

Joint Seminar by JMC and the IOPC Funds

Safety of NYK Energy Transportation

2023-October-18

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General Manager

Global Tanker Quality

NYK Line



- Why SAFETY
- For the safety
- SAFETY vs ENVIRONMENT



RISKS

Fire, explosion, etc., leading to an accident that shakes the company's foundation.



▶ MARPOL

International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto

1973年の船舶による汚染の防止のための国際条約に関する1978年の議定書

MARINE POLLUTIONのスペルを抜粋して「MARPOL」

▶ SOLAS

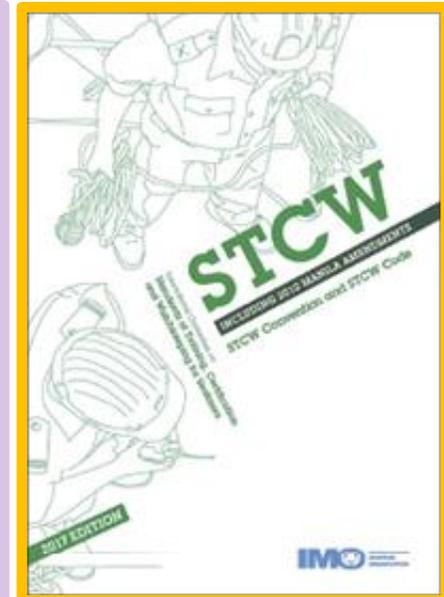
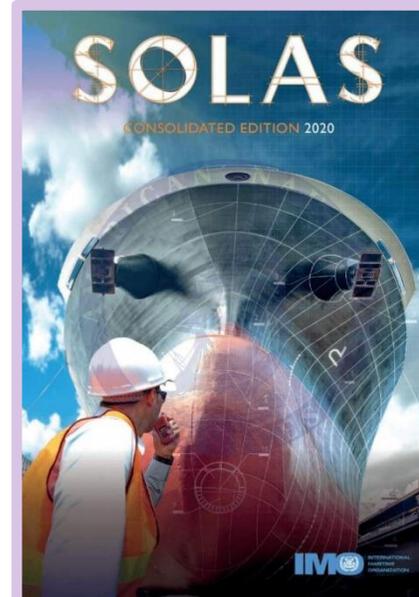
International Convention for the Safety of Life at Sea

海上における人命の安全のための国際条約

▶ STCW条約

International convention on standards of training, certification and watchkeeping for sea farers
1978

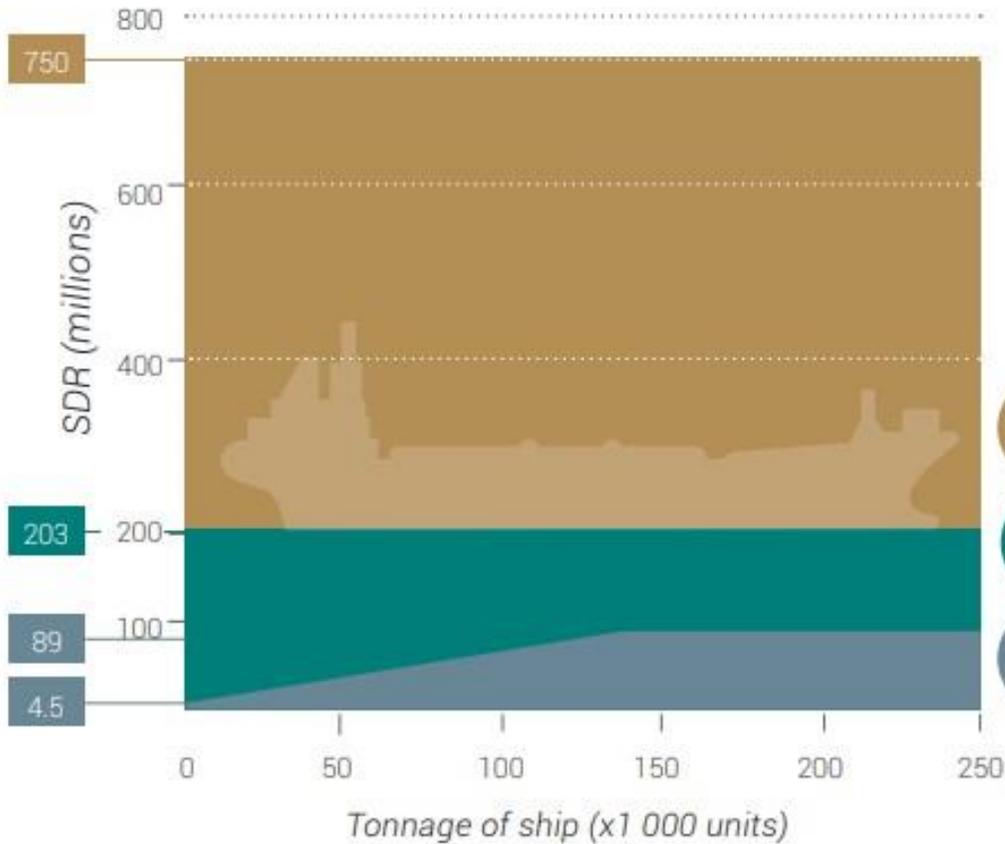
1978年の船員の訓練及び資格証明並びに当直の基準に関する国際条約



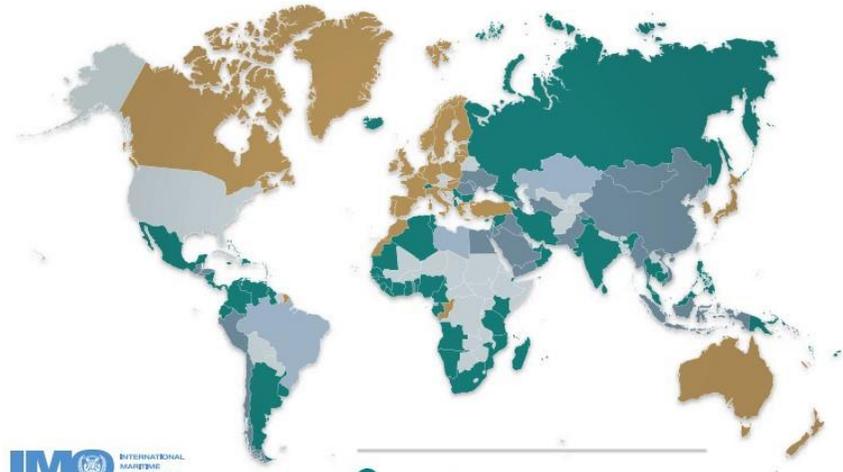
Limitation of Shipowner Liability



MAXIMUM LIMITS OF COMPENSATION



■ 1992 CLC
 ■ 1992 Fund Convention
 ■ Supplementary Fund Protocol



Based in London, the IOPC Funds shares its premises with the International Maritime Organization (IMO). As a specialised agency of the United Nations, IMO is the global regulatory body for the shipping industry.

- States Parties to the 1992 Fund Convention
- States Parties to the Supplementary Fund Protocol
- States Parties to the 1992 Civil Liability Convention
- States Parties to the 1969 Civil Liability Convention

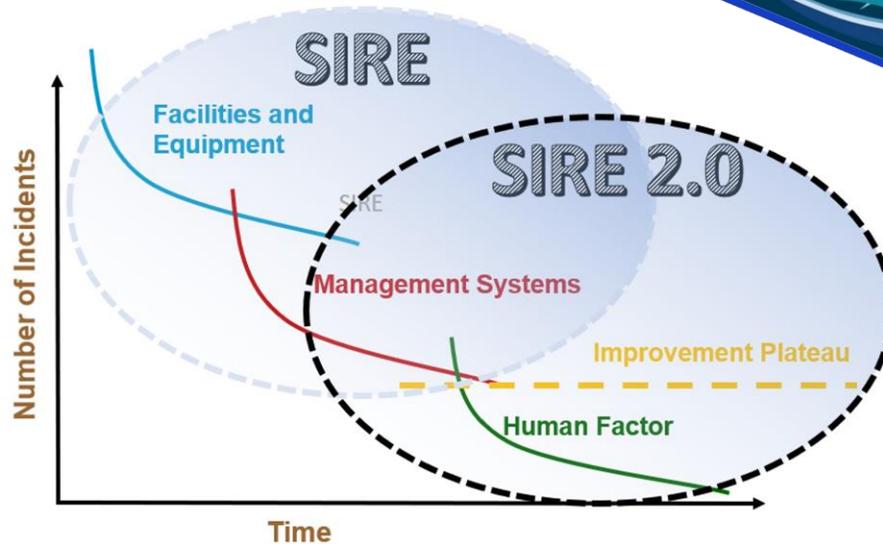
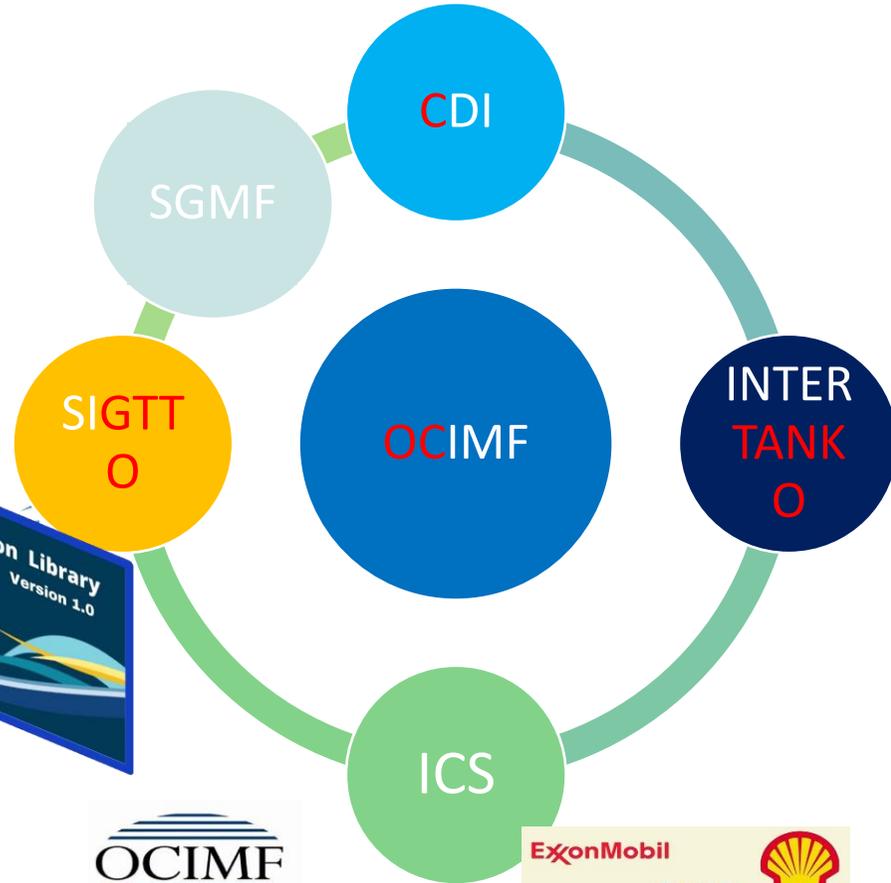


Industry rules



SIRE 2.0: A step change towards our vision

Further step change towards an industry that causes no harm to people or the environment





Ship Managers



NYK SHIPMANAGEMENT



NYKLINE

NYK LNG Shipmanagement (UK) Ltd.



NYKLINE

NYK LNG Shipmanagement Ltd.

ANGLO-EASTERN



KNOT

Knutsen
NYK Offshore
Tankers

Stolt Tankers



Wilhelmsen
Ship Management

NiMiC

Ship Management Co., Ltd.



GAZOCEAN



共栄タンカー株式会社

KYOEI TANKER CO., LTD.

Ensure uniform quality as NYK group

GTQ: Global Tanker Quality

Global Network

Regional Member in Europe
LONDON
- NYK LNG
SHIPMANAGEMENT (UK)
LTD.

TOKYO
- NYK LNG
SHIPMANAGEMENT
LTD.

<Secretariat>
- NYK Line Energy Co-
ordination Group
Global Tanker Quality
Team

Regional Member in ME
DUBAI
- NYK Line Dubai
(Area Marine
Representative)

Regional Member in SA
SINGAPORE
- NYK BULKSHIP ASIA
- NYK
SHIPMANAGEMENT
PTE LTD

Regional Member in USA
HOUSTON
- NYK ENERGY
TRANSPORT (USA), INC.

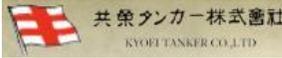
Ship Managers


NYK LNG Shipmanagement (UK) Ltd. NYK LNG Shipmanagement Ltd.

 
ANGLO-EASTERN KNOT Knutsen
NYK Offshore
Tankers

 
Stolt Tankers Wilhelmsen
Ship Management

 Ship Management Co., Ltd.

 
GAZOCEAN 共栄タンカー株式会社
KYOTO TANKER CO. LTD.

Safety and Environmental Management Committee



Liquid Safety and Environmental Management Committee (FY2022)

Global Tanker Quality
Energy Co-ordination Group

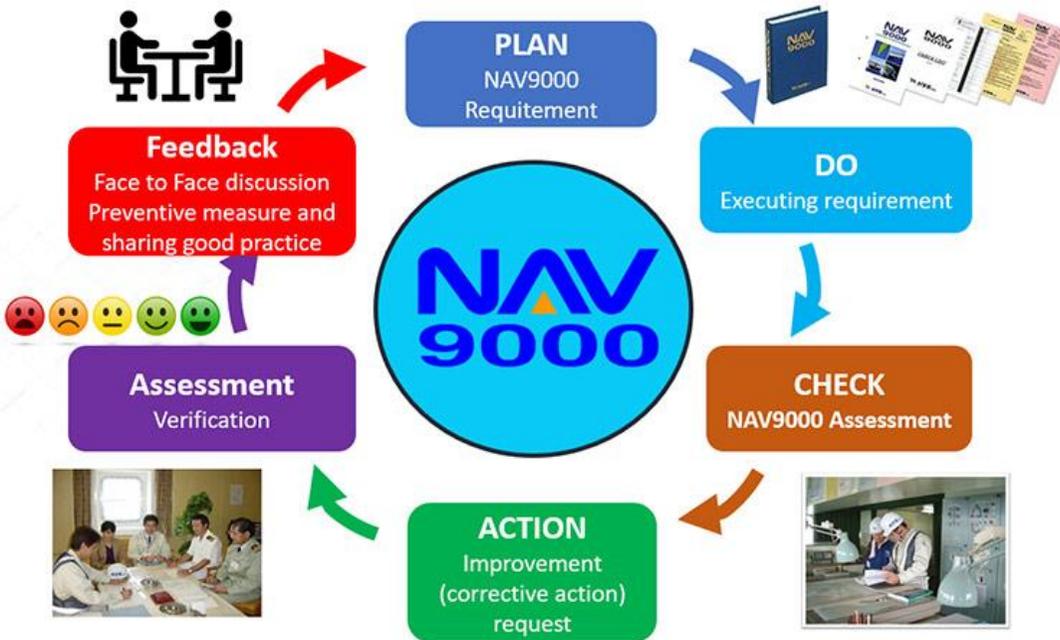
06 June 2023



SAFETY- INSPECTION

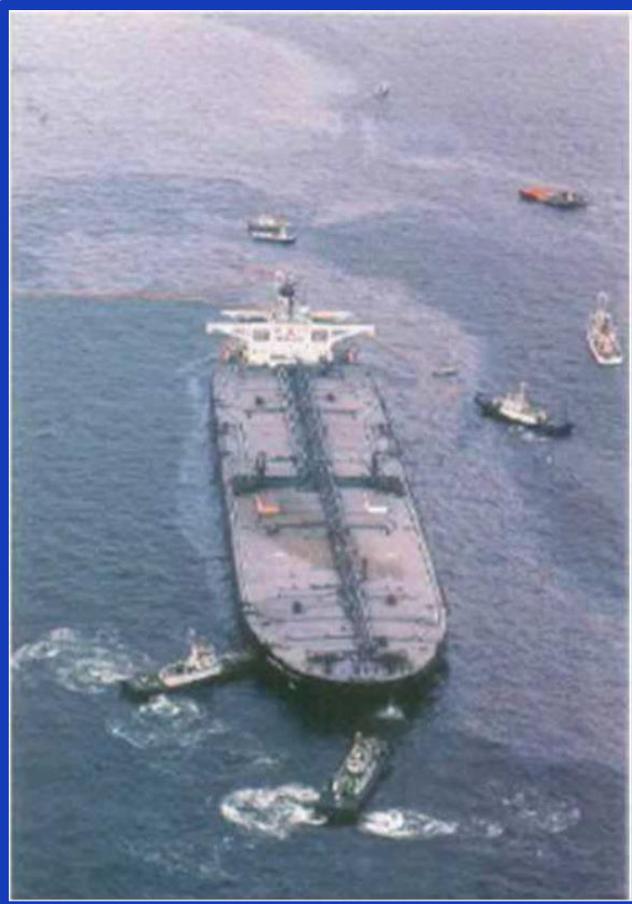


CSO (Marine) Koyama (left) attending a ship inspection along with a

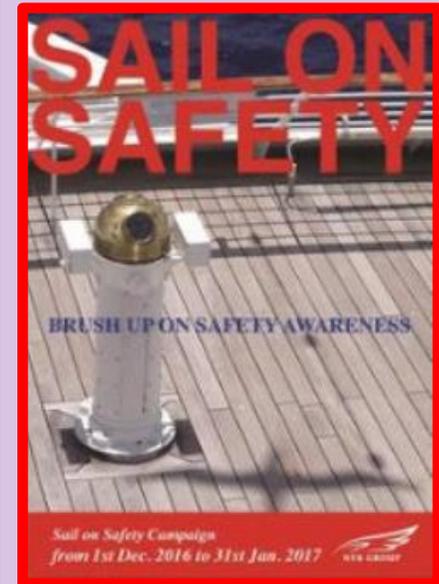


NAV9000 audits

Remember Naka-no-Se Campaign(in Summer)



Sail on Safety Campaign(in Winter)





TENETS OF CRUDE CARRIERS SAFE CARGO OPERATION

1. **STOP CARGO WORK.** Whenever you are in doubt or in the event of any mechanical failure or if any abnormal phenomenon noticed.
 - » Restart only after confirming everything is safe.
2. **MAKE LINE DIAGRAMS** for all stages of cargo work.
3. **CARRY OUT ZERO START** to avoid wrong operations and careless mistakes.
4. **PREVENT LIQUID SEAL CONDITION.** Drain well before shutting the valves.
5. **ENSURE DOUBLE CHECKING** of all cargo operations.
 - » Cargo operators actions to be continuously double checked by the duty officer.
6. **CLOSED LOOP COMMUNICATION** with no scope of errors due to miscommunication.
 - » **Answer back** for every single order before acting on it. **Report back** once job is completed. (Same procedure as ordering the helmsman on bridge)
7. **CONTINUOUSLY MONITOR NON - NOMINATED CARGO TANKS** too.
8. **DON'T OPERATE MORE THAN 1 GRADE OF CARGO** at a given time.
 - » To prevent cargo contamination.
9. **CONFIRM POSITIVE RESULT** of every single valve and pump operation.
10. **REGULAR DECK AND PUMP ROOM ROUNDS.**
 - » Each station on deck not to be left unattended. Deck crew not to gather at one spot.
 - » Take precautions against toxic gases.

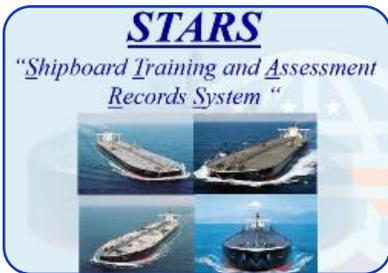
Tanker Group, NYK Line



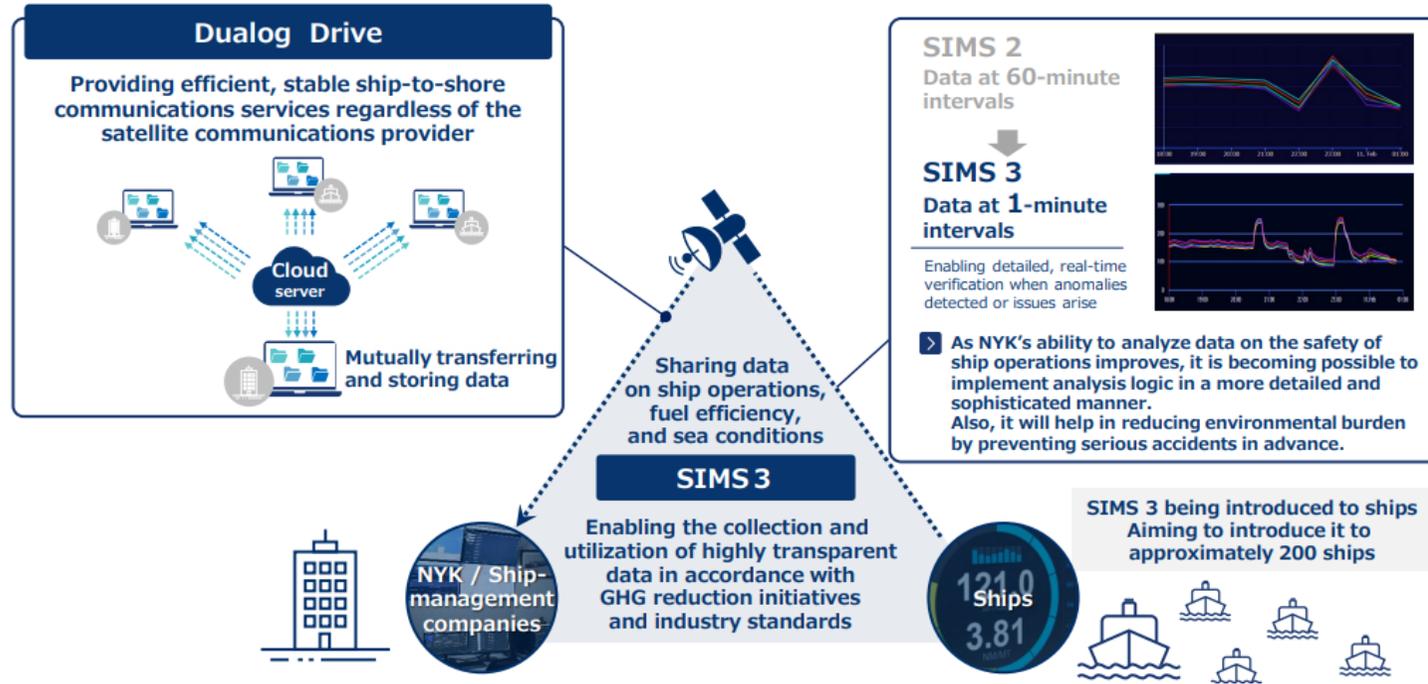
VLCC Cadet Ship



Our training facility is within a two-hectare property strategically located in Carmelray Industrial Park in Canlubang, Laguna. A spacious compound that is comprise of a Training Center, Workshop area and Dormitories for trainees.



Dualog Drive and SIMS 3 — Utilizing ship data to avoid dangerous scenarios —



"NYK's Innovative Business Information and Knowhow Initiative"

Issues in Shipmanagement Operations

- Crew workload from daily reporting and approval requests and the storage and filing of documents
- Difficult to effectively utilize data because it is managed independently

Benefits of NiBiKi

- Reduces the workloads of crews, freeing them up to focus on ship operations
- Allows the sharing of data among NYK, its five shipmanagement companies, and around 260 vessels
- Can be effectively used for safe operations using big data analyses

SAFETY-ENCOURAGE

① Information for the Ship

- **New NYK AWARE binders are being distributed through the management company.**
- NYK AWARE2022 is also included as an additional module in the binder, and we hope that NYK AWARE will continue to be utilized to raise safety awareness among the crew.



- A4 size
- Changed to a type whereby new modules can be inserted into a clear file.
- Updates once released will be distributed to the ship as pdf copies.

② Information for management companies

- **Videos explaining NYK AWARE's purpose and how to use it as a tool** (3 versions in Japanese, English and Tagalog) are shared via TOPAZ NAV9000 Database.
- Please download and distribute them to your managed ships so that NYK AWARE can be utilized.



Road Map for Vessel Fuel Change



The NYK Group's Roadmap for GHG Reduction



The NYK Group's entire roadmap for GHG reduction, which includes non-oceangoing businesses, will be announced separately and prior to the group's new medium-term management plan, which is scheduled to be released in fiscal 2022.

	Short to Medium-term Target	Long-term Target
By September 2021	Target Year: 2030 -30% (Base Year: 2015) Scope: Ships & Aircrafts	Target Year: 2050 -50% (Base Year: 2015) Scope: Ships & Aircrafts
After October 2021	Target Year: 2030 -30% (Base Year: 2015) *Renewed Target will be released in 2022 Scope: Ships & Aircrafts	Net-Zero Emissions* Scope: Oceangoing Ships
2 nd Half 2022 to 1 st Half 2023	Renewed Target *Including Base Year & Target Year	Net-Zero Emissions Scope: To Be Announced

*On January 17, 2022, Yusen Logistics Co. Ltd., responsible for NYK Group's logistic business, also decided to aim to achieve net-zero GHG emissions for all services by 2050.

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Conclusion

- Energy transport must be extra safe.
- Every effort must be made to ensure safety, whether by man, hand, DX, new technology or old methods.
- Safety is fundamental to environmental protection.



Bringing value to life.



NYKLINE
NIPPON YUSEN KAISHA



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