

# Asia Pacific Coal Gasification Liquid Hydrogen Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

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## Abstracts

Asia Pacific Coal Gasification Liquid Hydrogen Market was valued at USD 898.7 million in 2023 and is projected to grow at a CAGR of 3.5% from 2024 to 2032. Coal gasification is a process that transforms coal into synthetic gas, mainly composed of hydrogen, carbon monoxide, methane, and carbon dioxide. This transformation occurs when coal reacts at high temperatures with controlled amounts of oxygen and/or steam. The resulting syngas have diverse applications, including electricity generation, chemical production, and serving as a precursor for hydrogen production. As countries increasingly prioritize energy security and aim to reduce reliance on imported fossil fuels, the penetration of coal gasification for hydrogen production is set to rise. Moreover, government backing, especially China's emphasis on coal-based hydrogen projects in its 14th Five-Year Plan, underscores the strategic importance of these initiatives for energy security and reduced external energy reliance. The overall Asia Pacific coal gasification liquid hydrogen industry is classified based on distribution, end-use, and country. The Asia Pacific coal gasification liquid hydrogen market is divided into cryogenic tanks and pipelines based on distribution. Cryogenic tanks, projected to exceed USD 1,118 Million by 2032, are favored for their ability to preserve liquid hydrogen over long distances.

This capability addresses the demand for extensive hydrogen supply chains.

Investments in innovative insulation techniques and advanced materials aim to reduce boil-off rates and enhance the distribution system's durability. Additionally, the efficient storage and transport capabilities of cryogenic tanks bolster their adoption, especially for applications demanding high-density energy storage. End-use segmentation of the Asia Pacific coal gasification liquid hydrogen market includes transportation, chemicals, and others.

The transportation segment is expected to grow at a CAGR of over 3.9% by 2032. The

regional shift towards decarbonizing transportation is influencing the adoption of innovative processes. There's a rising demand for high energy density fuels, crucial for heavy-duty vehicles like trucks, buses, and trains that emphasize long-range capabilities. Moreover, the rapid establishment of hydrogen refueling infrastructure in key markets, especially China, India, and Australia, is propelling the adoption of hydrogen-powered vehicles. Forecasts indicate that the Asia Pacific coal gasification liquid hydrogen market could surpass USD 662 Million by 2032. China's abundant coal reserves and its efforts to harness these resources for enhanced energy security play a pivotal role in this outlook. China's commitment to achieving carbon neutrality by 2060, combined with a surging demand for hydrogen in industrial applications—especially in steel and chemical manufacturing where hydrogen serves as a feedstock—further bolsters these projections.

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