

Planned LNG Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Liquefaction, Regasification), By Application (Residential, Commercial, Industrial), By Region, By Competition, 2020-2030F

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Abstracts

Market Overview

The Global Planned LNG Market was valued at USD 54.1 billion in 2024 and is projected to reach USD 79.2 billion by 2030, registering a CAGR of 6.4% during the forecast period. The market is expanding rapidly due to increasing global energy demand and a strategic shift toward cleaner fuels. Liquefied Natural Gas (LNG), known for its lower carbon emissions compared to coal and oil, is being positioned as a critical transitional fuel amid global decarbonization goals. Countries across the Asia-Pacific region, including China, India, and Southeast Asian economies, are leading LNG demand due to rapid urbanization and industrialization. Simultaneously, declining domestic gas production in mature markets like Europe and Japan is driving substantial investments in LNG import terminals. The push for energy security, coupled with climate commitments under frameworks such as the Paris Agreement, is reshaping the global LNG infrastructure landscape.

Key Market Drivers

Rising Global Energy Demand and Clean Energy Transition

The increasing global demand for energy—particularly in fast-growing economies—is a key driver of planned LNG infrastructure development. Emerging countries such as China and India are accelerating their shift from coal and oil to cleaner energy sources,

with LNG emerging as a preferred option due to its reduced greenhouse gas emissions. As nations aim to meet climate targets and diversify their energy portfolios, LNG is being integrated into national energy strategies for both base load and peak power supply. Government-backed initiatives promoting cleaner fuel adoption are reinforcing this trend, making LNG a central component of the global clean energy transition.

Key Market Challenges

High Capital Investment and Long Project Development Timelines

A primary challenge in the planned LNG market lies in the high upfront costs and extended timelines required for project development. LNG terminals—whether for liquefaction or regasification—demand significant capital expenditure and involve intricate engineering, environmental permitting, and construction efforts. Projects often span 5 to 7 years before becoming operational, making them vulnerable to market risks such as energy price volatility, regulatory shifts, and geopolitical uncertainties. These factors can deter investor confidence and delay project execution, especially in regions with less stable economic environments or evolving energy policies.

Key Market Trends

Emergence of Floating LNG (FLNG) and Small-Scale LNG Solutions

A transformative trend in the planned LNG market is the increasing deployment of Floating LNG (FLNG) units and Small-Scale LNG (SSLNG) systems. FLNG technology enables offshore extraction, liquefaction, and export of natural gas, eliminating the need for costly onshore infrastructure. This approach offers faster deployment, reduced permitting complexity, and flexibility for remote or deepwater fields. Countries like Mozambique, Nigeria, and Indonesia are adopting FLNG solutions as part of their energy expansion plans. Similarly, SSLNG is gaining momentum for decentralized applications, serving remote communities, islands, and industrial users that are not connected to pipeline networks. These innovations are expanding market access and enhancing the flexibility of LNG supply chains.

Key Market Players

ExxonMobil

Royal Dutch Shell

Qatar Petroleum

Chevron Corporation

TotalEnergies

Cheniere Energy

PetroChina

Eni S.p.A.

Report Scope:

In this report, the Global Planned LNG Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Planned LNG Market, By Technology:

Liquefaction

Regasification

Planned LNG Market, By Application:

Residential

Commercial

Industrial

Planned LNG Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

South America

Brazil

Colombia

Argentina

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Planned LNG Market.

Available Customizations

Global Planned LNG Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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