

Global Low-carbon Ammonia Fuel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-carbon Ammonia Fuel market size is expected to reach \$ 373 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

Low-carbon ammonia fuel is a clean energy fuel based on ammonia (NH₃) with significantly lower carbon emissions than traditional fossil fuels. Ammonia can be directly combusted or converted into electricity in fuel cells, and it is suitable for power generation, marine propulsion, and industrial heat applications. Low-carbon ammonia is typically produced via green hydrogen (water electrolysis) combined with nitrogen from the air, achieving a low-carbon production process. It is a key fuel in the global transition to low-carbon energy and the hydrogen economy.

In 2025, global Low-carbon Ammonia Fuel approximately 180,316 tons, with an average global market price of around US\$ 1145 per ton. Gross margin is about 47%. The cost is 607 usd. The Production is about 200,000 tons. The future development of low-carbon ammonia fuel will focus on green hydrogen production, combustion efficiency optimization, safe storage and transport, and ammonia energy application systems. With carbon neutrality policies and the promotion of zero-carbon ships and distributed energy systems, the ammonia fuel value chain will become more integrated, including production, storage, transport, and combustion technologies. Technological innovation will improve combustion efficiency, reduce nitrogen oxide emissions, and promote diversified applications such as fuel cells and internal combustion engines.

This report studies the global Low-carbon Ammonia Fuel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-

carbon Ammonia Fuel and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Low-carbon Ammonia Fuel that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low-carbon Ammonia Fuel total production and demand, 2021-2032, (Tons)

Global Low-carbon Ammonia Fuel total production value, 2021-2032, (USD Million)

Global Low-carbon Ammonia Fuel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Low-carbon Ammonia Fuel consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Low-carbon Ammonia Fuel domestic production, consumption, key domestic manufacturers and share

Global Low-carbon Ammonia Fuel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Low-carbon Ammonia Fuel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Low-carbon Ammonia Fuel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Low-carbon Ammonia Fuel market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Yara International, CF Industries, OCI Global, Nutrien, EuroChem, Saudi Aramco, Qatar Fertiliser Company, Ma'aden, PAO NOVATEK, ADNOC Group, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Low-carbon Ammonia Fuel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Low-carbon Ammonia Fuel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low-carbon Ammonia Fuel Market, Segmentation by Type:

Hydrogen Production via Water Electrolysis + Nitrogen Synthesis (Green Ammonia)

Natural Gas Steam Reforming + CCS (Blue Ammonia)

Natural Gas Steam Reforming without CCS (Gray Ammonia)

Global Low-carbon Ammonia Fuel Market, Segmentation by Parameter:

Low Calorific Value Ammonia Fuel: 17 MJ/kg

Medium Calorific Value Ammonia Fuel: 17–19 MJ/kg

High Calorific Value Ammonia Fuel: 19–22 MJ/kg

Global Low-carbon Ammonia Fuel Market, Segmentation by Application:

Power Generation

Marine Fuel

Industrial Heat Sources

Other

Companies Profiled:

Yara International

CF Industries

OCI Global

Nutrien

EuroChem

Saudi Aramco

Qatar Fertiliser Company

Ma'aden

PAO NOVATEK

ADNOC Group

LSB Industries

Equinor

Uniper

IHI Corporation

Mitsubishi Heavy Industries

Air Products

Haldor Topsoe

thyssenkrupp Industrial Solutions

Black & Veatch

CNPC

Toyo Engineering Corporation

Key Questions Answered:

1. How big is the global Low-carbon Ammonia Fuel market?
2. What is the demand of the global Low-carbon Ammonia Fuel market?
3. What is the year over year growth of the global Low-carbon Ammonia Fuel market?
4. What is the production and production value of the global Low-carbon Ammonia Fuel market?
5. Who are the key producers in the global Low-carbon Ammonia Fuel market?
6. What are the growth factors driving the market demand?

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