

Global Clean Energy Ammonia Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Clean Energy Ammonia 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).

In 2025, global Clean Energy Ammonia 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. Clean Energy Ammonia refers to ammonia used as a low-carbon or zero-carbon energy carrier, mainly including green ammonia and blue ammonia. Green ammonia is produced by synthesizing ammonia from hydrogen generated with renewable electricity, resulting in lower carbon emissions, while blue ammonia is produced from fossil-based hydrogen combined with carbon capture, utilization, and storage technologies to reduce emissions. In addition to traditional fertilizer and chemical feedstock uses, clean energy ammonia can serve as a hydrogen carrier, marine fuel, coal-fired power co-firing fuel, industrial boiler fuel, and low-carbon energy source for energy-intensive sectors such as steel and chemicals, making it an important pathway for energy transition and industrial decarbonization.

Clean energy ammonia will develop toward large-scale production, fuel-based applications, global trade, and low-carbon certification systems. As emission reduction demand rises in shipping, power generation, chemicals, and steel industries, ammonia will gradually expand from a traditional chemical feedstock into a clean fuel and hydrogen carrier. Green ammonia will benefit from declining costs of renewable energy, water electrolysis, and ammonia synthesis technologies, while blue ammonia is likely to commercialize earlier in regions with abundant natural gas resources and mature CCUS conditions. Future market priorities will focus on reducing production costs, improving ammonia combustion safety, building port storage and transportation infrastructure, securing long-term international offtake agreements, establishing carbon footprint

accounting, and developing low-carbon certification standards. Overall, clean energy ammonia is expected to move from demonstration projects toward industrial-scale deployment and become an important component of global low-carbon energy trade.

This report studies the global Clean Energy Ammonia production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Clean Energy Ammonia 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 Clean Energy Ammonia that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Clean Energy Ammonia total production and demand, 2021-2032, (Tons)

Global Clean Energy Ammonia total production value, 2021-2032, (USD Million)

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

Global Clean Energy Ammonia consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Clean Energy Ammonia domestic production, consumption, key domestic manufacturers and share

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

Global Clean Energy Ammonia production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Clean Energy Ammonia production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Clean Energy Ammonia 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 Clean Energy Ammonia 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 Clean Energy Ammonia Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Clean Energy Ammonia 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 (Grey Ammonia)

Global Clean Energy Ammonia Market, Segmentation by Parameter:

Low-calorific-value NH₃ fuel: <17 MJ/kg

Medium-calorific-value NH₃ fuel: 17-19 MJ/kg

High-calorific-value NH₃ fuel: 19-22 MJ/kg

Global Clean Energy Ammonia Market, Segmentation by Application:

Power Generating

Ship 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 Clean Energy Ammonia market?
2. What is the demand of the global Clean Energy Ammonia market?
3. What is the year over year growth of the global Clean Energy Ammonia market?
4. What is the production and production value of the global Clean Energy Ammonia market?
5. Who are the key producers in the global Clean Energy Ammonia market?
6. What are the growth factors driving the market demand?

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