

# **Coal Bed Methane Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Type (CBM Wells and Coal Mines), By Technology (Horizontal Drilling, Hydraulic Fracturing and CO2 Sequestration), By Application (Power Generation, Residential, Commercial, Industrial and Transportation), By Region, Competition 2018-2028**

<https://marketpublishers.com/r/CCBCFC227C09EN.html>

Date: November 2023

Pages: 172

Price: US\$ 4,900.00 (Single User License)

ID: CCBCFC227C09EN

## **Abstracts**

The Global Coal Bed Methane Market was valued at USD 11.26 billion in 2022 and is growing at a CAGR of 6.72% during the forecast period. The demand for coal bed methane (CBM) is on the rise due to its increasing usage in the cement production and steel industries for power generation. The growing awareness of greenhouse gas (GHG) mitigation has also contributed to the market's growth, as CBM emits lower amounts of GHGs compared to conventional fuels like petroleum and coal.

Furthermore, the market is expected to be driven by the ongoing natural gas pipeline projects that rely on CBM for natural gas production, as well as the higher demand for eco-friendly fuels in the industrial sector, throughout the forecast period.

### **Key Market Drivers**

#### **Increasing Energy Demand and Energy Security Concerns**

The Global Coal Bed Methane (CBM) Market is propelled by the growing global energy demand and the necessity to diversify energy sources for enhanced energy security. As the global population continues to expand, the demand for energy follows suit. CBM, a natural gas extracted from coal deposits, has gained recognition as a valuable energy resource. It presents itself as a cleaner-burning alternative to conventional fossil fuels

such as coal and oil, making it an appealing choice to fulfill the increasing energy demand. Numerous countries are increasingly concerned about energy security, which entails ensuring a stable and dependable energy supply to support economic growth and development.

CBM is regarded as a secure energy source due to its abundance and widespread distribution, reducing reliance on imported fossil fuels and bolstering energy security. CBM possesses a lower carbon footprint compared to coal, as it emits fewer greenhouse gases when utilized for electricity generation or as a feedstock for various industrial processes. This positions CBM as a catalyst in addressing climate change concerns by providing a cleaner-burning energy option.

### Environmental Regulations and Emissions Reduction Goals

Stringent environmental regulations and emissions reduction goals established by governments and international organizations serve as significant drivers of the Global CBM Market. Herein lies a comprehensive analysis of this catalyst: The combustion of coal for electricity generation and industrial processes stands as a primary contributor to air pollution, encompassing sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), and particulate matter (PM). In an effort to combat air quality issues and mitigate health-related concerns, governments worldwide are actively enforcing rigorous emissions standards. CBM, as a cleaner-burning fuel, aligns with these regulations by emitting significantly lower levels of pollutants compared to coal.

Countries, as part of their commitment to combat climate change, are establishing ambitious targets for emissions reduction. CBM plays a crucial role in attaining these objectives by substituting coal in power generation and industrial applications. Its reduced carbon content leads to diminished CO<sub>2</sub> emissions, thereby presenting a viable option for transitioning to cleaner energy sources. Continual research and advancements in CBM extraction and utilization techniques are enhancing accessibility and cost-effectiveness of this resource. Innovations in drilling and extraction methodologies, such as hydraulic fracturing (fracking), have expanded the viability of CBM projects.

### Economic Viability and Energy Price Volatility

The economic viability of CBM projects and the volatility of energy prices serve as significant drivers for the Global CBM Market. CBM presents a competitive advantage in terms of energy pricing compared to other fossil fuels, particularly during periods of

price volatility. Its relatively stable pricing appeals to industries and utilities seeking cost-effective energy solutions that offer predictability in energy expenses. Diversifying the energy resource portfolio is a strategic imperative for governments and industries to mitigate the risks associated with fluctuations in energy prices and supply disruptions.

CBM's competitive pricing and abundant reserves contribute to the diversification of energy resources. The economic viability of CBM projects attracts investments from both public and private sectors, supporting the development of CBM infrastructure, exploration, and extraction activities. As technological advancements drive down the cost of CBM extraction, its economic feasibility continues to improve.

In conclusion, the Global Coal Bed Methane (CBM) Market is driven by increasing energy demand and security concerns, stringent environmental regulations and emissions reduction goals, and the economic viability of CBM projects amidst energy price volatility. These drivers underscore the potential of CBM to play a pivotal role in meeting energy needs while reducing environmental impact and enhancing energy security.

## Key Market Challenges

### Environmental Concerns and Regulatory Challenges

One of the significant challenges faced by the Global Coal Bed Methane (CBM) Market pertains to the environmental concerns associated with CBM extraction and production, in conjunction with the complexities of regulatory frameworks.

CBM extraction can result in environmental impacts, such as potential groundwater contamination, methane emissions (a potent greenhouse gas), and disruption of local ecosystems. The process involves drilling and hydraulic fracturing, which can raise concerns regarding water resource contamination if not managed appropriately. Regulatory frameworks governing CBM extraction and production exhibit variations across different regions. Compliance with these regulations can be intricate and resource-intensive for operators.

Striking a balance between CBM development and environmental protection poses a challenge that necessitates diligent monitoring, implementation of mitigation measures, and adherence to evolving environmental standards. Local communities residing near CBM extraction sites may express concerns about the environmental and social ramifications of drilling and hydraulic fracturing. Addressing community concerns and

garnering social acceptance for CBM projects can be arduous, often requiring extensive community engagement and transparent efforts.

### Geological and Technical Challenges

The extraction of Coalbed Methane (CBM) presents various geological and technical challenges that can impede its development and production. CBM reservoirs exhibit geological complexities, including variations in coal seam thickness, depth, and permeability. Accurate identification and characterization of these reservoirs are crucial for successful CBM production.

Geological uncertainties can result in suboptimal drilling and extraction decisions. CBM production involves the extraction of groundwater from coal seams to release methane. Managing this dewatering process can be challenging, as excessive water removal can lead to subsidence, land instability, and environmental concerns.

Striking a balance between the dewatering rate and methane extraction is a delicate technical challenge. CBM extraction often necessitates the use of hydraulic fracturing techniques, which can present technical challenges and require precision to mitigate environmental and safety risks. Employing effective drilling and fracturing methods is imperative for optimizing methane recovery.

### Key Market Trends

#### Technological Advancements and Enhanced Extraction Techniques

One of the significant trends in the Global Coal Bed Methane (CBM) Market is the continuous advancement of technologies and extraction techniques. These innovations aim to enhance the efficiency and economic viability of CBM production. Technological advancements have facilitated the development of more precise and efficient drilling methods for accessing CBM reservoirs.

Horizontal drilling and directional drilling techniques are increasingly employed to optimize the extraction process and improve the efficacy of reaching coal seams. The utilization of hydraulic fracturing, or fracking, represents a notable trend in CBM extraction. This technique involves injecting water, sand, and chemicals into coal seams to induce fracturing, thereby enabling the release of methane. Advancements in fracking technology have resulted in higher methane recovery rates and reduced environmental impacts.

Reservoir modeling and simulation software have become indispensable tools for CBM operators. These tools enable them to create detailed models of subsurface coal formations, facilitating reservoir characterization, optimization of well placement, and prediction of gas production rates.

### Environmental and Sustainability Initiatives

A second notable trend in the Global CBM Market is the growing emphasis on environmental sustainability and responsible extraction practices. This trend aligns with the increasing concerns regarding climate change and environmental impact. Methane, a potent greenhouse gas, has raised environmental concerns due to its emissions during CBM extraction. The ongoing trend is to implement technologies and practices that effectively minimize methane leaks and emissions throughout the drilling, production, and transportation processes.

Sustainable water management practices are gaining significance in CBM operations. Industry is increasingly adopting the recycling and reuse of water utilized in hydraulic fracturing, along with responsible wastewater disposal, as standard practices to reduce the environmental footprint of CBM extraction. Governments and regulatory bodies are imposing stricter environmental regulations on CBM operations, driving companies in this sector to embrace cleaner and more sustainable practices to ensure compliance and minimize environmental impact.

### Segmental Insights

#### Technology Insights

Horizontal Drilling segment is expected to dominate the market during the forecast period. Horizontal drilling is a pivotal technique in the Global Coal Bed Methane (CBM) Market, playing a crucial role in enhancing resource recovery and improving the economic viability of CBM projects. Horizontal drilling has brought about a revolution in CBM extraction by significantly boosting resource recovery rates. In contrast to vertical drilling, which accesses CBM reservoirs through a single entry point, horizontal drilling enables operators to reach multiple coal seams and tap into a larger surface area within the coal formation. This leads to increased methane production and overall resource recovery.

Moreover, horizontal drilling not only accesses a larger portion of the coal seam but also

exposes a greater section of the coal to the wellbore. This heightened exposure to the coal formation enhances well productivity by facilitating the flow of methane to the wellbore. Consequently, CBM wells drilled horizontally demonstrate higher production rates and longer productive lifespans in comparison to vertical wells.

From an environmental standpoint, horizontal drilling offers several advantages by minimizing surface disturbance. A single horizontal well can replace multiple vertical wells, thereby reducing the footprint of CBM operations. Consequently, this minimizes land disruption, habitat fragmentation, and the impact on local ecosystems. Furthermore, it enhances the aesthetic appeal of the landscape, resulting in less obtrusive CBM operations. One of the challenges in CBM extraction lies in managing the inflow of groundwater into the wellbore.

Horizontal drilling techniques can be combined with effective reservoir pressure management to mitigate excessive water production. By drilling through multiple coal seams and employing specialized completion techniques, operators can control water influx while maximizing methane production.

## Type Insights

CBM Wells segment is expected to dominate the market during the forecast period. In the Global Coal Bed Methane (CBM) Market, CBM wells serve as the primary infrastructure for extracting methane gas from coal seams. These wells play a crucial role in the CBM production process. They are the main sources for extracting methane gas from coal seams.

Production wells can be categorized as vertical, horizontal, or directional, depending on the geological characteristics of the coal reservoir and drilling techniques employed. These wells are equipped with completion systems, including screens and tubing, to effectively control the flow of methane and water from the coal seam to the surface. Dewatering wells are utilized to lower the groundwater level within the coal seam, facilitating the release of methane gas. Typically, these wells operate before or concurrently with production wells. The dewatering process is essential to minimize water influx into production wells, which could impede methane extraction.

Vertical wells are drilled directly into the coal seam, making them the simplest and most cost-effective option. However, their suitability depends on the specific geological conditions, and they are commonly used in shallow coal seams. CBM wells are equipped with completion systems, such as screens and tubing, to regulate the flow of



methane and water.

Hydraulic fracturing, also known as fracking, may be employed in CBM wells to stimulate methane release from coal seams. This technique involves injecting water, sand, and chemicals into the coal seam to create fractures that enhance methane flow. The water produced from CBM wells, referred to as produced water or formation water, is a byproduct of methane extraction. Effective water management is crucial for the proper handling, treatment, and environmentally responsible disposal of this water. Some produced water may be reinjected into the coal seam for pressure maintenance.

## Regional Insights

North America is expected to dominate the market during the forecast period. North America plays a prominent role in the Global Coal Bed Methane (CBM) Market, owing to its vast CBM reserves, advanced extraction technologies, and well-established infrastructure. Particularly, the United States and Canada stand out in North America with their extensive CBM reserves. These reserves are found in coal basins across the continent, with significant concentrations in the Powder River Basin in the U.S. and the Horseshoe Canyon Formation in Canada.

The abundance of CBM resources in North America positions the region as a major player in the global market. Moreover, North America has been at the forefront of developing and implementing innovative CBM extraction techniques, such as hydraulic fracturing (fracking), horizontal drilling, and the use of cutting-edge drilling equipment and well completion technologies. These advancements have significantly enhanced the efficiency and productivity of CBM wells.

Furthermore, North America's CBM market is relatively mature, boasting a well-established supply chain and distribution network. This maturity has enabled CBM producers to effectively meet both domestic and international demand for natural gas. In fact, North America has the potential to export CBM to international markets, with the United States emerging as a significant CBM exporter to countries seeking cleaner-burning natural gas to reduce emissions.

Exporting CBM not only holds economic benefits for North American producers but also contributes to global energy security. It is worth noting that CBM competes with shale gas in North America's energy landscape, with shale gas production witnessing significant growth in the region due to the shale revolution. As a result, CBM operators must strive to compete with shale gas in terms of cost-efficiency and market share.

## Key Market Players

Arrow Energy Holdings Pty Ltd.

Baker Hughes Company

BP PLC

Essar Group

Halliburton Company

Petroleum Nasional Berhad (PETRONAS)

Reliance Industries Limited

Royal Dutch Shell plc

Santos Limited

The ConocoPhillips Company

## Report Scope:

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

Global Coal Bed Methane Market, By Material Type:

CBM Wells

Coal Mines

Global Coal Bed Methane Market, By Technology:

Horizontal Drilling



Hydraulic Fracturing

CO2 Sequestration

Global Coal Bed Methane Market, By Application:

Power Generation

Residential

Commercial

Industrial

Transportation

Global Coal Bed Methane Market, By Region:

North America

Europe

South America

Middle East & Africa

Asia Pacific

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Coal Bed Methane Market.

Available Customizations:

Global Coal Bed Methane 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:

*Coal Bed Methane Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Type (CB...*

## Company Information

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

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