

PRESS RELEASE

22 December 2022

Participating in a Scotland to Rotterdam LOHC-MCH Hydrogen Highway Project

Chiyoda Corporation (Chiyoda) is pleased to announce that it is participating in a hydrogen marine transportation project (LHyTS^{*1} project) to export hydrogen from Scotland to Rotterdam. The LHyTS project aims to demonstrate an industrial-scale international hydrogen supply chain, utilizing MCH^{*2} as the liquid organic hydrogen carrier (LOHC), selected following comparative examination of alternative hydrogen carriers in a previous phase.

The LHyTS project is run by a diverse international consortium of 10 companies and governments, including the Net Zero Technology Centre^{*3}, ERM, Axens, EnQuest, Koole Terminals, Port Authority of Rotterdam, the Scottish Government, Shetland Islands Council, Storegga and Chiyoda. The partners will conduct feasibility studies for construction of a pilot project as a forerunner to developing the hydrogen chain from Scotland to Rotterdam.

The Scottish government's hydrogen strategy includes the production of 5 GW (approximately 0.45 million tons/year) of low-carbon hydrogen by 2030 and 25 GW (approximately 2.25 million tons/year) by 2045, and the investigation of options to export hydrogen to the rest of UK and Europe. The European Commission has set a goal of importing 10 million tons of hydrogen across Europe by 2030. As a core energy port in Europe, the Port of Rotterdam has created a goal of becoming Europe's premier hydrogen hub, with extensive import, export and storage infrastructure, an established energy industry supply chain and pipeline connections to industrial clusters in Northwest Europe.

Chiyoda is further accelerating the expansion of its hydrogen supply chain business, contributing to energy transformation and long-term CO₂ emission reductions across Europe.

[Please click here for the press release released by NZTC](#)

^{*1} LOHC for Hydrogen Transport from Scotland

^{*2} Methyl cyclohexane
A liquid at ambient temperature and pressure produced from toluene and hydrogen. Widely used as a pharmaceutical agent, as a solvent for agricultural production, an admixture for jet-fuel and a solvent for correction liquid etc.

^{*3} Established in 2017 with funding from the UK and Scottish governments, advocating decarbonization of the North Sea oil and gas industry and accelerating its development and deployment through joint investment and support in technologies that contribute to the net zero energy industry.

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