

February 2, 2022

Kawasaki Kisen Kaisha, Ltd.

“K” LINE has Joined an International Think Tank “Global CCS Institute”

~Promoting the development of CCS-related businesses to realize a carbon-neutral society~

Kawasaki Kisen Kaisha, Ltd. (“K” LINE) has joined an International Think Tank “Global CCS Institute” (GCCSI). GCCSI is advancing worldwide deployment of CCS (Carbon dioxide Capture and Storage) technology which is necessary for the realization of a carbon neutral society.

CCS is a series of technologies for capturing carbon dioxide (CO₂) emitted from power plants, refineries, and factories instead of releasing it into the atmosphere. The captured CO₂ is then injected deep into the ground at a carefully selected and safe site, where it is stored. The CCS is a climate change technology that can achieve significant CO₂ emission reductions thereby reducing greenhouse gas emissions which is key to the realization of a carbon neutral society in 2050.

“K” LINE is actively promoting CCS-related businesses. In the demonstration test of an onboard CO₂ capture system, “K” LINE successfully separated and captured CO₂ from the exhaust gas emitted from the vessel for the first time in the world. The result of the demonstration was achieved with the planned performance. (Note 1) In addition, “K” LINE is participating the demonstration project on CO₂ ship transportation by New Energy and Industrial Technology Development Organization (NEDO) and conducting research and development that will contribute to the long-distance and large-scale transportation of CO₂ in the future. The liquefied CO₂ carrier for the demonstration test is being built as the world's first demonstration vessel for the CCUS project, and “K” LINE is participating in the development of CO₂ shipping technology by utilizing our technology and knowledge of safe operation and safe cargo handling of liquefied gas carriers which we have cultivated over many years. (Note2)

GCCSI was established by the Australian government in 2009 to promote the use of CCS technology worldwide, and currently has members from all over the world, including government, industries, and research organizations. GCCSI conducts surveys on the latest trends in CCS business and technology and holds subcommittee meetings to discuss the launch of international CCS projects in the future.

“K” LINE will keep abreast of the international CCS development and will accelerate its consideration of participation in CCS related business by joining GCCSI. We will continue to contribute to the realization of a carbon neutral society based on the “K” LINE Environmental Vision 2050 (Note 3).

【Global CCS Institute Outline】



The Global CCS Institute is an international think tank whose mission is to accelerate the deployment of carbon capture and storage (CCS), a vital technology to tackle climate change and deliver climate neutrality and it promotes research, knowledge sharing and awareness raising on CCS related trends. The diverse international membership includes governments, global corporations, private companies, research bodies and non-governmental organizations.

<https://www.globalccsinstitute.com/>

<References>

(Note 1)

August 5, 2021: World's first CO2 Capture Plant on vessel installed on Coal carrier "CORONA UTILITY" Launch of the "CC-OCEAN" Project demonstration

<https://www.kline.co.jp/en/news/csr/csr7601431474845700352/main/0/link/210805EN.pdf>

October 20, 2021: "K" LINE successfully separated and captured CO2 from exhaust gas in World's First CO2 Capture Plant on Vessel

<https://www.kline.co.jp/en/news/csr/csr818532238088767329/main/0/link/211020EN.pdf>

(Note 2)

June 22, 2021: Participation in R&D and demonstration project for CO2 marine transportation

https://www.kline.co.jp/en/news/Liquefied_gas/Liquefied_gas8511561127992992679/main/0/link/210622EN.pdf

February 2, 2022: NEDO Demonstration Project: The World's First Demonstration Test Ship for Liquefied CO2 Transportation to be Built

https://www.kline.co.jp/en/news/Liquefied_gas/Liquefied_gas-7680599579843084358/main/0/link/220202EN.pdf

(Note 3) "K" LINE Environmental Vision 2050 "Blue Seas For the Future"

The long-term environmental guidelines established in 2015. We revised it in November 2021, and we set a new 2050 target "Challenge to achieve net zero GHG emissions.

<https://www.kline.co.jp/en/csr/environment/management.html#002>