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A rendering of Aker Carbon Capture's modular technology Just Catch Offshore CCS system. Photo: Aker Carbon Capture

Huge increase in planned carbon capture projects as shipping rushes to respond to potential demand

Policy shifts see increase in CCS and CO₂ shipping

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By [Craig Eason](#) in [Stockholm](#)

There has been a 57% increase in the capacity of planned carbon capture and storage projects, according to a new report, bringing the total operational and planned storage capacity to well over 300m tonnes per annum, compared to under 200 mtpa a year ago.

The Global CCS Institute's annual status report shows there are now 361 facilities around the world under construction or development.



Frontrunners needed to push European CO₂ capture to 50 million tonnes by 2030

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However, the number of operational facilities remains low at 41. The report highlights the growing need for increased capacity for supply networks, including shipping of liquified CO₂.

The report notes that as “CO₂ networks gain momentum, CO₂ transport mechanisms are developing and maturing, including technologies for shipping liquefied CO₂. Shipping companies are actively expanding their services into the shipping of LCO₂”.

It lists a growing number of planned storage projects in Norway, Europe and Japan that will demand the use of shipping to transport volumes of liquified CO₂ from emitters to storage.

It also lists a growing number of orders and design approvals for CO₂ carriers by companies such as K Line, Knutsen NYK Carbon Carriers, Mitsui OSK Lines and Greece's Capital Maritime Group

The report identifies an increased appetite for using CO₂ capture and storage by nations to meet their Paris Agreement targets and how financing prospects have significantly improved as policy support has increased. [\(Copyright\)](#)

[Gas](#) [Carbon capture](#) [CO₂ carriers](#)

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