

Global Green Ammonia Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Green Ammonia market size is expected to reach \$ 8698 million by 2032, rising at a market growth of 56.4% CAGR during the forecast period (2026-2032).

Green Ammonia is evolving from a low-carbon substitute within the conventional ammonia industry into an integrated energy-chemical product connecting renewable power, green hydrogen, fertilizers, basic chemicals, marine fuels, power generation and cross-border hydrogen trade. The market boundary covers anhydrous ammonia synthesized from hydrogen generated using qualifying wind, solar, hydropower and other renewable electricity, combined with nitrogen separated from air and recognized at the manufacturer's ex-factory or manufacturer-sales level. Conventional natural-gas- and coal-based ammonia, CCS-based blue ammonia, low-carbon ammonia that does not satisfy applicable renewable-hydrogen and carbon-intensity requirements, trading markups on externally purchased ammonia, EPC revenue, electrolyser or renewable-energy equipment sales and downstream value created through conversion into urea, ammonium nitrate or other derivatives are excluded. Commercial anhydrous ammonia generally has a purity of at least 99.5%, while selected industrial applications can require 99.8–99.98% or higher. Its atmospheric boiling point is approximately -33.3°C, allowing refrigerated low-pressure or pressurized ambient-temperature storage. The synthesis section continues to rely on the Haber-Bosch process, typically operating at approximately 350–500°C and 100–250 bar. Modern large-scale electrolysis generally consumes about 50–55 kWh of electricity per kilogram of hydrogen, while an integrated Green Ammonia plant typically requires approximately 9–12 MWh of renewable electricity per tonne of ammonia after electrolysis, air separation, compression and synthesis are included. Competitive differentiation therefore depends on renewable-power cost, electrolyser efficiency, renewable intermittency management, hydrogen buffering, synthesis flexibility, plant utilization, certification and logistics rather than

ammonia chemistry alone.

The competitive landscape is beginning to develop a recognizable first tier while remaining substantially less consolidated than the conventional ammonia industry. Envision Energy, SPIC Jilin Electric Power, Yara, Fertiberia and Fertiglobe (ADNOC) together accounted for approximately 57.8% of global Green Ammonia manufacturer revenue in 2025, while the Top 3 represented approximately 50.38%. Envision Energy generated USD 79.89 million of Green Ammonia revenue, equivalent to approximately 33.87% of the global market. SPIC Jilin Electric Power represented approximately 9.89%, while Yara and Fertiberia accounted for approximately 6.63% and 6.11%, respectively. Fertiglobe (ADNOC) represented approximately 1.31%. China Energy Engineering Corporation and Skovgaard Energy remained in the initial ramp-up or demonstration stage during 2025, while other producers represented approximately 41.08% of global revenue. Chinese manufacturers benefit from localized wind, solar, electrolyser, energy-storage, chemical-equipment and EPC supply chains. European producers retain advantages in existing ammonia assets, fertilizer customer relationships, certification and logistics. Competition is consequently shifting from announced capacity toward stable operating loads, certified carbon intensity, effective output and long-term offtake.

By green-hydrogen production pathway, wind-power green hydrogen and wind–solar hybrid green hydrogen were the two dominant feedstock categories in 2025, representing 39.73% and 35.05% of global Green Ammonia sales volume, respectively. Photovoltaic green hydrogen accounted for 18.46%, while hydropower and other green hydrogen represented 6.76%. Green Ammonia based on wind–solar hybrid green hydrogen had an average ex-factory price of approximately USD 818 per tonne in 2025, slightly below the USD 820 per tonne associated with wind-power green hydrogen. Complementary wind and solar generation profiles can raise electrolyser operating hours and reduce the amount of battery or hydrogen storage required to stabilize ammonia synthesis. Photovoltaic green hydrogen-based Green Ammonia averaged approximately USD 856 per tonne, while hydropower and other green hydrogen averaged approximately USD 896 per tonne. Photovoltaic green hydrogen is forecast to achieve a 63.24% volume CAGR from 2026 to 2032, but wind-power green hydrogen and wind–solar hybrid green hydrogen are still projected to account for approximately 38.52% and 35.51% of global Green Ammonia volume in 2032.

Fertilizer remains the principal demand base for Green Ammonia, although chemical and industrial feedstock, power generation, marine fuel, and hydrogen carrier and other applications are expanding more rapidly from lower starting points. Fertilizer consumed

185 thousand tonnes in 2025, equivalent to 65.16% of global Green Ammonia sales, and generated USD 146.36 million of revenue. Its average selling price was approximately USD 791 per tonne, the lowest among the major applications because fertilizer procurement is characterized by large volumes, standardized specifications and strong cost sensitivity. Chemical and industrial feedstock accounted for 16.48% of 2025 volume at an average price of USD 845 per tonne. Power generation represented 8.45% at USD 908 per tonne, marine fuel 6.02% at USD 987 per tonne, and hydrogen carrier and other applications 3.87% at USD 1,029 per tonne. From 2026 to 2032, power generation and marine fuel are forecast to expand at volume CAGRs of 65.01% and 64.99%, respectively, compared with 60.73% for fertilizer. Fertilizer is nevertheless expected to retain approximately 61.9% of global Green Ammonia sales in 2032.

The regional structure of Green Ammonia is increasingly characterized by a separation between resource-oriented production locations and high-value consumption markets. Asia-Pacific accounted for 57.41% of global sales volume in 2025, followed by North America at 19.58%, Europe at 18.32%, Middle East and Africa at 2.78% and Latin America at 1.9%. On the production side, China produced approximately 137.6 thousand tonnes in 2025, representing about 48.47% of global output, while Europe accounted for 23.6%, the Middle East for 12.54% and North America for approximately 4.3%. By 2032, Asia-Pacific sales are projected to reach 5.56 million tonnes, equivalent to approximately 41.2% of global volume; Europe is projected at 3.52 million tonnes and 26.11%; North America at 2.32 million tonnes and 17.18%; and Middle East and Africa at approximately 11.25%. China is projected to continue accounting for approximately 51.06% of global Green Ammonia production in 2032. Japan and South Korea are structurally more dependent on imported Green Ammonia because of less favorable domestic renewable-resource economics, whereas Europe is developing as a premium demand market supported by renewable-fuel certification, fertilizer decarbonization, maritime regulation and carbon pricing.

The upstream value chain is dominated by renewable electricity and green hydrogen, making Green Ammonia fundamentally a power-intensive chemical business. Principal upstream equipment includes wind turbines, photovoltaic modules, power electronics, electrolyzers, deionized-water treatment systems, batteries and hydrogen storage. The chemical section further requires air separation units, nitrogen and hydrogen compression, synthesis-gas compression, Haber-Bosch reactors, catalysts, refrigeration and liquid-ammonia storage. Green hydrogen generally represents the largest component of production cost, while hydrogen economics are governed by electricity cost, electrolyser capital expenditure, electrical efficiency and annual utilization. A low headline renewable-electricity tariff therefore does not automatically translate into low

Green Ammonia cost if intermittency depresses electrolyser utilization or requires excessive storage investment. Wind-solar hybridization, hydrogen buffer storage, short-duration batteries, flexible air separation and flexible ammonia synthesis are increasingly used to optimize system-wide economics.

Midstream manufacturing capability increasingly requires the integration of variable renewable generation with chemical processes historically designed for continuous operation. Conventional Haber-Bosch plants favor stable high-load production, whereas wind and solar generation fluctuate across minutes, hours and seasons. Green Ammonia projects must coordinate electrolyser turndown, hydrogen-buffer inventory, air-separation response, synthesis-loop minimum load, compressor operating windows and catalyst-bed thermal stability. Quality control covers hydrogen purity, nitrogen-to-hydrogen ratio, moisture, oxygen and other trace impurities, synthesis pressure, recycle-gas composition and final ammonia specifications. Certification adds another operating layer by requiring traceable renewable-power attributes and lifecycle-emissions data. Fertilizer producers, chemical companies, utilities, shipping companies and energy traders increasingly procure Green Ammonia through long-term offtake agreements specifying minimum volumes, carbon intensity, certification, delivery points and pricing mechanisms.

The 2026–2032 industry cycle will be defined by a transition from announced capacity to final investment decisions, construction completion, ramp-up, certification and effective offtake. Large Chinese wind-solar-hydrogen-ammonia projects have already entered industrial operation, major Middle Eastern export projects are progressing through late-stage construction, and million-tonne Indian projects are moving through investment and execution. Europe is increasingly focused on decarbonizing existing ammonia assets, developing import infrastructure and enforcing renewable-fuel and carbon-intensity rules. A large proportion of the global project pipeline still lacks final investment decisions or long-term offtake, so actual supply growth will increasingly concentrate in projects combining low-cost renewable resources, robust engineering, port access, credible certification pathways and investment-grade buyers. Fertilizer will remain the largest baseload demand source, while power generation and marine fuel provide faster incremental growth. Green Ammonia is consequently evolving from a fertilizer feedstock into an internationally traded renewable molecule serving chemical, fuel and hydrogen-carrier functions.

Report Scope

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

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

Highlights and key features of the study

Global Green Ammonia total production and demand, 2021-2032, (K MT)

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

Global Green Ammonia production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Green Ammonia consumption by region & country, CAGR, 2021-2032 & (K MT)

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

Global Green Ammonia production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Green Ammonia production by Renewable Electricity Source for Green Hydrogen Production, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Green Ammonia production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Green 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 Envision Energy, SPIC Jilin Electric Power, Yara, Fertiliberia, Fertiliglobe (ADNOC), China Energy Engineering Corporation, Skovgaard Energy, 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 Green Ammonia market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by manufacturer, by Renewable Electricity Source for Green Hydrogen Production, 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 Green Ammonia Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Green Ammonia Market, Segmentation by Renewable Electricity Source for Green Hydrogen Production:

Wind Power Green Hydrogen

Wind–Solar Hybrid Green Hydrogen

Photovoltaic Green Hydrogen

Hydropower and Other Green Hydrogen

Global Green Ammonia Market, Segmentation by Electrolyzer Efficiency:

Electrolyzer Efficiency, above 80%

Electrolyzer Efficiency, below 80%

Global Green Ammonia Market, Segmentation by Electrolysis Technology:

Alkaline Electrolysis

PEM Electrolysis

SOEC Electrolysis

Global Green Ammonia Market, Segmentation by Application:

Fertilizer

Chemical and Industrial Feedstock

Power Generation

Marine Fuel

Hydrogen Carrier and Others

Companies Profiled:

Envision Energy

SPIC Jilin Electric Power

Yara

Fertiberia

Fertiglobe (ADNOC)

China Energy Engineering Corporation

Skovgaard Energy

Key Questions Answered

1. How big is the global Green Ammonia market?
2. What is the demand of the global Green Ammonia market?
3. What is the year over year growth of the global Green Ammonia market?
4. What is the total value of the global Green Ammonia market?
5. Who are the Major Players in the global Green Ammonia market?
6. What are the growth factors driving the market demand?

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