



FSRU Project Development and Operation

13 - 24 Oct 2024
Istanbul (Turkey)



FSRU Project Development and Operation

Ref.: 15134_271781 **Date:** 13 - 24 Oct 2024 **Location:** Istanbul (Turkey) **Fees:** 9000 **Euro**

Course Content:

Introduction

The course offers a thorough analysis of the FSRU sector, covering many technical, project-specific, and business concerns related to the usage of FSRU regasification units.

Targeted Groups

- Technical, commercial, and management employees who need an in-depth technical knowledge of the LNG business and FSRU development.
- New technical support personnel entering the sector
- Technical personnel who want to learn more about the sector

Unit 1: Introduction to LNG - what is LNG:

Some key facts about LNG, including physical properties, rich and lean LNG, composition ranges, safety, and flammability.

Unit 2: LNG Global Trade and alternative Commercial Models:

- Global Gas and LNG Trade
- Development of LNG Trade
- LNG Importing Countries
- The Global FSRU Fleet
- Gas Market Characteristics
- The LNG Contract Chain
- Sales and Purchase Agreements
- FSRU Chartering

Unit 3: Technical Fundamentals:

- LNG Properties and conversions
- Heating Values, Wobbe, Interchangeability, and market specifications

Unit 4: FSRU vs Land Based Import :

- CAPEX Schedule
- Permitting
- Port Restrictions Major

Unit 5: Major FSRU Technology Choices:

- Regas Technology Selection

- Boil-Off Gas Handling/ Reliquefaction
- LNG Pump Selection
- Topsides Layout Considerations

Unit 6: FSRU Cargo Containment Systems:

Overview of liquefaction systems membrane vs Moss vs SPB vs Type C

Unit 7: LNG Transfer

- Ship to Ship Transfer- side by side vs tandem
- Hard Arms vs Cryogenic Hoses
- HP Gas transfer vs hard arms and HP hoses
- Custody Transfer, Metering and measurement
- Small scale and bunkering

Unit 8: FSRU Mooring System Designs:

- Tower Yoke Systems
- Spread Mooring Offshore Island
- Jetty Mooring
- Gravity Based Regas structures

Unit 9: Marine Infrastructure Issues:

- Breakwater Design
- Port Dredging
- Tugs and Pilots FSRU Designs
- Newbuild vs Conversions
- Shipyard Selection
- Ship Designs AtlanticMax, Q-max, Q-flex
- Floating Storage FSU's
- Floating Regas FRU's
- Floating Gas to Power
- Niche FSRU Applications

Unit 10: FSRU Construction & Constructability:

- Long Lead Item Delivery
- Typical Conversion Schedule
- Typical Newbuild Schedule

Unit 11: FSRU CAPEX and OPEX:

- Factors Influencing CAPEX and OPEX
- Typical OPEX Elements

Unit 12: FSRU Site Selection Considerations:

- Metocean Water Depth



Istanbul - Turkey: +90 539 599 12 06

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- Water Temperature
- Environmental Regulations

Unit 13: Introduction to LNG Safety:

- Historical Incidents and Lessons learned - material selection, layout, stratification, rapid phase transition, other Safety in Design Safety Code requirements
- Introduction to Permitting and Environmental



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**Registration form on the :
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