GTT North America

LNG as Alternative Fuel

SeatradeCruiseGlobal

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Fort Lauderdale/Broward County Convention Center | Fort Lauderdale, FL USA

Safety | Excellence | Innovation | Teamwork | Transparency

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GTT in brief

- A **leading engineering company** with more than **50 years of experience** in the design of Membrane Cargo Containment Systems

- GTT is a public company listed on the Euronext Stock Exchange (Paris)

- **96 projects** [(1)] (LNGC/VLEC, FSRU/RV, FLNG, bunker barge, and GST onshore) on order

- Around **360 highly qualified people** [(1)] present worldwide

(1) *As at December 31, 2016*

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1 THE DRIVERS

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LNG as Fuel : ENVIRONMENTAL BENEFITS

- **LNG is SAFE**
  - Strong Safety Record
  - Safeguard System Design
- **LNG is RELIABLE & SECURE**
  - Proven Technology
  - Abundant Reserves (North America, Russia, Africa, ME, etc)
- **LNG is green**
  - No particulates, No SoX, almost No NoX, Reduced CO2
  - In the US power industry in 2015, natural gas consumption was 81% higher than coal, & their emissions were nearly equal [EIA]

- **Rules & Standards (IGF code, US CFR & Policy letters)**
- **Industry is ready & transition to LNG has started (100 in services and 101 on order LNG fuelled vessels)**

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LNG as Fuel: REGULATORY COMPLIANCE Driven by ECA

Regulations imposing sulfur limits according to Annex VI by MARPOL

Source : University of Strathclyde

- **20% of the cruise ship fleet is exposed to current ECA-SOx (North America & Baltic Sea).**
- **Much higher % will be exposed with future extents of ECA-SOx:**
  - MEPC 70 decided to keep its global 0.50% SOx limit in **2020**.
- **Future ECA-NOx will be even more in favor of « LNG as a fuel ».**

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2 LNG: Fuel for CRUISE

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CRUISE OPERATORS ARE ADOPTING LNG

Carnival Corporation Signs Agreement with Shell to Fuel World's First LNG-Powered Cruise Ships English

PR Newswire, October 3, 2016

13 of 73 Cruise Ships on Order are LNG-Powered

Cruise Industry News

World Maritime News

Carnival Corporation to Build Three New LNG-Powered Cruise Ships with Meyer Werft and Meyer Turku

Posted Sep 06,2016

Royal Caribbean Orders Pair of Icon-Class LNG and Fuel Cell Powered Ships

October 10, 2016 *Cruise Industry News*

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LNG in Cruise: GTT initiatives

- **Infrastructure**
  - **Make the LNG become a commodity**
    - GTT technology is used for **the first US LNG bunker barge** in Jacksonville
    - GTT is developing a standard bunkering barge **LeaNG** to drastically **reduce** the **logistic cost** of LNG.
  - **Compatibility** between bunker facilities and Cruise ships
    - Organization of HAZID Workshops

- **Network**
  - **Design developments:** DELTAMARIN & TECHNOLOG
  - **Outfitters:** developing worldwide network of industrial partners for tank erections
  - **FGHS:** developing worldwide partnership with key equipment & module suppliers
  - GTT is in discussion with the main Port Authorities, in current and future ECA
  - GTT is member of **SEA\LNG**, and leading member of the **SGMF**
- **Safety & Shipowners support**
  - **BOG Management**
  - **Safe Return to Port**
  - **SIMOPS:** discussion about bunkering with transit of passengers
  - Maintenance, Dry-dock, 24/7 hotline support
  - **Training** of technical crews

GTT Training

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Case study: Generic Cruise Ship

- Type C tanks 2 x 700 m³
- Membrane tank 1 x 1680 m³
- Membrane tanks 2 x 780 m³

No impact on DECK 4

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Infrastructure and safety: propose affordable bunkering solutions

- **Supply means will drastically impact the final price of LNG on board**

Capitalize on solutions under construction

3-D rendering of 2,200 m³ LNG Bunker Barge

And develop future infrastructure

Flexible solutions of onshore tanks

4.8K LNG ATB Barge for US market

LeaNG to standardize the market

- **LNG Tank Volume: 5k to 10k m³**
- **Length 71.3m**
- **Breadth moulded 20.7m**
- **Draught 3.5m**

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3 FEEDBACK ON US LNG BUNKER BARGE

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FIRST LNG Bunker Barge to Facilitate Initial Supply

Courtesy of TOTE

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Barge under construction

Pictures : courtesy of CONRAD SHIPYARD

Tank successfully completed!

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Development of Training Program and Barge Simulator

Training Program Objectives

- Ensure all personnel that will operate the barge are certified in accordance with USCG requirements
- Ensure appropriate personnel (barge, tug and shore based) have a detailed understanding of the barge, its operation and equipment
- Ensure personnel are competent to undertake all the operations that may be conducted with the barge, both now and in the future, with full regard to the safety of personnel and the surrounding environment

Multi purpose Built Barge Simulator

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Thank you for your attention

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