

LNG INSIGHTS / *by GTT*

Understand, monitor and optimise LNG operations

A suite of digital solutions designed to support LNG cargo operations, combining real-time monitoring, operational guidance and advanced analytics across the voyage.



Real-Time Control And Optimisation of LNG Operations

Built on decades of GTT expertise in LNG containment systems, LNG Insights provides solutions designed for vessels equipped with GTT membrane systems, including Mark III and NO96, helping operators optimise cargo performance, reduce losses and improve operational decision-making.

LNG Advisor

Capabilities

- **Cargo monitoring & real-time guidance:** Monitor LNG cargo parameters and provide operational guidance.
- **Heel management:** Optimise heel strategy to maximise delivered cargo.

Benefits

- **Improved boil-off management:** Minimise unnecessary boil-off.
- **Better operational decision-making:** Enable timely, data-driven decisions.
- **Increased operational confidence:** Support crews with actionable guidance.

Sloshield™

Capabilities

- **Real-time sloshing monitoring:** Track sloshing activity in each tank.
- **Onboard visualisation and alerts:** Provide actionable information directly on the bridge.
- **Sloshing risk mitigation:** Help crews reduce resonance and operational impact.

Benefits

- **Safer LNG operations:** Reduce sloshing-related risks and cargo instability.
- **Protection of cargo performance:** Limit boil-off linked to excessive sloshing.
- **Improved onboard awareness:** Enable faster response to changing tank behaviour.

LNG Route

Capabilities

- **Route and cargo optimisation:** Optimise voyage routing and LNG cargo management together.
- **Dynamic voyage re-optimisation:** Continuously adapt plans using voyage, weather and onboard data.
- **Integrated weather and cargo planning:** Combine route safety and cargo value considerations in a single workflow.

Benefits

- **Higher delivered cargo value:** Maximise cargo value from departure to discharge.
- **Reduced BOG losses and operational risk:** Improve cargo forecasts and voyage decisions.
- **Faster ship-to-shore decision-making:** Accelerate operational decisions with unified planning insights.

LNG Cargo & Fuel Analytics

Capabilities

- **LNG cargo monitoring & boil-off analysis:** Track cargo parameters and boil-off behaviour.
- **LNG thermodynamics and ageing analysis:** Assess cargo properties and predict evolution.
- **Boil-off and reliquefaction insights:** Analyse system performance and efficiency.
- **LNG reporting and charter party assessment:** Track commercial performance using LNG-specific data.
- **Fuel gas monitoring and bunkering insights:** Monitor LNG fuel usage and bunkering operations.

Benefits

- **Enhanced visibility into LNG behaviour:** Gain a clear understanding of cargo and fuel dynamics.
- **Improved operational efficiency:** Optimise LNG management across the voyage.
- **Better commercial performance:** Support cargo value preservation and reporting accuracy.

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