# Blue Ammonia Market Booms Amid Rising Hydrogen Demand, Global Decarbonization & Clean Fuel Policies| DataMIntelligence

*Blue ammonia is rising as a clean fuel alternative, driven by global energy goals, hydrogen trade, and new innovations in carbon capture and clean production.*

Blue Ammonia Market

NEW YORK, NY, UNITED STATES, July 24, 2025 /EINPresswire.com/ -- Market Overview :-

Blue Ammonia Market is witnessing exponential growth driven by rising demand for low-carbon fuels, supportive government policies, and a global push for decarbonizing hard-to-abate sectors like shipping and power generation. The Blue Ammonia Market reached US$ 216.74 million in 2024 and is expected to reach US$ 6,046.90 million by 2032, expanding at a staggering CAGR of 51.60% during the forecast period (2025–2032). The market is rapidly evolving as countries seek cleaner hydrogen carriers, and energy giants invest in scalable, carbon-reducing technologies.

> Blue ammonia is not just a clean fuel, it's a bridge to a low-carbon future, enabling decarbonization of power, industry, and shipping on a global scale”
>
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Blue ammonia Market - Recent Key Developments & Latest Innovations:

July 2025 - ADNOC and Japan’s Mitsui & Co. signed a major agreement to explore large-scale blue ammonia production and transport between UAE and Japan.

June 2025 - OCI Global announced a successful trial of co-firing blue ammonia in coal-fired

power plants in South Korea. This advancement demonstrates ammonia's role as a drop-in fuel to reduce emissions in legacy infrastructure.

May 2025 - CF Industries and JERA Co., Inc., Japan's largest power utility, reached a supply agreement for low-carbon blue ammonia to support Japan's 2050 net-zero goals. Initial deliveries are expected in 2026.

April 2025 - Saudi Aramco revealed a pilot facility capable of producing 30,000 tons of blue ammonia annually using captured CO□ from upstream operations. The facility is planned to be scaled up by 2027.

These developments underscore the accelerating momentum of blue ammonia in global energy strategies, especially in Asia-Pacific and the Middle East.

Market Acquisitions and Mergings
In early 2025, Yara International and Saudi Aramco announced a joint venture to establish one of the world's largest blue ammonia facilities in Jubail Industrial City. This $2.5 billion partnership aims to produce over 1.2 million tons annually by 2028, using carbon capture and advanced hydrogen reforming.

CF Industries also finalized its acquisition of a Texas-based hydrogen tech startup in March 2025, gaining proprietary autothermal reforming (ATR) technology to improve carbon efficiency in blue ammonia production.

These mergers and strategic acquisitions aim to create vertical integration, reduce production costs, and secure early dominance in the export-driven blue ammonia supply chain.

Blue ammonia Market Opportunities :

The blue ammonia sector is ripe with opportunities as countries seek reliable carriers for hydrogen in long-distance trade. Key growth avenues include:

Power Generation: Blue ammonia's ability to co-fire with coal in power plants offers immediate decarbonization without infrastructure overhaul.

Shipping Fuel: IMO's 2050 emissions targets make ammonia a promising zero-carbon alternative for long-haul shipping routes.

Asia-Pacific Demand: Japan and South Korea are aggressively sourcing low-carbon fuels to meet energy security and climate goals.

Tax Incentives: U.S. Inflation Reduction Act (IRA) offers tax credits for low-carbon hydrogen and ammonia producers, boosting domestic growth.

Additionally, the development of integrated value chains (from carbon capture to export terminals) offers long-term scalability and market stability.

Latest News: USA -

In July 2025, the U.S. Department of Energy awarded $110 million in funding to blue ammonia pilot projects in Texas and Louisiana. The grants support infrastructure buildout, carbon capture tech, and domestic supply of low-carbon hydrogen derivatives.

Earlier this year, CF Industries expanded its blue ammonia plant in Donaldsonville, Louisiana, targeting 900,000 metric tons of annual production by 2027. The project benefits from strong state-level incentives and proximity to Gulf export ports.

The U.S. is also exploring blue ammonia exports to Japan and Europe through public-private partnerships, establishing itself as a key transatlantic supplier.

Latest News: Japan -

In June 2025, Japan's Ministry of Economy, Trade and Industry (METI) unveiled a new roadmap to secure 3 million tons of blue ammonia annually by 2030. The initiative includes long-term offtake contracts with Middle East suppliers and incentives for co-firing ammonia in domestic power plants.

JERA, in collaboration with ADNOC and Mitsui, is scaling up ammonia imports through newly built storage terminals at the Hekinan Power Station. Japan is also investing in ammonia-fueled ships and bunker stations under its Green Growth Strategy.

These efforts are aligned with Japan's hydrogen import ambitions and its vision to become a global leader in ammonia-based clean energy.

Blue Ammonia Market Segmentation -

By Technology

Steam Methane Reforming (SMR) with Carbon Capture

Auto-Thermal Reforming (ATR)

Partial Oxidation (POX)

By End-Use

Power Generation

Marine Fuel

Industrial Feedstock

Fertilizer Production

Hydrogen Carrier

By Region

North America

Europe

Asia-Pacific

Latin America

Middle East & Africa

Blue Ammonia Market Key Players :-

The competitive landscape is led by both traditional ammonia producers and new energy giants. Key players include:

ADNOC

Yara International

Ma’aden

OCI Global

CF Industries Holdings, Inc.

QAFCO

Uniper SE

Saudi Arabian Oil Co. (Aramco)

Shell Plc

LSB Industries

These companies are driving investments in carbon capture, hydrogen reforming, and global trade infrastructure, aiming to anchor their leadership in the emerging blue ammonia economy.

Conclusion :-

As the energy transition accelerates, blue ammonia is rapidly evolving from a conceptual low-carbon fuel into a viable solution for decarbonizing global supply chains. With surging investments, international partnerships, and expanding end-use applications, the market is expected to reshape the future of clean energy. Countries like the U.S., Japan, and Saudi Arabia are at the forefront, setting the stage for blue ammonia to emerge as a key pillar in global decarbonization efforts.

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Sai Kumar
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