

## **Ammonia Market Size, Share and Growth Analysis Report - Forecast Trends and Outlook (2025-2034)**

Market Report | 2025-07-21 | 156 pages | EMR Inc.

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### **Report description:**

The global ammonia market reached a volume of approximately 194.80 MMT in 2024. The market is assessed to grow at a CAGR of 1.90% in the forecast period of 2025-2034 to reach a volume of around 235.14 MMT by 2034.

#### Ammonia Market Growth

Ammonia refers to a gas with the chemical formula of  $\text{NH}_3$ , and it is a combination of nitrogen and hydrogen. The characteristics of ammonia include a colourless appearance, pungent smell, and dissolution in water to offer an alkaline solution. The gas does not contribute to ozone depletion, global warming or other environmental impacts when released into the atmosphere, therefore is considered an environmentally friendly refrigerant. It has a very limited atmospheric lifetime and so is biodegradable.

The ammonia market outlook look promising as the total production capacity is expected to increase from 238 million metric tonnes per annum in 2022 to 311 million metric tonnes by 2030, driven by over 100 new ammonia plants in development. Furthermore, ammonia is widely used as a fertiliser in agricultural sector. With the high rate of population growth worldwide, there is increased pressure on farmers everywhere to significantly increase agricultural output to keep up with the rising demand for various types of grain and food crops. This necessitates a substantial amount of fertiliser, which is produced using ammonia.

#### Key Trends and Developments

Government schemes to boost green ammonia production, increasing use as a refrigerant, and growing usage of ammonia in multiple end-use sectors are factors supporting the ammonia market expansion

June 2024

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AM Green has secured CertifHy EU RFNBO pre-certification for its green ammonia project in Kakinada, India. The project aims to increase production capacity to five million tonnes per annum of green ammonia by 2030, equivalent to one million tonne per annum of hydrogen.

June 2024

Amogy and Plastic 2 Green have partnered to develop ammonia energy solutions. This partnership is expected to accelerate the adoption of ammonia energy solutions globally.

June 2024

Sembcorp Green Hydrogen Pte Ltd, a Singaporean company, has signed a Heads of Terms (HoT) with Sojitz Corporation and Kyushu Electric Power Co Inc. to export green ammonia from a plant in India to Japan, which will export 200,000 metric tonnes of green ammonia annually.

March 2023

Casale SA signed an agreement with Ferkenesco Management Limited and Enter Engineering Pte to construct an ammonia-based fertiliser plant in Uzbekistan. The plant is expected to produce 495,000 tonnes of ammonia per year and will be completed by the first half of 2025.

Growing usage of ammonia in multiple end-use sectors

The rising usage of ammonia in various end-use sectors, such as agriculture, textile, mining, pharmaceutical, and refrigeration, is one of the key trends driving ammonia market growth. For instance, ammonia is predominantly used as a nitrogenous fertiliser in agriculture due to its higher solubility than organic fertilisers.

Favourable government schemes to boost green ammonia production

The government initiatives to boost the production of green ammonia and ensure the environmentally sustainable energy security of the countries are likely to aid the ammonia market development. Green ammonia, produced using renewable energy sources like solar, wind, or hydroelectric power have a lower carbon footprint.

Strategic initiatives by market players to promote clean ammonia

By shifting towards clean ammonia, countries with limited fossil fuel resources can reduce their reliance on imported crude oil and natural gas, enhancing their energy security. Technological advancements in electrolysis have also made the production of clean ammonia more feasible and cost-effective. In May 2023, Nutrien Ltd. evaluated the Geismar, LA site to construct the world's largest clean ammonia facility.

Ammonia Market Trends

Direct emissions from ammonia production amount to 450 Mt CO<sub>2</sub>, and indirect emissions are around 170 Mt CO<sub>2</sub> per year. This is rising the demand for low-carbon green ammonia, produced using green hydrogen and water electrolysis. Moreover, government policies like the Inflation Reduction Act in the US and carbon pricing mechanisms in Europe are expected to improve the economics of green ammonia. As per industry reports, over 10 million tonnes of new green ammonia production capacity has been announced in the last year, which can augment overall ammonia market growth.

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Additionally, the restriction on chlorine and fluorine-containing refrigerants is resulting in the rising utilisation of ammonia as a refrigerant in food preservation and air-conditioning processes, which is further increasing the market growth. Moreover, there is an increased adoption of ammonia as a zero-carbon fuel by the maritime sector to replace the use of fossil fuels in marine engines. A study conducted by Sphera in June 2024, commissioned by the Society for Gas as a Marine Fuel, has found that using ammonia as a marine fuel can reduce greenhouse gas emissions by up to 61%, which can help meet International Maritime Organisation's (IMO) GHG reduction targets.

#### Ammonia Industry Segmentation

The EMR's report titled "Ammonia Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

##### Market Breakup by Type

- Liquid
- Gas

##### Market Breakup by End Use

- Agriculture
- Textile
- Mining
- Pharmaceutical
- Refrigeration
- Others

##### Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

#### Ammonia Market Share

Agriculture, textile, mining, pharmaceutical, and refrigeration are the major end uses in the market

The agriculture sector occupies a significant portion of the market share. There is a rising injection of ammonia directly into the soil using tractor-drawn knives and shanks to place it below the soil surface and avoid its release in vapour form. It binds the air-borne nitrogen, which is an essential crop nutrient. Thus, ammonia gas plays a critical role in crop production. Also, it is used to produce urea, a protein source in livestock feeds. Moreover, it is used as an antifungal agent on certain fruits, pre-harvest cotton defoliant, and as a preservative for storing high-moisture corn.

In the textile sector, ammonia is utilised for dyeing cotton, wool, and silk. It also serves as a catalyst in the production of synthetic resins and fibres, such as acrylic fibres. As per ammonia market analysis, the mining sector uses ammonia to extract minerals like

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copper, molybdenum, and nickel from their ores. The pharmaceutical sector leverages ammonia in drug production, particularly for drugs that prevent bacterial growth. It's also used in clinical settings as a stimulant to avoid fainting.

Liquid and gas are the different types of ammonia in the market, both having equal market share

Liquid ammonia segment in ammonia market report, is a nonaqueous ionising solvent that is obtained by compressing gaseous ammonia. It has a low melting point and acts as a better solvent for organic compounds. It is safe to handle and avoids the hazards that are associated with the use of gaseous ammonia. On the other hand, gaseous ammonia is a non-flammable gas that is commonly used as a refrigerant in various applications owing to its energy efficiency and low cost.

#### Ammonia Market Analysis by Region

Asia-Pacific Region is expected to dominate the market due to increasing demand and availability of low-cost feedstock

The Asia Pacific is one of the leading markets, owing to the increasing agricultural activities and the adoption of ammonia-based fertilisers in the region. Additionally, the government initiatives to ensure green ammonia for the environmentally sustainable energy security of the APAC countries are likely to aid the ammonia market share in the region. For instance, in February 2023, the Government of India notified the Green Ammonia Policy, which is a major policy enabler for producing green ammonia using renewable sources of energy to offer clean fuel.

Meanwhile, the initiatives taken by the market players in decarbonising ammonia production facilities by 2030 are expected to aid the market expansion in Europe. In February 2021, Copenhagen Infrastructure Partners, along with A.P. Moller-Maersk, announced plans to establish the Power-to-X facility, Europe's largest production facility of green ammonia. The green ammonia produced by the facility will be used as a green fertiliser by the agricultural sector and as a sustainable fuel by the shipping sector.

#### Leading Companies in the Ammonia Market

Market players are focused on sustainable production and strategic investments for market expansion

##### Yara International ASA

Yara International ASA is based in Oslo, Norway and was founded in 1905 as Norsk Hydro. It later de-merged as Yara International ASA in 2004. It offers nitrogen-based mineral fertilisers and has operations in more than 60 countries and sells its products to about 150 countries around the world.

##### CSBP Limited

CSBP Limited was founded in 1910 and is headquartered in Kwinana, Western Australia. It is the largest global supplier of explosive-grade ammonium nitrate. The company also manufactures ammonia, delivers fertilisers, and nutritional management solutions to growers.

##### CF Industries Holdings, Inc.

CF Industries Holdings, Inc. is a leading global fertiliser company that was founded in 1946 and is headquartered in Illinois, United States. The company produces and distributes nitrogen and phosphate fertilisers, with operations in the United States, Canada, and Europe.

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Koch Fertilizer, LLC

Koch Fertilizer, LLC was founded in 1989 and is headquartered in Kansas, United States. It offers a full line of fertilisers designed to boost crop performance. Company's product portfolio includes ammonia, urea, UAN, phosphate, potash, and sulfur-based products.

Other key players in the global ammonia market include GROUP DF, CASCALE SA, OCI N.V., Acron Group, BASF SE, SABIC, Indian Farmers Fertiliser Cooperative (IFFCO), and Nutrien Ltd, among others.

More Insights On

Asia Pacific Ammonia Market

Green Ammonia Market

Indian Ammonia Market

North America Green Ammonia Market

Southeast Asia Ammonia Market

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