

December 19, 2022

Kawasaki Kisen Kaisha, Ltd.

Northern Lights JV DA

“K” LINE enters into long-term contracts with Northern Lights for two liquefied CO2 vessels
~World’s first full scale CCS project~

Kawasaki Kisen Kaisha, Ltd. (“K” LINE) and Northern Lights JV DA have signed Bare Boat Charter and Time Charter contracts for two 7,500 m3 liquefied CO2 ships. The ships will be delivered in 2024 and will contribute to the world’s first full-scale carbon capture and storage (CCS) value chain.

The London-based subsidiary “K” LINE LNG Shipping (UK) Ltd. will undertake the management of two ships transporting liquefied CO2 from industrial emitters, including the Norcem Brevik and Hafslund Oslo Celsio carbon capture facilities, to the Northern Lights CO2 receiving terminal in Øygarden, Norway.

““K” LINE has deep experience in liquefied gas transport and a strong safety and environmental track record. We are pleased to partner with “K” LINE in operationalising this innovative value chain”, said Børre Jacobsen, Managing Director of Northern Lights.

CO2 transport is a key component to connect industrial emitters in Europe to suitable and safe CO2 storage sites such as the one operated by Northern Lights in the North Sea. Northern Lights offers a ship-based solution that provides flexibility to reach emitters across Europe.

Shipping is a scalable CO2 transport solution that is well-suited for sailing distances in Europe. Developing a flexible shipping solution as part of the world’s first cross-border CO2 transport and storage network, Northern Lights contributes to the development of a market for CO2 storage.

“We are honoured to participate in the Northern Lights project and contribute to the decarbonisation of industry. We have been able to develop a new field by making use of our decades of know-how in liquefied gas transport”, said Yukikazu Myochin, President and CEO of “K” LINE.

Northern Lights and “K” LINE will jointly establish operational procedures for safe transportation of liquefied CO2. The ships are classified by DNV and will be registered in Norway and operated under Norwegian (NOR) flag by mainly Norwegian shipboard personnel.

About Northern Lights

Northern Lights is developing an open and flexible infrastructure to transport CO2 from industrial emitters by ship to a receiving terminal in western Norway for intermediate storage, before being transported by pipeline for permanent storage in a geological reservoir 2,600 meters under the seabed. Operations are scheduled to start in 2024. The facilities are under construction and will enable Northern Lights to offer a safe and reliable shipping and storage service to industrial emitters from across Europe. With increased interest from industrial sectors in Europe, additional shipping and storage capacity will be developed as demand grows. Northern Lights JV DA is a registered, incorporated General Partnership with Shared Liability (DA) owned equally by Equinor, Shell and TotalEnergies.

About Kawasaki Kisen Kaisha, Ltd. ("K" LINE)

Kawasaki Kisen Kaisha, Ltd. ("K" LINE) founded in 1919 is one of the largest shipping companies in the world. "K" LINE has a long history and diversified track-record in ownership and technical management of liquefied gas carriers since delivering its first LPG carrier in 1974 and first LNG carrier in 1983. Based on such extensive experience of safe navigation and cargo operation of liquefied gas carriers, "K" LINE will contribute to safety and reliable liquefied CO₂ transportation in the new CCS market. "K" LINE Group, as a globally trusted logistics company rooted in the shipping industry, will continue to work toward realizing low-carbon and carbon-free business operations and supporting decarbonization of society as a whole in order to realize a sustainable society and increase its corporate value, based on its corporate philosophy of "helping make the lives of people more affluent".

Northern Lights Liquefied CO₂ vessel (Provided by Northern Lights JV DA.)**【Dimensions and Characteristics】**

Cargo tank capacity	: 7,500 m ³
Length overall	: 130m
Breadth	: 21.2m
Draft	: 7.5m