculation methodology:

- 1. The period is from April 1, 2017, to March 31, 2018 (The calculation period for activities to reduce ship fuel consumption is from January 1, 2017, to December 31, 2017.)
- The scope is primarily business activities associated with NYK's headquarters and branch offices, NYK-operated terminals, fleet, and ancillary activities in Japan (Expenses to maintain ISO 14001 certification are included for certified group companies in North America, Europe, South Asia, and East Asia.)
- $3. The \, Ministry \, of the \, Environment's \, fiscal \, 2005 \, Environmental \, Accounting \, Guidelines \, were \, used \, 4. \, Investment \, amount \, refers to \, cost for \, depreciable \, environment-related \, facilities \, acquired \, depreciable \, acquired \, for \, continuous \, for \, cost \, for \, depreciable \, for \, cost \, for \, cost$ during the term
- 5. Expenses include maintenance and management of facilities for the purpose of environmental protection and associated personnel costs, but do not include depreciation 6. Cost calculations do not include costs to comply with legal requirements and the like and cover
- only voluntary environmental protection activities
 7. Results are noted only to the extent that impact can be quantified

Human Resources Data

NYK Group (Including NYK headquarters)

Number of employees of consolidated companies (long-term employees, employees on contracts for over six months)

Employee I	Demogra	aphics	FY2015	FY2016	FY2017
Total number of em	oloyees (a)		34,276	35,935	37,820
By region	Japan		8,204	8,336	8,156
	Europe		5,423	5,686	7,390
	South Asia		12,213	13,093	13,788
	North America		2,760	2,779	2,667
	East Asia		3,876	4,103	3,975
	Oceania		385	479	420
	Central and Sout	n America	1,415	1,459	1,424
Number of	Japan	Male	276	295	283
employees		Female	2	3	6
promoted to	Europe	Male	55	62	66
director by region*1		Female	4	5	7
	South Asia	Male	86	86	92
		Female	9	7	12
	North America	Male	33	29	30
		Female	5	2	1
	East Asia	Male	39	38	38
		Female	3	3	4
	Oceania	Male	11	9	6
		Female	0	2	2
	Central and	Male	8	6	5
	South America	Female	0	2	2

^{*1} National staff hired locally. Excludes employees seconded from headquarters and other organizations

Employee D	Diversity	FY2015	FY2016	FY2017
Number of	Total (b)	21,171	19,281	19,081
non-Japanese	Vessels under			
seafarers	group management	9,071	7,533	7,179
	Chartered vessels	12,100	11,748	11,902
Ratio of female emp	oloyees (%)			
		34.9*1	34.9	35.2
Ratio of female managers (%)*2		21.5	21.7	23.4

^{*1} An error in the fiscal 2015 values included in the NYK Report 2017 has been corrected *2 Managers or higher

			FY2015	FY2016	FY2017
Ratio of	Japan	Male	91.1	90.6	89.9
management by		Female	8.9	9.4	10.1
region and gender	Europe	Male	79.7	78.6	69.5
(%)*1		Female	20.3	21.4	30.5
	South Asia	Male	69.9	70.3	67.6
		Female	30.1	29.7	32.4
	North America	Male	70.1	68.9	67.4
		Female	29.9	31.1	32.6
	East Asia	Male	69.5	68.1	67.0
		Female	30.5	31.9	33.0
	Oceania	Male	82.8	83.5	85.9
		Female	17.2	16.5	14.1
	Central and	Male	75.0	78.9	79.4
	South America	Female	25.0	21.1	20.6
By gender	Male		22,673	23,753	24,864
	Female		11,603	12,182	12,956
By job type	Office workers*	2	33,068	34,708	36,630
	Seafarers*3		1,208	1,227	1,190
New hires	Total		6,185	6,473	6,263
	Male		4,234	4,267	4,070
	Female		1.951	2,206	2,193

^{*1} National staff that are managers or higher. Includes employees seconded from headquarters and other organizations
2 Includes navigation officers and engineers at the office, and employees seconded from

Number of Group Employees (including non-Japanese seafarers)

FY2015 FY2016 FY2017

NYK Headquarters

Employees Demograp	phics		FY2015	FY2016	FY2017
Total number of employees			1,674	1,697	1,710
By gender		Male	1,356	1,374	1,388
		Female	318	323	322
Long-term employees	Office workers (Excludes navigation officers and engineers at the office)	Male	751	756	763
		Female	267	268	268
	Seafarers currently working at the office (navigation officers and engineers	Male	255	261	272
	at the office)	Female	5	6	7
	Seafarers	Male	296	298	294
		Female	9	11	11
ixed-term employees	Office workers	Male	48	51	51
		Female	37	38	36
	Seafarers	Male	6	8	8
		Female	0	0	0
ong-term employees and fixed term	Office workers (Excludes navigation officers and engineers at the office)		1,103	1,113	1,118
mployees	Seafarers currently working at the office (navigation officers and engineers		,		
	at the office)		260	267	279
	Seafarers		311	317	313
verage age (years old)	Office workers (Excludes navigation officers and engineers at the office)		41.1	40.8	40.8
	Seafarers (Includes navigation officers and engineers at the office)		38.2	37.9	38.1
Age range*1	Office workers (Excludes navigation officers and engineers at the office)	Under 30	195	212	217
		30-49	567	555	537
		50 and older	256	257	277
	Seafarers (Includes navigation officers and engineers at the office)	Under 30	146	147	147
		30-49	349	363	357
		50 and older	70	66	80
lew hires* ²	Total		66	77	65
	Office workers (Excludes navigation officers and engineers at the office)	Male	33	38	33
		Female	8	8	5
	Seafarers (Includes navigation officers and engineers at the office)	Male	24	28	25
		Female	1	3	2
tate of turnover within	Office workers (Excludes navigation officers and engineers at the office)		0.9	1.6	0.1
3 years after hire (%)	Seafarers (Includes navigation officers and engineers at the office)		3.1	2.6	4.8
Ratio of retirement for personal reasor	ns (%)		0.9	0.8	1.1
Turnover rate at NYK (%)			4.0	3.8	3.1

group companies

^{*3} Excludes seafarers hired outside Japan

^{*} Navigation officers and engineers either hold a seafaring license or are in the process of acquiring one at a maritime college

^{*1} Excludes fixed-term employees
*2 Includes new graduates and mid-career hires

Employee Diversity		FY2015	FY2016	FY2017
Ratio of female employees (%)	Office workers (Includes navigation officers and engineers at the office)	21.3	21.2	21.0
	Seafarers	3.0	3.6	3.6
Ratio of female managers*1 (%)	Office workers (Includes navigation officers and engineers at the office)	15.2	15.1	16.0
	Seafarers	0.0	0.0	0.0
Employment ratio of people with disabilities (%)		2.5	2.5	2.4

^{*1} Office workers include employees at manager or higher. Seafarers include captains and chief engineers. The calculation method has been changed for both types (female managers divided by the total

Occupational Heal	th and Safety	FY2015	FY2016	FY2017
Number of occupational	Total	7	4	7
accidents*1	Office workers (Includes navigation officers and engineers at the office)	4	2	1
	Seafarers	3	2	6
Number of work-related	Total	0	0	0
deaths	Office workers (Includes navigation officers and engineers at the office)	0	0	0
	Seafarers	0	1	0
Number of lost days	Total	242	77	42
caused by occupational accidents	Office workers (Includes navigation officers and engineers at the office)	182	0	0
accidents	Seafarers	60	77	42

^{*1} Excludes commuting accidents

Employee Support System		FY2015	FY2016	FY2017
Average number of days of paid leave taken*1		14.1	16.8	17.0
Number of employees who took maternity leave*2		9	16	16
Number of employees who used parental leave progra	m*2 Total	24	35	40
	Male	6	15	16
	Female	18	20	24
Ratio of employees who returned to work after taking parental leave (%)		90.0 (Number of employees who left the Company: 1)	100.0	100.0
Retention rate of employees who used parental leave program (%)		100.0	100.0	100.0
Number of employees who used shortened	Total	22	16	14
working hours program* ²	Male	0	0	0
	Female	22	16	14
Number of working mothers*3		51	52	54
Number of employees who used family-care leave	Total	1	1	0
program* ²	Male	1	1	0
	Female	0	0	0
Ratio of employees who returned to work after taking family-care leave (%)		NA	NA	100.0
Retention rate of employees who used family-care leave program (%)		NA	NA	100.0

^{*1} Excludes seafarers and employees currently seconded to other companies / Includes paid summer holidays
*2 Total number of users, excluding those who left the Company
*3 Mothers with children in compulsory education or younger / Excludes mothers on maternity or parental leave

Education				
<u> </u>		FY2015	FY2016	FY2017
Average number of days	Company average	-	13.5	11.7
participating in training programs	Office workers*1 (Includes navigation officers and engineers at the office)	6.8	6.6	5.8
	Seafarers	34.4	39.5	34.6
Average expenditure on education and training programs (yen)	Company average	-	298,470	267,037
	Office workers*2 (Includes navigation officers and engineers at the office)	181,410	184,962	144,940
	Seafarers	614,410	719,175	743,068

^{*1} Excludes workers trained outside the Company
*2 Programs for office workers trained inside or outside the Company



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