

# Brown Hydrogen Market 2023 Analytical Assessment, Key Drivers, Growth and Opportunities to 2030

*Brown Hydrogen Market Trends, Business Strategies, and Opportunities with Key Players Analysis 2030*

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/EINPresswire.com/ -- India and Australia are expected to serve as the top investment pockets in the market, during the forecast period. Increased demand for hydrogen from coal from India and favorable government policies is expected to drive the market. Furthermore, Australia has

started production of hydrogen from coal. This hydrogen energy supply chain project is being developed by the alliance including J-POWER, Kawasaki Heavy Industries, Marubeni, Iwatani, Sumitomo, and AGL. It is supported by the Japanese and Victorian, Australian governments. J-Power is in charge of the coal gasification and hydrogen refining facility. The carbon dioxide can

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Low production costs & abundant raw materials drive the brown hydrogen market. Growing demand from coal gasification with carbon capture storage presents opportunities.”

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be separated using relatively mature physical absorption technologies. The [brown hydrogen market](#) was valued at \$30.4 billion in 2020 and is projected to reach \$48.9 billion by 2030, growing at a CAGR of 4.7% from 2021 to 2030.

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Brown hydrogen is produced through gasification. It is a well-established process that converts coal into hydrogen

and carbon dioxide. In the coal gasification process, coal is heated at elevated temperatures to produce syngas. Syngas are rich in hydrogen, carbon monoxide and CO<sub>2</sub>. More hydrogen can be produced using the water gas shift reaction. The carbon dioxide can be separated using

relatively mature physical absorption technologies.

Factors that drive the brown hydrogen market growth are availability and lower prices of raw materials i.e., coal, and less production cost as compared to green hydrogen. However, the factors that hinder the market growth are the high carbon footprint of the coal gasification process and the rising traction of green hydrogen. On the contrary, the rising investment and demand for hydrogen produced from coal gasification with carbon capture storage technology is expected to offer lucrative market opportunities during the forecast period.

Based on technology, the coal gasification with carbon capture and storage segment is expected to witness growth at a considerable growth rate. It is expected to witness growth at a CAGR of 11.7% in terms of volume during the forecast period. This is attributed to numerous factors such as ease in availability of raw materials, cheap production, cheap raw materials, and others.

Based on the end-use industry, the chemical segment garnered a 47.8% share in 2020 in terms of volume. This is attributed to increased demand from chemical industries in China, Germany, India, and others.

Based on region, Asia-Pacific is expected to grow at a CAGR of 9.8% in terms of volume during the forecast period. This is attributed to an increase in demand for brown hydrogen from Australia, India, and others. Furthermore, as per India's hydrogen strategy, there is expected to be an increase in investment by India in coal gasification.

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The Brown Hydrogen 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.

Key players in the market include SINOPEC GROUP, Air Products Inc., Sasol, Air Liquide, Iwatani Corporation, Electric Power Development Co., Ltd. (J-Power), and others.

SINOPEC GROUP

Air Products Inc.

Sasol

Air Liquide

Iwatani Corporation

Electric Power Development Co., Ltd. (J-Power)

The brown hydrogen market is segmented based on technology, end-use industry, and region.

Depending on technology, the brown hydrogen market is categorized into coal gasification with carbon capture storage and coal gasification without carbon capture storage. End-use industry of brown hydrogen studied in the market includes refining, chemicals, iron and steel, and others. Region-wise, the brown hydrogen market share is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

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- The report outlines the current brown hydrogen market trends and future scenario of the market from 2021 to 2030 to understand the prevailing opportunities and potential investment pockets.
- The brown hydrogen market size is provided in terms of volume and revenue.
- Based on the end-use industry, the refining; segment gained a 44.3% share in 2020 in terms of volume.
- Based on region, the North American region garnered a market share of 6.5% in 2020 in terms of volume.
- Based on the end-use industry, the iron and steel segment is expected to grow at a CAGR of 9.9% in terms of volume.
- Based on technology, coal gasification with carbon capture storage is expected to grow at a CAGR of 11.7% in terms of volume.

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