

**A new innovation from GTT: a more environmentally friendly  
“Ballast-Water-Free” LNG Bunker & Feeder vessel concept**  
- Approval in Principle (AiP) from CCS and DNV -

**Paris – July 8<sup>th</sup>, 2021.** GTT announces that it has obtained, with its partner Hudong Zhonghua Shipbuilding Group Co. (HZ), a double Approval in Principle (AiP), from the classification Society China Classification Society (CCS) and DNV, for the “Ballast-Water-Free” LNG Bunker & Feeder vessel concept.

The received AiPs recognize the compliance of this “Ballast-Water-Free” vessel design with the rules and codes relating to ocean-going vessels, their construction and equipment.

The “Ballast-Water-Free” design fitted with GTT’s membrane system enables the construction of more economical and environmentally friendly vessels.

The majority of merchant vessels worldwide uses ballast water when the bunkers are empty or partially loaded in order to maintain seaworthy conditions. Therefore, a considerable quantity of ballast water is carried by ships every day. Even when ballast water is treated, there is a risk of transferring harmful aquatic organisms and pathogens from one area to another. The solution developed by GTT eliminates this risk completely. In addition, removing the ballast water treatment system also reduces the energy consumption and CO<sub>2</sub> footprint of the vessels.

A ballast-free vessel also offers advantages in terms of investment and operational cost, simplification of vessel operation, reduction of corrosion and prolongation of lifetime. An extensive test campaign in the hull test tank has demonstrated the good sailing and seakeeping capabilities of the design.

**Philippe Berterottière, Chairman and CEO of GTT**, said: *“This major technological innovation to improve both the environmental and economic performance of LNG Bunker & Feeder vessel has been made possible thanks to the support of our partner Hudong Zhonghua. We welcome the approvals of CCS and DNV, which allow us to offer our ship-owners and charterers customers a high-value technology solution. GTT once again demonstrates its ability to innovate in order to make vessels ever more environmentally friendly and in line with the environmental guidelines of the maritime industry.”*



*“Ballast-Water-Free” LNG Bunker & Feeder vessel design*

#### **About GTT**

GTT is a technological expert in containment systems with cryogenic membranes used to transport and store liquefied gases. For over 50 years, GTT has been designing and providing cutting-edge technologies for a better energy performance, which combine operational efficiency and safety, to equip LNG carriers, floating terminals, land storage, and multi-gas carriers. GTT also develops systems dedicated to the use of LNG as fuel, as well as a full range of services, including digital services in the field of Smart Shipping. The Group is also active in hydrogen through its subsidiary Elogen, which designs and assembles electrolysers notably for the production of green hydrogen.

GTT is listed on Euronext Paris, Compartment A (ISIN FR0011726835 Euronext Paris: GTT) and is notably included in SBF 120 and MSCI Small Cap indices.

For more information, visit [www.gtt.fr](http://www.gtt.fr).

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