

Installed Rotor Sails to NSU TUBARAO(400,000-DWT Ore Carrier)

NS United Kaiun Kaisha, Ltd. (Head Office: Tokyo) has completed the installation of five [rotor sails](#) (cylindrical wind-assisted propulsion devices, each 35 meters high and 5 meters in diameter) manufactured by Anemoi Marine Technologies Ltd (Head Office: UK), along with [a shaft generator](#), on the 400,000-deadweight ton ore carrier NSU TUBARAO (Built in September 2020, hereinafter “the vessel”) on October 29, 2025. The vessel is engaged in a long-term ore transportation contract with Vale International SA* (Head Office: Switzerland).

A rotor sail is a device to obtain propulsion by using the pressure difference created by a rotating cylinder mounted on the deck. It is expected to reduce fuel consumption and GHG (greenhouse gas) emissions from the vessel by approximately 6~12%.

NS United Kaiun Group is actively promoting introduction of energy-saving devices such as rotor sails, as well as transition to next-generation fuels to reduce GHG emissions, in pursuit of carbon neutrality. The group will continue to take proactive measures to further reduce environmental impact and contribute to building a sustainable future.

*Vale is committed to supporting the maritime industry in achieving the International Maritime Organization's (IMO) decarbonization targets. Aligned with the ambition of the Paris Agreement, Vale also has a target of a 15% reduction in scope 3 emissions by 2035, related to the value chain, of which shipping emissions are part, since the ships are not owned by the company.



NSU TUBARAO after the rotor sails installation

The vessel's details

Dimensions : LOA 361.0m x Beam 65.0 m x Depth 30.2 m x Draft 23.0 m

Deadweight ton : 399,717 MT

Gross Tonnage : 198,681

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