

Shale Gas Market Growth Fueled by Fracking Technology and Energy Demand

Shale Gas Market to Reach \$130.3 Billion by 2030, Growing at 8.5% CAGR

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The [shale gas market](#) is experiencing significant growth as global energy demand rises and innovative drilling technologies make extraction more efficient. According to a new report published by Allied Market Research, the global shale gas market size was valued at \$57.2 billion in 2020 and is projected to reach \$130.3 billion by 2030, growing at a CAGR of 8.5% from 2021 to 2030.



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Global shale gas market to reach \$130.3B by 2030, driven by rising energy demand, fracking technology, and power generation needs."

Allied Market Research

□ What is Shale Gas?

Shale gas is a type of natural gas trapped within fine-grained sedimentary rocks known as shales. It is typically stored in three forms:

Free gas: trapped within the pores and fractures of the rock.

Adsorbed gas: attached to organic matter and clays.

Dissolved gas: stored within organic materials.

The extraction of shale gas became economically feasible with the combination of horizontal drilling and [hydraulic fracturing](#) (fracking), which unlocked reserves that were once inaccessible. Shale reservoirs can extend up to 500 meters and are often interbedded with siltstone or fine

sandstone, creating vast opportunities for energy production.

□ Market Drivers and Opportunities

Rising Energy Demand – As global electricity consumption increases; shale gas is positioned as a reliable and cost-effective energy source.

Technological Innovations – Advances in horizontal and rotary fracking have boosted production efficiency.

Power Generation Demand – Shale gas is emerging as a cleaner alternative to coal, contributing to lower emissions.

Government Support – Investments in infrastructure and energy security strategies are fueling shale gas adoption.

At the same time, environmental concerns over hydraulic fracturing and fluctuations in crude oil and natural gas prices remain challenges for market expansion. However, the growing adoption of sustainable energy strategies presents new opportunities.

□ Shale Gas Market Segmentation

The shale gas market analysis covers segmentation by technology, end-user, and region.

By Technology:

Vertical Fracking – Emerged as the global leader in 2020.

Horizontal Fracking – Widely adopted for large-scale extraction.

Rotary Fracking – Gaining traction with improved drilling capabilities.

By End-User:

Power Generation – Largest segment in 2020 and expected to maintain dominance.

Residential & Commercial – Increasing adoption for heating and fuel.

Industrial & Transportation – Significant demand for energy-intensive operations.

□ Regional Insights

North America dominates the shale gas market due to early adoption of fracking technology and

large-scale reserves. The U.S. has led global shale gas production, rejuvenating its natural gas industry.

Asia-Pacific is expected to record strong growth, driven by rising industrialization and energy consumption in emerging economies such as China and India.

Europe is investing heavily in shale exploration but faces regulatory challenges.

LAMEA (Latin America, Middle East & Africa) holds untapped potential with ongoing exploration activities.

Procure This Report (324 Pages PDF with Insights, Charts, Tables, and Figures):

<https://www.alliedmarketresearch.com/checkout-final/bbc1ca6566c7ce2ffd977b795148f36a>

□ Key Market Players

The [shale gas industry](#) is competitive, with major players adopting partnerships, acquisitions, and advanced technologies to expand production. Key companies include:

Southwestern Energy Company

EQT Corporation

Equinor ASA

Repsol SA

Sinopec

Chesapeake Energy Corporation

Royal Dutch Shell PLC

Exxon Mobil Corporation

Chevron Corporation

PetroChina

These players are focusing on sustainability, efficiency, and global expansion to capture a larger market share.

□ Impact of COVID-19 on the Shale Gas Market

The COVID-19 pandemic significantly disrupted the global shale gas market growth. Demand for oil and gas plummeted due to lockdowns, collapsing prices and halting investments. Key impacts included:

Sharp Decline in Demand – Global gas consumption fell across OECD and non-OECD regions. Europe recorded a 7% year-on-year decline in early 2020.

Bankruptcies and Capital Losses – The U.S. shale industry reported more than 190 bankruptcies since 2010 and \$450 billion in impaired capital.

Oversupply Challenges – Excess natural gas supply pushed spot indices to historic lows.

Investment Delays – LNG projects worth 14 billion cubic feet per day capacity faced delays due to uncertain market conditions.

However, the shale gas market is gradually recovering with renewed investments, particularly in the U.S., where shale production remains a backbone of the energy industry.

□ Future Outlook

Looking ahead, the shale gas market forecast remains promising. With technological advancements in fracking, growing power generation demand, and government-driven investments, the shale gas industry is set to expand significantly.

North America will continue to lead production, while Asia-Pacific offers the fastest growth opportunities. Despite environmental concerns, shale gas will play a critical role in the global energy transition, offering a bridge between fossil fuels and renewable energy.

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□ Conclusion

The shale gas market is projected to nearly double its size, reaching \$130.3 billion by 2030, driven by rising demand, innovative fracking technologies, and growing reliance on natural gas for power generation. Although the industry faced severe challenges during the COVID-19 pandemic, its recovery signals a strong future ahead. Shale gas will remain a key contributor to global energy security, supporting both industrial and residential sectors in the years to come.

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

David Correa

Allied Market Research

+ +1 800-792-5285

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