

## **North America Green Ammonia Market Report and Forecast 2025-2034**

Market Report | 2025-06-30 | 175 pages | EMR Inc.

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### **Report description:**

The North America green ammonia market size reached approximately USD 81.00 Million in 2024. The market is projected to grow at a CAGR of 53.70% between 2025 and 2034, reaching a value of around USD 5959.69 Million by 2034.

### Key Trends in the Market

Ammonia (NH<sub>3</sub>) is a pungent gas widely employed in the production of agricultural fertilisers, meanwhile, green ammonia is a type of ammonia produced using renewable energy sources and a sustainable, environmentally friendly process. Green ammonia possesses an identical chemical composition to its conventional counterpart.

- In recent years, the increasing importance of combating climate change has significantly impacted the North America green ammonia market growth. Governments, industries, and consumers alike are increasingly recognising the critical need to transition away from carbon-intensive practices towards more sustainable alternatives. Green ammonia, produced from renewable energy sources, stands as a promising solution to reduce greenhouse gas emissions, particularly in heavy industrial and transportation sectors.

- The increasing agricultural production presents itself as one of the key North America green ammonia market trends. The agriculture sector stands as the major consumer of ammonia-based fertilisers, and the increasing demand for sustainable and environmentally conscientious farming methodologies has prompted a transition towards fertilisers derived from green ammonia, which is expected to substantially enhance the growth of the market.

- The production of green ammonia heavily relies on the efficiency and scalability of electrolysis technology. Recent strides in this technology have propelled the North America green ammonia market demand, leading to the adoption of more cost-effective and energy-efficient processes, making green ammonia production increasingly viable.

### Market Segmentation

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"North America Green Ammonia Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

#### Breakup by Technology

- Alkaline Water Electrolysis
- Proton Exchange Membrane

#### Breakup by End-Use

- Fertiliser
- Chemical and Petrochemicals
- Utilities
- Marine Transport
- Others

#### Breakup by Region

- United States of America
- Canada

#### Market Share by Technology

According to the North America green ammonia market analysis, the proton exchange membrane (PEM) technology is likely to experience increased application owing to the growing awareness surrounding the benefits of this technology. Besides its compact design, benefits of PEM electrolyzers include an exceptional efficiency, coupled with high current densities achievable at low voltages.

Furthermore, favourable government subsidies directed towards the advancement of green and clean energy production, coupled with amplified research and development efforts in fuel cell initiatives, are anticipated to favour the growth of this segment.

#### Market Share by End-Use

The marine transportation sector emerged as the leading end use industry, accounting for a substantial portion of the North America green ammonia market share. The increasing opportunity for green ammonia applications within the sector can be primarily attributed to the escalating global energy crisis and environmental degradation, prompting a heightened demand for environmentally sustainable fuel alternatives. This change in interest has led to a shift in demand from traditional energy sources to renewable alternatives.

#### Competitive Landscape

The comprehensive EMR report provides an in-depth assessment of the market based on Porter's five forces model along with giving a SWOT analysis. The report gives a detailed analysis of the following key players in the North America green ammonia market, covering their competitive landscape and the latest developments like mergers, acquisitions, investments, and expansion plans.

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CF Industries Inc.

CF Industries Inc. is a global leader in the production and distribution of essential nitrogen-based fertiliser and other nitrogen products. Established in 1946 and headquartered in Illinois, United States, the company plays a vital role in supporting agricultural productivity by providing critical nutrients required for optimal plant growth.

Yara International

Yara International is a prominent multinational corporation recognised as a global leader in crop nutrition and agricultural solutions. Established in 1905 and headquartered in Norway, Yara has cultivated a distinguished reputation for its contributions to sustainable agriculture and food security worldwide. The company's extensive portfolio encompasses a wide array of crop nutrition products, including fertilisers, industrial products, and environmental solutions.

ITM Power PLC

ITM Power PLC is a company that specialises in the design, development, and manufacturing of hydrogen energy solutions. Established in 2001 and headquartered in Sheffield, United Kingdom, ITM Power has garnered recognition as a leading force in the advancement of sustainable hydrogen production and storage technologies. The company has significant expertise in the creation of electrolysis systems, a critical technology to produce green hydrogen.

Other key players in the market are Nel Hydrogen, Excel Group, LSB Industries, Iberdrola S.A., OCI Global, and Greenfield Nitrogen LLC., among others.

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