

GTT and HD HHI aim to optimise LNG carrier performance

South Korean shipbuilder HD Hyundai Heavy Industries (HD HHI) inks two agreements with French LNG specialist Gaztransport & Technigaz (GTT).

June 18, 2025

Katherine Si, China Correspondent



Credit: GTT

The two agreements between [GTT](#) and HD HHI are aimed at optimising the performance of LNG carriers.

The two new joint development projects (JDPs) will improve membrane-tank integration to enhance onboard ergonomics and LNG carriers' operational performance.

"Our combined expertise allows us to innovate and refine vessels for optimal energy efficiency and enhance ergonomics, streamlining the supply chain just as demand for LNG carriers continues to grow," commented Ryu Hong-Ryeul, Head of the Technology Division at HHI.

One of the projects will focus on convergent trapezoidal cargo tank No. 1, i.e., the first (forward) LNG storage tank on an LNG carrier fitted with GTT's Mark III membrane system.

The French company said, in a statement, that this geometry, dubbed pioneering, will allow a better adjustment of the hull compared with conventional constant-section tanks. In turn, this is anticipated to optimise cargo capacity.

The second project will focus on an "innovative" flush deck liquid dome design, located at the interface between the membrane tank and the cryogenic piping. GTT claims this

concept improves trunk-deck ergonomics, simplifies on-board piping, and simplifies maintenance.

“These two new joint development projects undertaken with HHI testify to our shared ambition to design pragmatic innovations aligned with the environmental, economic and technical requirements of liquefied natural gas maritime transport,” commented Philippe Berterottière, Chairman and CEO of GTT.