



Enabling Efficient Storage
& Transportation of Energy



Norwegian seminar – Gastech 2023

September 6, 2023 - Gastech Exhibition in Singapore

What we do

- **LNT Marine** is a technology and service provider specialized within **liquefied gas tanks** and **cryogenic insulation**.
- We develop technology and provide **design & engineering**, **supervision** and **support** as well as **contracting services**.

Business segments

CARGO CONTAINMENT



LNG + NH3 FUEL



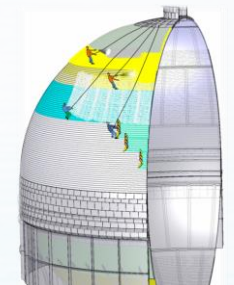
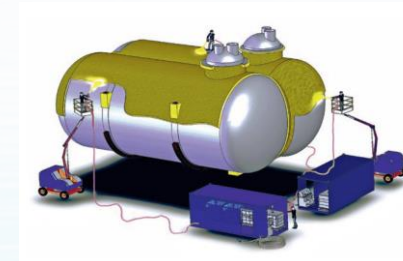
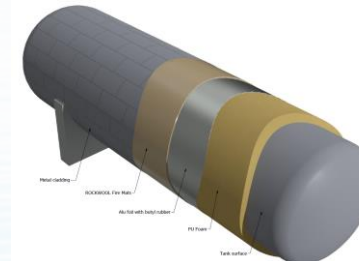
GAS CARRIER INSULATION



Repair services

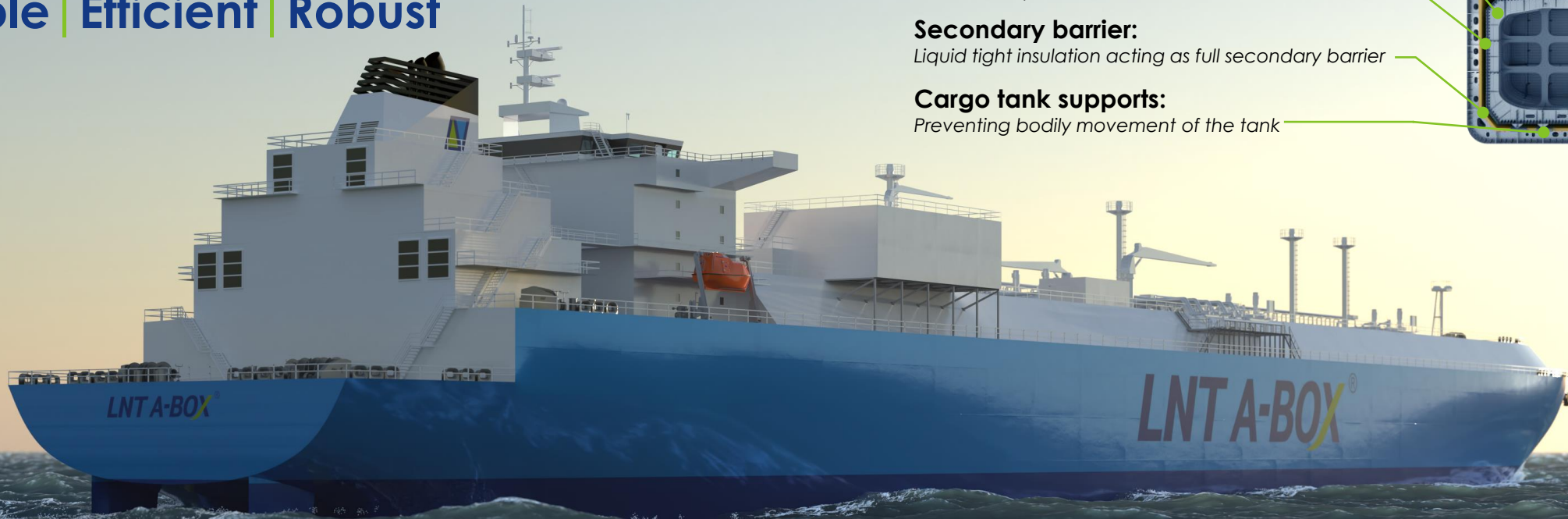


Products & services



LNT A-BOX[®]

Flexible | Efficient | Robust



Primary barrier:

Self-supporting IMO independent tank type A

Interbarrier space:

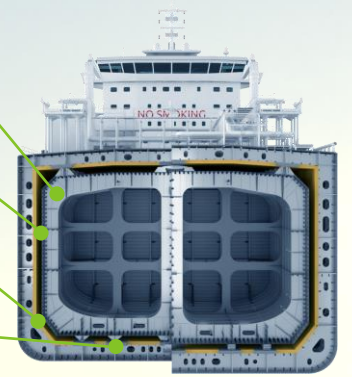
Accessible space between tank and insulation

Secondary barrier:

Liquid tight insulation acting as full secondary barrier

Cargo tank supports:

Preventing bodily movement of the tank



Building capacity & costs



Flexibility & efficiency



LNG

NH₃



LPG



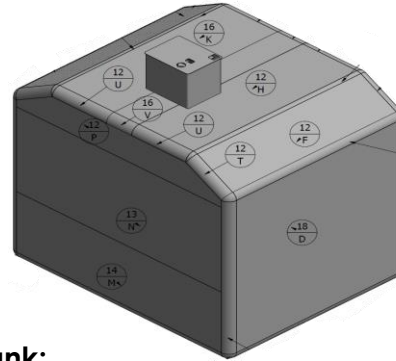
Robust & safe



LNT Fuel-BOX™

- Offers a unique and safe solution for NH₃

- **Prismatic fuel tank** suitable for **ammonia** offering **high volume utilization** and **reasonable weight**.
- Due to its unique arrangement with the **insulation** outside the secondary barrier, the system **does not have compatibility issues with NH₃**
- With an independent secondary barrier, the **inner hull** can be built in **normal shipbuilding steel**.
- With the secondary barrier in a **cold interbarrier space** a potential leak would not generate rapid vaporization and **offers a more manageable vent handling requirement**.
- LNT Fuel-BOX is **approved as a fuel tank** in compliance with the **IMO IGF Code** by **major classification societies**.



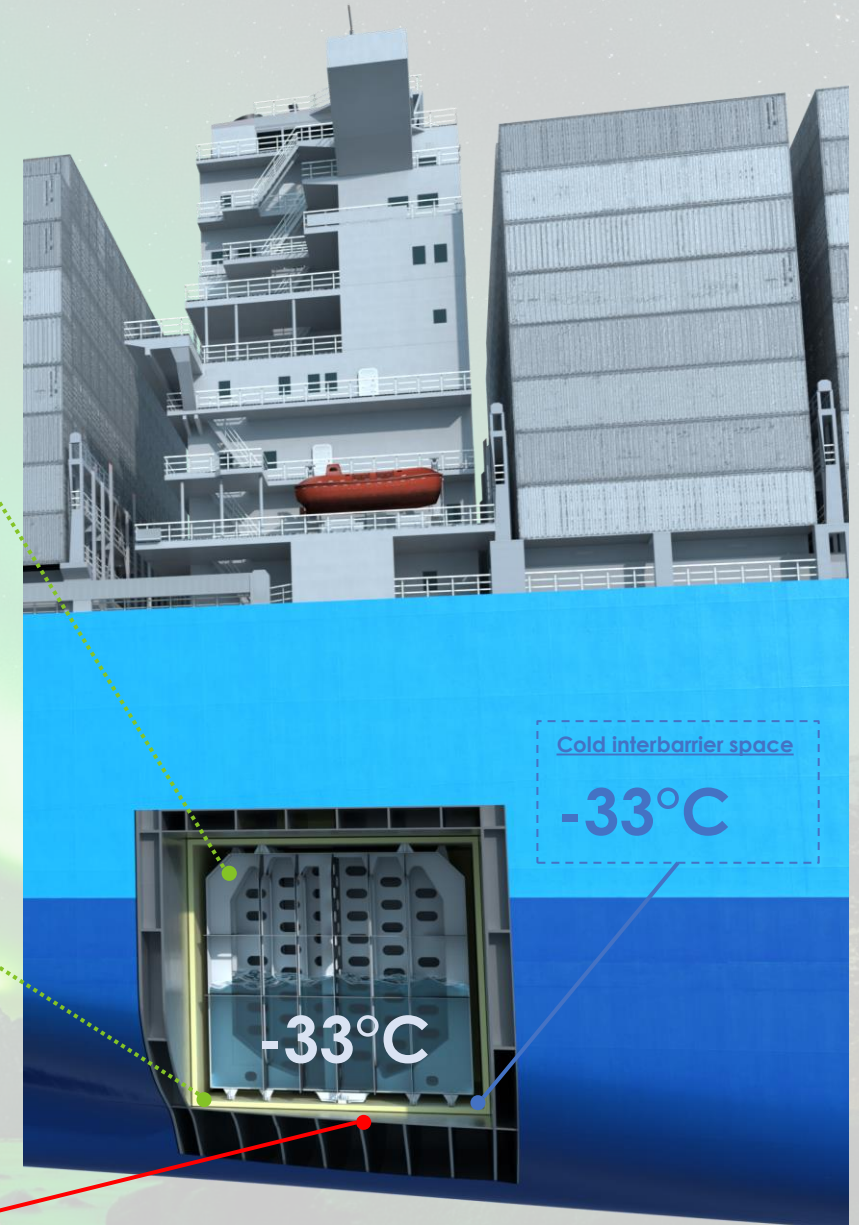
Fuel tank:

- IMO independent tank type A
- Made from carbon manganese steel



Insulation & secondary barrier system:

- Single layer of PU foam panels
- Reinforced aluminum secondary barrier



Normal shipbuilding steel