

Virtual Pipeline Market Size and Forecast (2021-2031), Global and Regional Share, Trend, and Growth Opportunity Analysis -By Fuel Type (LNG, CNG, and Others), Transportation Model (Tube Trailer, Tanker Trucks, Rail Tank Cars, and Marine Vessels), Applications (Power Generation, Industrial Fuel Supply, Transport Fueling, Residential, Commercial, Mining Construction, and Others), and Geography

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Abstracts

The global virtual pipeline market size was valued at US\$ 1.99 billion in 2024 and is expected to reach US\$ 3.02 billion by 2031; it is estimated to record a CAGR of 6.2% from 2025 to 2031.

The global virtual pipeline market is segmented into five major regions: North America, Europe, Asia Pacific, the Middle East and Africa, and South America. Asia Pacific registered the largest market share in the virtual pipeline market, followed by the Europe and North America. The market growth in Asia Pacific can be attributed to the presence of key players and increasing demand for virtual pipeline services from manufacturing, power generation, and transport fueling industry in the region. Asia Pacific registered the significant growth rate during the forecast period.

The Asia Pacific (APAC) virtual pipeline market is segmented into Australia, China, India, Japan, South Korea, and Rest of Asia Pacific. The virtual pipeline market Asia Pacific is rapidly evolving, supported by increasing natural gas demand and the region's ongoing energy transition. Virtual pipelines, which enable the transportation of compressed natural gas (CNG), liquefied natural gas (LNG), and hydrogen via mobile

delivery systems, are gaining traction as flexible alternatives to fixed pipeline infrastructure, especially in remote or underdeveloped areas.

According to the International Energy Agency (IEA), domestic natural gas production in China accounted for 61% of total gas supply in 2023, marking a remarkable 755% increase since 2000. This surge underscores China's strategic emphasis on enhancing indigenous gas production to meet its growing energy demands while reducing its reliance on imports.

Infrastructure development is also advancing, with new LNG-fired power plants coming online to support grid stability and cleaner energy generation. For example, in November 2024, Jera, a leading power firm and LNG trader, announced that its power station's Unit 2 had begun commercial operation. This new unit has a generating capacity of 780 MW and employs an LNG-fired gas turbine combined cycle (GTCC) system.

The expansive geography and growing industrial demand in Asia Pacific create a strong market for virtual pipeline solutions. These systems offer scalable and rapid delivery of natural gas and other low-carbon fuels to areas where pipeline construction may be challenging or economically unfeasible. Governments and private companies are increasingly investing in mobile energy distribution to support the region's transition toward cleaner, more reliable energy supplies. The virtual pipeline market in Asia Pacific is expected to expand significantly, driven by increasing natural gas production, infrastructure development, and a commitment to energy security and sustainability goals.

India is rapidly increasing its natural gas usage as part of its energy diversification and economic growth strategy. However, many regions remain underserved by traditional pipeline infrastructure due to geographical and logistical challenges. Virtual pipeline systems, which transport compressed or liquefied natural gas via truck, rail, or ship, offer a flexible and cost-effective alternative to expand gas access in these areas. In April 2020, the US Trade and Development Agency (USTDA) awarded a grant to Arush Gas Technology Services LLP (AGTS) to support India's virtual pipeline development. The funding will be used for a feasibility study evaluating how virtual pipelines can deliver natural gas to regions lacking conventional gas infrastructure. This initiative aims to improve energy access, reduce reliance on more polluting fuels, and support industrial and residential growth. Virtual pipelines have the potential to accelerate India's natural gas market expansion by providing a reliable supply to remote and emerging markets. This will contribute to the country's broader goals of adopting

cleaner energy and achieving sustainable economic development.

Stabilis Solutions Inc; Kinder Morgan Inc; Hexagon Agility (Hexagon Composites ASA); Galileo Technologies S.A.; Fiba Technologies Inc; Bayotech, Inc.; NG Advantage LLC; CNG Services Limited; Air Products and Chemicals, Inc.; and Gas Malaysia Virtual Pipeline Sdn. Bhd are among the key global virtual pipeline market players that are profiled in this market study.

The overall global virtual pipeline market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the global virtual pipeline market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the global virtual pipeline market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players and segments in the global Virtual Pipeline market.

Highlights key business priorities in order to assist companies to realign their business strategies

The key findings and recommendations highlight crucial progressive industry trends in the global Virtual Pipeline market, thereby allowing players across the value chain to develop effective long-term strategies

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets

Scrutinize in-depth global Virtual Pipeline market trends and outlook coupled with the factors driving the market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation,

pricing and distribution

The List of Companies - Virtual Pipeline Market

Kinder Morgan

NG Advantage LLC

Stabilis Solutions

Hexagon Agility

Gas Malaysia Berhad

Galileo Technologies

CNG Services Limited

FIBA Technologies, Inc.

BayoTech

Air Products and Chemicals, Inc.

CNG Delivery LLC

CORE Automated Fueling Solutions

Certarus Ltd.

Ultimate CNG, LLC

Xpress Natural Gas

Frontier LNG LLC

Quantum Fuel Systems

Crowley, Aggreko

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