

Floating LNG Market Overview with 24% CAGR Rise 2024-2031 - DataM Intelligence

The Floating LNG Market is projected to grow at a 24% CAGR from 2024 to 2031, driven by rising global energy demand and flexible offshore gas solutions.

AUSTIN, TX, UNITED STATES, May 27, 2025 /EINPresswire.com/ -- Floating LNG Market Outlook: 2025 and Beyond

The Global energy sector is evolving rapidly, with floating liquefied natural gas (FLNG) technology standing out as a pivotal advancement to address rising energy needs. Market Value and Growth



The [Floating LNG Market Size](#) is projected to grow at a compound annual growth rate (CAGR) of 24% during the forecast period from 2024 to 2031.

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The U.S. Floating LNG market is gaining momentum, driven by offshore gas exploration and export demand projected to see strong growth through 2031 with advanced FLNG deployments.”

DataM Intelligence

The floating LNG market has seen significant traction over recent years and is expected to witness steady growth through 2025 and beyond. With increasing global energy demand, particularly in emerging economies, the need for flexible and scalable LNG solutions is more critical than ever.

The market value is projected to grow substantially due to the rising global consumption of natural gas and the increasing preference for cleaner energy sources. As of 2025, the market is positioned at a healthy valuation and is forecast to expand at a robust compound annual growth

rate (CAGR). This growth is underpinned by rising investments in offshore gas projects, increasing adoption of FLNG in remote marine gas fields, and the cost advantages of FLNG

operations over traditional onshore LNG facilities.

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Regional Outlook

Asia-Pacific

Asia-Pacific continues to dominate the floating LNG market. Countries such as China, South Korea, and India are driving demand, largely due to their rising industrial energy consumption and government initiatives focused on cleaner energy transitions. The growing population, urbanization, and industrial expansion in these regions create a fertile environment for FLNG investments.

North America

North America is showing strong momentum, especially with technological innovations in offshore drilling and LNG processing. The Gulf of Mexico remains a strategic site for FLNG projects, supported by the availability of gas reserves and the presence of experienced industry players. The region is also experiencing a push to export LNG to other parts of the world, bolstering the need for flexible solutions like FLNG.

Middle East & Africa

The Middle East and Africa, rich in natural gas resources, are slowly embracing FLNG to overcome infrastructure limitations. FLNG allows countries like Mozambique and Nigeria to monetize offshore reserves without waiting for expensive onshore facilities. This is turning the tide in favor of smaller nations that previously lacked the capacity to export natural gas on a global scale.

Europe

Europe's focus on energy security and diversification is driving interest in FLNG as a means of reducing dependence on pipeline gas. As countries look to minimize reliance on traditional suppliers, floating LNG terminals offer rapid deployment and strategic flexibility.

Leading Companies

Several global companies are shaping the FLNG market landscape through technological innovation, strategic collaborations, and bold investments. Key players include:

Royal Dutch Shell

Hyundai Heavy Industries

Golar LNG

Samsung Heavy Industries

Petronas

Höegh LNG

Market Segmentation

By Terminal Type: Floating LNG Liquefaction Terminal, Floating LNG Import Terminal

By Capacity: Small Scale, Mid-Scale, Large Scale

By Region: North America, Europe, South America, Asia-Pacific, Middle East, and Africa

Latest Developments

Recent developments in the FLNG space include advancements in cryogenic technology, automation in LNG processing, and digital monitoring systems. The integration of AI-based maintenance tools and remote operations capabilities is making FLNG more sustainable and economically viable. Several joint ventures and long-term agreements between national energy firms and private players are being signed to launch new FLNG units in key offshore fields.

Latest News of USA

In 2025, the United States has seen a surge in FLNG-related activities along its Gulf Coast. A major American energy company recently announced the deployment of a mid-scale FLNG unit in the Gulf of Mexico, designed to process stranded gas fields that were previously unviable. This project is expected to start operations by late 2025 and will cater to growing LNG export demands from Latin America and Asia.

Additionally, environmental approvals were fast-tracked under a new energy infrastructure initiative, which promotes offshore energy development while ensuring environmental safeguards. The U.S. government is also funding R&D efforts in advanced liquefaction technologies, aiming to boost domestic manufacturing of FLNG components.

Latest News of Japan

Japan, a leading LNG importer, is shifting its focus towards floating LNG storage and regasification units (FSRUs) to strengthen energy security and increase supply chain flexibility. In early 2025, a Japanese consortium launched a new FSRU vessel stationed near a key import terminal in western Japan. This move is seen as a proactive strategy to diversify LNG supply sources in the wake of global geopolitical uncertainties.

Moreover, Japanese engineering firms are now partnering with Southeast Asian nations to develop mini-FLNG systems, which can be scaled according to regional demand. These partnerships reflect Japan's commitment to fostering regional energy cooperation and reducing dependence on a few large LNG suppliers.

Expert's Thoughts Of This Report:

The floating LNG market is poised for dynamic growth, offering unmatched flexibility and efficiency in meeting global energy needs. With growing emphasis on clean energy, FLNG has carved a niche for itself as a critical enabler of sustainable gas utilization. As the technology matures and investment flows increase, FLNG will play a central role in reshaping global LNG supply chains.

The latest developments in key regions like the USA and Japan show that countries are actively adopting FLNG to strengthen energy independence and strategic resilience. The market's outlook remains positive, driven by innovation, cost-effectiveness, and a pressing global demand for cleaner, more accessible energy solutions.

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