



News Release

March 23, 2023  
Electric Power Development Co., Ltd.

## First Coal Carrier for Japanese Thermal Power Stations to Use a Wind-Powered Kite Propulsion



Seawing in action (computer image)

Electric Power Development Co., Ltd. (J-POWER, headquartered in Chuo-ku, Tokyo; President: Toshifumi Watanabe) and Kawasaki Kisen Kaisha, Ltd. ("K" LINE, headquartered in Chiyoda-ku, Tokyo; President: Yukikazu Myochin) have agreed to install an automated kite system using wind power called Seawing\* onboard the coal carrier *CORONA CITRUS* ("the vessel").

The Seawing system will use wind power to assist in propelling the vessel and to reduce the use of fuel oil. Seawing is expected to reduce CO<sub>2</sub> emissions while underway by an

average of 20% compared with conventional propulsion. The vessel is the first coal carrier for Japanese thermal power stations to use this system.

The vessel, which entered service in September 2019 under a contract between J-POWER and "K" LINE, is equipped with a SOx scrubber to remove sulfur oxides from the engine exhaust gases in compliance with SOx emission regulations. Seawing will further reduce the vessel's environmental impact.

We will continue to take on the challenge of achieving carbon neutrality, as stated in J-POWER BLUE MISSION 2050 in February 2021.

\*Seawing: An automated kite system developed by Airseas, a company spun off from the major aircraft company Airbus. This system is installed on the bow of the vessel, and under certain wind conditions and direction, the kite can be deployed and retracted automatically with a switch on the bridge. Using wind power to assist with propulsion is expected to reduce CO<sub>2</sub> emissions by an average of 20%.