

# The Floating Liquefied Natural Gas (FLNG) Market 2013-2023

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# Abstracts

Floating Liquefied Natural Gas (FLNG) is composed of two segments: Floating Storage and Regasification Units (FSRUs) and LNG Floating Production Storage and Offloading Vessels (LNG FPSOs). The second segment is often referred to as the production side of the FLNG market.

Traditionally, LNG facilities have been built onshore, but this has become increasingly expensive in recent years, leading to the development of more cost effective solutions. Since 2005, Excelerate Energy, Golar LNG and H?egh LNG have taken ownership of FSRUs, and there are currently units operational in Europe, North America, South America, South East Asia and the Middle East. The introduction of further FSRUs will continue throughout the world, but particularly in areas where there are, at present, major gas shortfalls (e.g. India, Pakistan and Bangladesh). Strong, consistent CAPEX is expected throughout.

Floating liquefaction has been proposed as an economical solution to monetising stranded and associated gas, as well as a solution for the processing and liquefaction of onshore natural gas supplies. The latter proposal has arisen in answer to escalating onshore liquefaction costs and environmental, land use and royalty issues faced by onshore terminals. As of 2013, there are no floating liquefaction plants in operation, though Shell and Petronas have taken final investment decisions on projects for Australia and Malaysia. There is also a 0.5 million tonnes per annum floating liquefaction, regasification, storage and offloading vessel (FLRSU) approved for construction to be based offshore Colombia.

Despite only three vessels having received their final investment decisions, there are also a large number of designs at different stages of project development and visiongain



anticipates a number of final investment decisions will be taken over the next three years. The technical intricacies of constructing FLNG production facilities will ensure a build time of between three and five years depending on the design. There are more limitations on the LNG FPSO segment because of the unproven nature of the technology, high CAPEX and doubts about scalability. But assertions about the viability of the concept, from some of the most reputable companies in the oil and gas industry, represent an offer of assurance about the future.

Visiongain has determined that the value of the FLNG market in 2013 will reach \$9.5bn.

#### What makes this report unique?

Visiongain consulted widely with industry experts and full transcripts from these exclusive interviews are included in the report. As such, the report has a unique blend of primary and secondary sources providing informed opinion. The report provides insight into key drivers and restraints behind the FLNG market, while also identifying current projects and future growth areas. The report also provides a unique blend of qualitative analysis combined with extensive quantitative data including global, submarket and national market forecasts from 2013-2023 - all highlighting key business opportunities.

#### Why you should buy The Floating Liquefied Natural Gas (FLNG) Market 2013-2023

- 209 pages of comprehensive analysis
- 2 Exclusive Visiongain interviews with experts from Marsh

Linde

161 tables, charts, and graphs

Global FLNG market forecasts between 2013-2023

2 Sub-Market Forecasts for 2013-2023: LNG FPSOs

FSRUs



#### 8 Regional Forecasts for 2013-2023: Australasia

South East Asia

North America and the Caribbean

Middle East

South America

Europe

Asia

Africa

5 Leading National Market Forecasts for 2013-2023: Australia

Papua New Guinea

Brazil

Indonesia

Malaysia

Within the regional market forecasts, analysis is conducted regarding the future outlook for FLNG in 31 different countries.

48 detailed tables of significant contracts, projects & programmes

A PEST analysis

3 leading companies (for FSRUs) and 2 leading groupings of companies (for LNG FPSOs) identified and profiled -



H?egh LNG

Golar LNG

**Excelerate Energy** 

Shell and Associates

Associates include: Samsung Heavy Industries (SHI) and Technip

Daewoo Shipbuilding and Marine Engineering (DSME) and Associates

Associates include: H?egh LNG, Petronas, KBR

#### You can order this report today

Gain an understanding of how to tap into the potential of this market by ordering The Floating Liquefied Natural Gas Market 2013-2023



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