

May 30, 2024

Kawasaki Kisen Kaisha, Ltd.

Delivery of a Capesize Bulk Carrier fueled by LNG "CAPE HAYATE" for JFE Steel Corporation

Today, the 210,000-dwt ton capesize bulker fueled by LNG (Liquefied Natural Gas) "CAPE HAYATE" which had been under construction at Tsu shipyard of Japan Marine United Co., Ltd., has been delivered to Kawasaki Kisen Kaisha, Ltd. ("K" LINE).

It is the first capesize bulk carrier in "K" LINE to be equipped with a dual-fuel diesel engine that utilizes LNG as its primary fuel. LNG fuel is expected to reduce emissions of carbon dioxide (CO<sub>2</sub>), a greenhouse gas (GHG), by 25% to 30%, emissions of sulfur oxide (SO<sub>x</sub>), which cause air pollution, by almost 100%, and emissions of nitrogen oxide (NO<sub>x</sub>) by approximately 75%, which achieve IMO Tier III NO<sub>x</sub> regulations, compared to conventional vessels using heavy fuel oil. It is equipped with the latest dual-fuel electronic control engine, "7X62DF-2.1 iCER" by WinGD, which will reduce methane slip when using LNG fuel.

"K" LINE will also install "Seawing"\*<sup>1</sup>, an automated kite system utilizing wind power, to increase the effects of carbon-free.

It will be engaged in the carrying of steel raw materials for JFE Steel Corporation under a long-term consecutive voyage charter contract, and "K" LINE aims to contribute the carbon-free of all of the marine transportation in the customer's supply chain.

In "K" LINE Environmental Vision 2050 -Blue Seas for the Future-\*<sup>2</sup>, we have set the 2030 interim target of improving CO<sub>2</sub> emissions efficiency by 50% compared with 2008, surpassing the IMO target of a 40% improvement. Furthermore, we set our new target for 2050 as "The Challenge of Achieving Net-Zero GHG Emissions." As an action plan, we will continue to work on the introduction of new fuels which have a low environmental impact and take on the challenge of achieving the targets we have established.

**【Vessel Particulars】**

Main Measure :	LOA 299.99M × Width 50.00M × Depth 25.00M × Draft 18.436M
Deadweight :	210,870 T
Gross Ton :	110,439
Main Engine :	DU-WinGD 7X62DF-2.1
Speed :	14.0KTS
Class :	ClassNK
Flag :	Japan
Builder :	Japan Marine United Corporation

\*1.

June 7, 2019: Installation of "Seawing", an automated kite system utilizing natural energy  
<https://www.kline.co.jp/en/news/csr/csr-20190607.html>

February 16, 2024: Establishment of OCEANICWING S.A.S. and Acquisition of AIRSEAS Business  
<https://www.kline.co.jp/en/news/other/other-20240216.html>

\*2. "K" LINE Environmental Vision 2050 -Blue Seas for the Future-  
As an action plan for GHG reduction, we are introducing zero-emission fuels such as ammonia and hydrogen fuels, as well as carbon-neutral fuels such as bio-LNG and synthetic fuels.  
<https://www.kline.co.jp/en/sustainability/environment/management.html>

**【CAPE HAYATE】**



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