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Prevention of air pollution

Governance

The NYK Group has identified “prevention of air pollution” as one of the three environmental issues that should be particularly addressed in the “NYK Group Environmental Vision.”

Please see “Environmental Management” for the governance structure of environment-related issues, including prevention of air pollution.

For more information, click on the link below.

[P.029 Environmental Management](#)

Strategies and Risk Management

The NYK Group follows international and regional regulations regarding air pollutant emissions, and operates vessels and air cargo in accordance with the same.

In addition to procuring vessels that meet environmental regulations, we are steadily reducing air pollutants by ensuring that the vessels are operated with the appropriate fuel that is in compliance with rules and regulations (low-sulfur bunker oil), and by using clean, sulfur-free LNG fuel. Moreover, we ensure that our use of regulation-compliant fuel oil is controlled through ongoing analysis of bunker oil.

Initiatives

Recovery and Treatment of Exhaust Gas from Pure Car and Truck Carriers

We have signed an agreement with STAX Engineering Pty Ltd., a U.S. company leading in maritime emissions capture and control, emissions capture and control technology to recover exhaust gases from ships.

This initiative comes in response to the California Air Resources Board’s (CARB) extended regulations on exhaust emissions for ships and vessels making port calls in the U.S. state of California. Emission regulations by CARB currently require oceangoing container and passenger ships calling at California ports to reduce their emissions of nitrogen oxides (NOx), reactive gases (ROG), carbon dioxide, particulate matter (PM), and diesel particulate matter (DPM) emissions while at berth. Because pure car and truck carriers and tankers will also be subject to these regulations in 2025, there is an urgent need to address this issue. We will use this emissions capture and control technology to collect and treat exhaust gas emitted by our pure car and truck carriers while at berth, starting in January 2025.



Image of exhaust gas recovery and treatment using emissions capture and control technology

Vessel Speed Reduction

The NYK Group also participates in the “Green Flag” Incentive Program that the Port of Long Beach has implemented to improve air quality. The program aims to reduce exhaust emissions from vessels by encouraging shipping companies to operate vessels under 12 knots within a 40 nautical-mile zone.

The Company has maintained a high compliance rate with the Long Beach Program of over 90% in previous years. NYK Bulk & Projects Carriers Ltd., a group company, was honored in July 2023 for excellence in the previous year’s performance.



Operators who contributed to the ESG Navigator and Vessel Speed Reduction (VSR) Programs

Related Data

NOx, SOx Emissions (from ships)

