Energy Storage Liquid Cargo Containment System

What is a cargo containment system?

The cargo containment system is developed based on the onshore LNG storage tank technology,which minimizes the dimensions of the hull and the primary panel. The primary and secondary panels are made of 1.5mm thick 304L stainless steel with grooved ribs,and polyurethane foam is used for insulation.

Could a large-scale liquid hydrogen cargo containment system pave the way?

A collaboration between CB&I and Shell,with close support from DNV,has led to the Approval in Principle (AiP) of a large-scale,liquid hydrogen (LH2) cargo containment system. This could pave the way for an expansion of global hydrogen supply chains in the future.

How can land-based liquid hydrogen storage help shipping achieve higher standards?

Utilizing technological expertisefrom the global leader in land-based liquid hydrogen storage can help shipping to achieve higher standards in liquid hydrogen transportation. "CB&I's LH 2 cargo containment system for LH 2 carriers is based on our technology for large-scale onshore LH 2 storage," explains David Creech,Director,R&D at CB&I.

Which containment system is best for liquefied natural gas carriers?

ANE TANKSCurrently,membrane tanksare the most popular containment system for liquefied natural gas carriers. Membrane tanks are desirable for ther liquefied gases due to their ability to maximize the use of the available cargo space available on a ship. These tanks co

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Key objectives include: Safe, cost and energy efficient storage and transportation of large LH2 quantities over long distances Develop an LH2 cargo containment system (CCS) for use in shipping that ...

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This study analyzes the economics of combined cargo containment systems and boil-off hydrogen (BOH) handling systems for large-scale liquid hydrogen (LH2) transportation. In large-scale ...

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The shipbuilding industry is increasingly exploring new technologies for the transportation and storage of

liquid hydrogen (LH2) to support the transition to a sustainable green economy. ...

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