

# **Australia Liquefied Natural Gas Market – Segmented By LNG Infrastructure (LNG Liquefaction Plants, LNG Regasification Facilities, and LNG Shipping), By Application (Transpiration Fuel, Power Generation, Others), By Mode of Supply (Trucks, Pipeline and Marine), By Region, Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F**

<https://marketpublishers.com/r/AFF99AE23E00EN.html>

Date: October 2023

Pages: 78

Price: US\$ 3,500.00 (Single User License)

ID: AFF99AE23E00EN

## **Abstracts**

Australia Liquefied Natural Gas Market is anticipated to grow at a steady pace in the forecast period 2024-2028 & growing at a solid CAGR in the forecast period. In the upcoming years, the market's expansion is projected to be fueled by the rising demand for electric power generated by renewable energy sources. During the next eight years, market growth is predicted to be aided by an increasing focus on projects involving distributed power & utilities.

A fossil fuel developed deep underneath the earth's crust is natural gas. Several substances are present in natural gas. The main component of natural gas is methane (CH<sub>4</sub>), a molecule with one carbon atom and four hydrogen atoms. Natural gas that has been chilled to a liquid form, at around -260° Fahrenheit (161° Celsius), for transportation and storage, is known as liquefied natural gas (LNG). Natural gas's volume in the liquid form is around 600 times less than that in the gaseous state. Natural gas may now be delivered to locations that pipelines are unable to reach. Liquid natural gas has several benefits, such as being energy-efficient, cleaner fuel, reducing emissions, and having a range of uses, such as fuel for home kitchen appliances, fuel for the fertiliser industry, and fuel for the transportation sector, among others.

### **Economic Feasibility of LNG**

**High cost of liquefaction:** The market for LNG has been constrained despite its potential for export because of the high cost of liquefaction and production.

**Losses:** During the liquefaction process, 10% to 25% of the gas's energy is lost.

**Costly Transport:** Energy-intensive operations include chilling, liquefaction, transport, post-transport regasification, and more.

### Impact on Liquefied Natural Gas (LNG) by Climate

**Emission:** According to one estimate, LNG produces approximately ten times as much emissions as piped gas, thus its quick development is capable of damaging climate goals.

**Risks of methane leakages:** The high emissions from LNG are also attributed to methane loss along the supply chain.

**Huge carbon equivalence:** Liquefied Natural Gas emits 50 times more carbon dioxide than wind power and 14 times more carbon dioxide than solar power when producing the same amount of electricity.

### Strong Demand in Asia Pacific Countries.

Between 2018 and 2023, more than 100 billion cubic metres of additional LNG supply capacity will be installed, with most of these increases coming from Australia and the United States. Mostly by Asian importers, this wave of additional liquefaction capacity has so far been absorbed without any indication of impending surplus. Its growth has been significantly influenced by markets, both slow-growing and fast-growing.

The Asia-Pacific regional market is replacing local, bilateral trading flows as the primary market for LNG trade. While the Asia-Pacific area is predicted to continue to have the majority of the world's LNG consumption, the trend towards more country diversity is projected to continue. To fulfil the rising demand coming from the Asian Pacific region, new and existing suppliers launched additional liquefaction projects in the United States and Australia regions.

### Growing Demands for LNG in the Country

The government's emphasis on using clean energy in the residential and commercial sectors to reduce the impacts of pollution nationwide is likely to increase the demand for natural gas in the upcoming years. Australia has recently made significant expenditures in the growth of its infrastructure. For instance, the recently finished T20 World Cup 2022 and the impending real estate Expo event are the country's biggest infrastructure developments at a time when demand for renewable energy is anticipated to increase nationwide. Innovation and teamwork are still key to the sector's success as Australia emerges as the country that exports the most LNG globally, with over USD 135 billion in new and ongoing projects. Furthermore, this is the first time in Australian history that a national plan has suggested making a long-term investment in smaller regions. These local expenditures are anticipated to have a significant influence on the nation's total income and capacity to remain competitive in the current smart market. Some of Australia's greatest metropolitan cities, including Karratha and Townsville, is expected to implement the concept. These cities have a combined population of more than four million, making the influence of innovation significant. The effort is expected to encompass both rural and nearby communities, in addition to metropolitan regions. Regional capital cities in Australia are expanding considerably more quickly than the country as a whole and more smart city elements are being implemented to improve the quality of life and promote sustainability through natural gas usage.

### Liquified Natural Gas Supply Outlook

Up to 2050, the expansion of LNG trade is anticipated to be fueled by the continued development in LNG demand in Asian nations. Global LNG export capacity was about 450 million tonnes annually by the end of 2020 (Mtpa). By the middle of the 2030s, previously authorized and under-construction projects will have increased worldwide capacity by 125 Mtpa. The top LNG exporters in 2020 were Australia and Qatar, who each accounted for around 22% of worldwide LNG shipments. For the last ten years, Australia's rivals have routinely made significant investment choices. Before 2012, Australia granted final investment decisions (FIDs) for LNG projects worth more than USD 200 billion. Since then, the only LNG capacity project to attain FID is Woodside's Scarborough project (in November 2021). Without more funding for upstream infrastructure and new LNG trains, Australia risked losing its position as a major LNG producer in the upcoming years.

### Factors Responsible for Australia to Remain a Major LNG Exporter:

#### Geographical Proximity to Asia

The Asian markets, which are expected to continue to fuel the rise of the LNG demand over the upcoming years, are very conveniently placed just outside Australia's doorstep. Australian LNG has maintained its share of the demand from long-standing clients including Japan and Korea and reaped major rewards from China's emergence as a big LNG importer. Australian LNG imports to China have increased five-fold over the past five years, becoming China Australia's largest LNG client. Australia benefits from sharing its regions with other emerging LNG importers including Bangladesh, India, and the ASEAN countries. Australia is in a good position to benefit from the opportunity presented by above-mentioned countries' development and demand for greener energy.

### Stable Investment Destination

Australian operations, environmental standards, taxation laws, and regulatory approval procedures for LNG plants, are all governed by well-established regulatory frameworks, gifted with top-notch natural gas resources as well. Because of its stability, Australia is a good place to invest in LNG. With the focus of international oil and gas companies shifting to smaller, incremental projects in established gas basins rather than the greenfield mega-projects that have characterised the past few decades, it's going to be essential to maintain and improve Australia's competitiveness as an investment destination as well as a stable regulatory and risk regime to see if Australia continues to attract investments.

### Market Segmentation

The Australia Liquified Natural Gas Market is divided into LNG Infrastructure, Application and Mode of Supply. Based on LNG infrastructure, the market is segmented into LNG Liquefaction Plants, LNG Regasification Facilities, and LNG Shipping. Based on application, the market is segmented into transpiration fuel, power generation, and others. Based on mode of supply, the market is segmented into trucks, pipelines, and marine.

### Market Players

### Report Scope:

In this report, the Australia Liquified Natural Gas Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

## Australia Liquefied Natural Gas Market, By LNG Infrastructure:

LNG Liquefaction Plants

LNG Regasification Facilities

LNG Shipping

## Australia Liquefied Natural Gas Market, By Application:

Transpiration Fuel

Power Generation

Others

## Australia Liquefied Natural Gas Market, By Mode of Supply:

Trucks

Pipeline

Marine

## Australia Liquefied Natural Gas Market, By Region:

Australia Capital Territory & New South Wales,

Victoria & Tasmania,

Queensland,

Northern Territory & Southern Australia,

Western Australia

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Australia Liquefied Natural Gas Market.

Available Customizations:

TechSci 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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