

GTT secures DNV Approval in Principle for 1 barg membrane tanks on LNG-powered vessels

- *Having demonstrated the safety equivalence of its reinforced design, GTT now offers its Mark III membrane technology at an effective pressure of 1 barg, above the current 0.7 barg standard, giving operators greater operational flexibility.*
- *Combined with the outstanding insulation performance of the Mark III membrane technology, the 1 barg tank design pressure will enable LNG dual-fuel vessels to comply with future port regulations requiring cold ironing at quayside.*

Paris, 3 June 2025 – GTT announces that it has received an Approval in Principle (AiP) from DNV for its membrane tank design rated for 1 barg¹, suitable for LNG² dual-fuel vessels.

This approval extends the operating range of the Mark III technology, following the DNV's AiP for a 2 barg design pressure on smaller-capacity tanks, notably suited to cruise-ships.

It offers ship-owners several key benefits, including:

- **Extended pressure-holding time**

Increasing the design pressure significantly lengthens the time before the tank reaches its maximum pressure, greatly reducing the need to burn boil-off gas during periods of low engine load.

- **Warmer-temperature bunkering**

Vessels fitted with these tanks can load LNG at warmer temperatures, giving operators access to a broader range of LNG suppliers.

- **Cold-ironing compliance**

The enhanced pressure capacity will enable LNG-powered vessels to comply with upcoming cold ironing regulations at the quayside (e.g., under the AFIR directive³) without compromising tank integrity, enhancing environmental performance while optimising LNG consumption and supporting compliance with emerging carbon intensity standards.

DNV's AiP confirms that GTT's 1 barg solution achieves safety equivalence with conventional atmospheric-pressure tank designs. The approval is based on a comprehensive evaluation of

¹ Unit of measurement, abbreviation of 'bar gauge', meaning 1 bar above atmospheric pressure.

² Liquefied Natural Gas

³ The Alternative Fuels Infrastructures Regulations

containment integrity, fuel gas handling systems, tank domes, and hull structure under elevated pressure scenarios.

Philippe Berterottière, Chairman and CEO of GTT, declared: *"We are pleased to secure DNV's Approval in Principle. This innovation underlines our commitment to delivering practical, future-proof solutions that enhance operational flexibility, reduce emissions and support ship-owners in meeting evolving environmental regulations."*

Martin Cartwright, Global Business Director, Gas Carriers at DNV, stated: *"We are thrilled to be working with GTT on this project and to award this AiP for this membrane tank development. This represents a significant step in enhancing LNG tank flexibility to meet evolving regulatory demands and is a good example of how technical advancement and regulatory foresight can go hand in hand to support the maritime energy transition. We look forward to continued collaboration."*

About GTT

GTT is a technology and engineering group with expertise in the design and development of cryogenic membrane containment systems for use in the transport and storage of liquefied gases. Over the past 60 years, the GTT Group has designed and developed, to the highest standards of excellence, some of the most innovative technologies used in LNG carriers, floating terminals, onshore storage tanks and multi-gas carriers. As part of its commitment to building a sustainable world, GTT develops new solutions designed to support ship-owners and energy providers in their journey towards a decarbonised future. As such, the Group offers systems designed to enable commercial vessels to use LNG as fuel, develops cutting-edge digital solutions to enhance vessels' economic and environmental performance, and actively pursues innovation in the field of low-carbon solutions.

GTT is listed on Euronext Paris, Compartment A (ISIN FR0011726835 Euronext Paris: GTT) and is notably included in the CAC Next 20, SBF 120, Stoxx Europe 600 and MSCI Small Cap indices.

For more information, visit www.gtt.fr

Media contact: press@gtt.fr / +33 (0)1 30 23 20 43

Investor relations contact: information-financiere@gtt.fr / + 33 (0)1 30 23 20 87

About DNV

DNV is an independent assurance and risk management provider, operating in more than 100 countries. Through its broad experience and deep expertise DNV advances safety and sustainable performance, sets industry standards, and inspires and invents solutions.

Whether assessing a new ship design, qualifying technology for a floating wind farm, analyzing sensor data from a gas pipeline or certifying a food company's supply chain, DNV enables its customers and their stakeholders to manage technological and regulatory complexity with confidence.

Driven by its purpose, to safeguard life, property, and the environment, DNV helps its customers seize opportunities and tackle the risks arising from global transformations. DNV is a trusted voice for many of the world's most successful and forward-thinking companies.