

Coal Gasification Market to Experience Substantial Improvement, Latest Expansion, and Complete Analysis by 2032 | AMR

Coal Gasification Market Expected to Reach \$544.2 Billion by 2032

PORTLAND, OREGON, UNITED STATES, November 2, 2023 /EINPresswire.com/ -- Allied Market Research published a report on the [Coal Gasification Market](#) by Gasifier (Fixed Bed, Fluidized Bed, Entrained Flow), by Application (Fertilizers, Electricity Generation, Chemicals, Hydrogen Generation, Steel Production, Others): Global Opportunity Analysis and Industry Forecast, 2023-2032.



Coal Gasification Market Insight

The coal gasification market size was valued at \$186.9 billion in 2022 and is estimated to reach \$544.2 billion by 2032, growing at a CAGR of 11.4% from 2023 to 2032.

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Coal gasification reduces dependence on fossil fuels & natural gas, offering clean energy like hydrogen. It provides self-reliant energy for coal-rich countries, driving growth and opportunities ahead”

Allied Market Research

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The coal gasification process is used for converting coal into a gaseous mixture called synthesis gas or syngas. The syngas is used for breaking down coal into its constituent elements under high-pressure and high-temperature conditions. The syngas are comprised of hydrogen and carbon monoxide. Also, syngas includes the presence of some other gases such as methane or carbon dioxide to a

certain extent.

The syngas produced via coal gasification are widely used for electricity generation, in several

industrial & chemical processes. The gasification process offers high efficiency as coal gasification can handle different coal types such as low-grade coals as well as coal wastes. Thus, coal gasification offers versatility in terms of feedstock selection. In addition, the coal gasification process can be used to process waste materials including biomass, industrial waste, municipal solid waste (MSW), and others. Thus, coal gasification can help in reducing waste generation by converting waste into energy.

Government policies, subsidies, and incentives geared toward propelling the growth of clean energy technologies exert a considerable influence on the adoption and expansion of coal gasification initiatives. This holds significant advantages for coal gasification enterprises and contributes to an upswing in market development. Governments worldwide are directing investments into the realm of clean energy production to boost the adoption of coal gasification technologies for power generation and in the industrial sector. An example of this trend is evident in India, where the government has embarked on an endeavor to gasify 100 million metric tons of coal by 2030. To achieve this, the Central Government has orchestrated an investor conference to formulate a public-private partnership (PPP) framework. This collaborative approach seeks to attain the ambitious goal of coal gasification, recognized as a more environmentally friendly alternative to coal combustion. These factors are anticipated to drive the coal gasification market share in the coming years.

The emphasis lies on fostering private sector engagement and investment within the sector. Similarly, the United States Department of Energy's Office of Fossil Energy is actively advancing coal gasification through its Gasification Systems Program. This program is focused on developing adaptable, inventive, resilient, and transformative modular designs capable of converting diverse forms of domestic coal and coal blends, along with biomass, municipal solid waste (MSW), and waste plastics, into clean synthesis gas. This gas serves as a versatile foundation for cost-effective electricity production, high-value chemical synthesis, hydrogen generation, transportation fuel creation, and other valuable market-oriented commodities, which encourages governments across the world to incentivize the process and increase private sector investment in this sector. This pursuit is coupled with the integration of technologies facilitating the negative emission of greenhouse gases. This transition underscores the economic incentives driving cleaner energy alternatives.

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While coal gasification results in fewer greenhouse gas emissions compared to conventional coal combustion, it still discharges carbon dioxide and other harmful substances. As environmental regulations tighten and public awareness of climate change intensifies, the coal gasification sector could encounter challenges in conforming to more stringent emission standards and gaining public approval. Despite utilizing Integrated Gasification Combined Cycle (IGCC) plants, substantial carbon dioxide is still produced, contributing to potential global warming.

When coal is burned, it releases particulate matter into the air and emits a substantial volume of carbon dioxide. These combined emissions can enhance the sunlight reflection effect, trapping warmth instead of allowing it to dissipate from the Earth. The particulates subsequently settle on the ground, potentially contaminating areas with high coal consumption. Moreover, coal extraction necessitates mining, which depletes essential resources, jeopardizes groundwater and contributes further to atmospheric emissions. These environmental challenges linked to coal gasification may prompt the imposition of rules and regulations that may not align with industry profitability, potentially restricting market expansion.

Figure 1: Key market players in the Coal Gasification industry:

The Coal Gasification industry's key market players adopt various strategies such as product launches, product development, collaboration, partnership, and agreements to influence the market. It includes details about the key players in the market's strengths, product portfolio, market size and share analysis, operational results, and market positioning.

Figure 1: Key market players in the Coal Gasification industry:

Linc Energy Ltd.
Sasol Limited
Sedin Engineering Co Ltd.
Air Liquide
Air Products
Mitsubishi Heavy Industries Ltd.
Dakota Gasification Company
Andritz
Thyssenkrupp Uhde GmbH
Shanxi Lu'an Mining Group Co., Ltd.

The high export potential of coal gasification technologies is estimated to generate excellent opportunities in the industry. For instance, countries with advanced coal gasification technology may find export opportunities across countries namely China, India, and others where coal remains a significant part of the energy mix. In addition, the supportive government policies which include incentives for carbon capture and utilization, providing subsidies for clean energy projects are estimated to propel the adoption and investments in the coal gasification process in the coming years. Furthermore, retrofitting existing coal-fired power plants with gasification technology can extend the lifespan of gasification facilities and will reduce emissions. The gasification plant upgrade, as well as modernization, is predicted to generate excellent opportunities in the market. Governments worldwide are actively supporting coal gasification, which is anticipated to have a positive impact on the coal gasification market forecast.

The coal gasification market scope is segmented on the basis of gasifier, application, and region. By gasifier, it is classified into fixed bed, fluidized bed, and entrained flow. By application, it is

classified into fertilizers, electricity generation, chemicals, hydrogen generation, steel production, and others. By region, the market is analyzed across North America, Europe, Asia-Pacific, and Latin America.

The report offers a comprehensive study on coal gasification market analysis by studying the coal gasification market trends by thoroughly studying different aspects of the market including major segments, market statistics, market dynamics, regional market outlook, coal gasification market opportunities, and top players working towards the growth of the market. The report also highlights the present scenario and upcoming trends & developments that are contributing toward the growth of the market. Moreover, restraints and challenges that hold power to obstruct the coal gasification market growth are also profiled in the report along with Porter's five forces analysis of the market to elucidate factors such as competitive landscape, bargaining power of buyers and suppliers, threats of new players, and emergence of substitutes in the market.

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Key highlights of the report:

- Based on gasifier, the fluidized bed gasifier sub-segment emerged as the global leader in 2022 and it is predicted to show the fastest growth in the upcoming years.
- Based on application, the electricity generation sub-segment emerged as the global leader in 2022 and the hydrogen generation sub-segment is predicted to show the fastest growth in the upcoming years.
- Based on region, Asia-Pacific registered the highest market share in 2022 and it is projected to be the fastest growing during the forecast period.

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1. Coal Gasification Market to Reach 836.6 Billion Globally by 2032 at 5.7% CAGR - <https://www.prnewswire.com/news-releases/gasification-market-to-reach-836-6-billion-globally-by-2032-at-5-7-cagr-allied-market-research-301868101.html>

2. Biomass Gasification Market Is Expected to Reach 188.5 Billion by 2031 - <https://www.globenewswire.com/en/news-release/2023/01/20/2592394/0/en/Biomass-Gasification-Market-Is-Expected-to-Reach-188-5-Billion-by-2031-Says-AMR.html>

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