

Global Green Ammonia Synthesis Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Green Ammonia Synthesis market size was valued at US\$ 417 million in 2025 and is forecast to a readjusted size of US\$ 13256 million by 2032 with a CAGR of 49.8% during review period.

In 2025, global Green Ammonia capacity 1,000 k Tons, sales reached approximately 501.1 k Tons, with an average market price of around 809 USD/Ton, industrial gross margin 47%.

Green Ammonia refers to ammonia produced by combining renewable hydrogen generated from water electrolysis with nitrogen through the Haber-Bosch synthesis process, representing a key pathway for transforming hydrogen from an industrial intermediate into a globally tradable energy carrier and decarbonized chemical feedstock. Unlike conventional ammonia production based on fossil-based hydrogen, Green Ammonia significantly reduces lifecycle carbon emissions by replacing natural gas reforming with renewable electricity-driven hydrogen production. The technology landscape includes alkaline water electrolysis, proton exchange membrane (PEM) electrolysis, solid oxide electrolysis (SOEC), and renewable-powered dynamic ammonia synthesis. Typical electrolysis systems operate within an electricity consumption range of approximately 50-85 kWh per kilogram of hydrogen, while ammonia synthesis generally requires high-pressure and high-temperature operating conditions of around 150-300 bar and 350-500°C. The key engineering challenges are concentrated around renewable power intermittency, electrolyzer flexibility, hydrogen-nitrogen balancing, and integration with large-scale ammonia storage and logistics systems.

The Green Ammonia value chain spans renewable power generation, hydrogen production, nitrogen separation, ammonia synthesis, storage, transportation, and end-use applications. Upstream participants include renewable energy developers, electrolyzer manufacturers, air separation companies, catalysts suppliers, and process technology providers. Midstream players consist mainly of ammonia producers and integrated energy project developers, while downstream demand is driven by fertilizers, maritime fuels, power generation, industrial decarbonization, and chemical applications. Current commercial deployment is concentrated in regions with abundant renewable resources, where wind and solar power are directly integrated with electrolysis and ammonia synthesis facilities. Europe focuses strongly on Green Ammonia as a maritime fuel and industrial decarbonization solution, while China is developing projects around renewable energy utilization, green chemicals, hydrogen exports, and integrated renewable power systems.

Green Ammonia applications are expanding beyond traditional fertilizer markets toward broader energy and industrial scenarios. In agriculture, Green Ammonia serves as a low-carbon substitute for conventional ammonia used in urea, ammonium nitrate, and compound fertilizer production. In energy markets, ammonia provides an efficient hydrogen carrier because of its relatively high energy density and existing global transportation infrastructure, with liquid ammonia commonly stored at approximately -33°C under atmospheric pressure or under moderate pressure conditions. In maritime transportation, Green Ammonia is emerging as one of the leading zero-carbon fuel candidates alongside methanol and LNG alternatives, particularly for large ocean-going vessels. In power generation, several Asian markets are evaluating ammonia co-firing and dedicated ammonia combustion technologies to reduce emissions from existing thermal power assets.

The competitive landscape of Green Ammonia is characterized by the convergence of traditional ammonia producers, renewable energy companies, and industrial technology suppliers. Established fertilizer companies are leveraging existing ammonia assets to develop early commercial projects, while energy companies are integrating renewable resources with hydrogen and ammonia production capabilities. Technology providers such as process licensors, electrolyzer manufacturers, and engineering companies play a critical role in enabling project execution. Recent commercial structures increasingly combine project investment, long-term offtake agreements, and technology partnerships. For example, global shipping companies and green fuel developers have entered strategic supply agreements involving equity participation and future fuel purchase commitments, accelerating the transition of Green Ammonia from demonstration projects toward commercial-scale supply chains.

The long-term growth drivers of Green Ammonia include global decarbonization policies, maritime fuel transition, renewable energy expansion, and cross-regional energy trading. Near-term challenges remain related to renewable electricity costs, electrolyzer investment intensity, infrastructure development, and certification standards. Future competition will increasingly depend on integrated capabilities across renewable energy sourcing, flexible hydrogen production, ammonia synthesis optimization, logistics infrastructure, and carbon accounting systems. China is positioned as a major project development market due to its renewable energy resources, manufacturing ecosystem, and engineering capabilities, while Europe, Japan, and Korea are expected to maintain strong influence in green fuel standards, international trade frameworks, and high-value end-use applications.

Report Scope

This report is a detailed and comprehensive analysis for global Green Ammonia Synthesis market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Raw Material Green Hydrogen Source and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Green Ammonia Synthesis market size and forecasts, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Green Ammonia Synthesis market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Green Ammonia Synthesis market size and forecasts, by Raw Material Green Hydrogen Source and by Application, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Green Ammonia Synthesis market shares of main players, shipments in revenue (\$ Million), sales quantity (K MT), and ASP (USD/MT), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Green Ammonia Synthesis

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Green Ammonia Synthesis market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Yara, Fertiberia, Skovgaard Energy, Envision Energy, SPIC Jilin Electric Power, Topsoe, Thyssenkrupp, Siemens, CF Industries, Linde Engineering, etc.

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

Market Segmentation

Green Ammonia Synthesis market is split by Raw Material Green Hydrogen Source and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Raw Material Green Hydrogen Source, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Raw Material Green Hydrogen Source

Wind Power Hydrogen Production

Photovoltaic Hydrogen Production

Market segment by Electrolyzer Efficiency

Electrolyzer Efficiency, above 80%

Electrolyzer Efficiency, below 80%

Market segment by Electrolysis Technology

Alkaline Electrolysis

PEM Electrolysis

SOEC Electrolysis

Market segment by Application

Fertilizer

Fuel

Others

Major players covered

Yara

Fertiberia

Skovgaard Energy

Envision Energy

SPIC Jilin Electric Power

Topsoe

Thyssenkrupp

Siemens

CF Industries

Linde Engineering

Vestas

Kepeso Green Energy Technology (Nanjing)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Green Ammonia Synthesis product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Green Ammonia Synthesis, with price, sales quantity, revenue, and global market share of Green Ammonia Synthesis from 2021 to 2026.

Chapter 3, the Green Ammonia Synthesis competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Green Ammonia Synthesis breakdown data are shown at the regional

level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Raw Material Green Hydrogen Source and by Application, with sales market share and growth rate by Raw Material Green Hydrogen Source, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Green Ammonia Synthesis market forecast, by regions, by Raw Material Green Hydrogen Source, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Green Ammonia Synthesis.

Chapter 14 and 15, to describe Green Ammonia Synthesis sales channel, distributors, customers, research findings and conclusion.

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