

Green Ammonia Market Analysis with Size, Growth Drivers, Trends and Key Players at Douglas Insights

The key players in the market are Siemens AG, thyssenkruppNel, MAN Energy Solutions, Green Hydrogen Systems, McPhy Energy, Electrochaea, Hydrogenics.

ISLE OF MAN, October 18, 2022 /EINPresswire.com/ -- The [green ammonia market](#) is growing rapidly as the world looks for cleaner sources of energy. Ammonia has been used in fertilizers, manufacture of plastics, textiles, pesticides, dyes and explosives for years, but it is now being considered as a potential fuel for the future.

What is Green Ammonia?

The pungent gas ammonia is commonly used in the production of fertilisers. Green ammonia production is the production of ammonia from renewable and carbon-free resources.

Using hydrogen from electrolysis of water and air-separated nitrogen is one method for producing green ammonia. These are then fed into the Haber process (also known as the Haber-Bosch process), which is powered by renewable energy. Hydrogen and nitrogen react at high temperatures and pressures in the Haber process to produce ammonia (NH₃).

However, ammonia production is not currently a "green" process. Typically, it is produced from methane, water, and air by means of steam methane reforming (SMR) (to produce hydrogen) and the Haber process. SMR accounts for approximately 90% of carbon dioxide production. This process is very energy intensive and accounts for approximately 1.8% of global carbon dioxide

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Green Ammonia Market Size Analysis:

The green ammonia market size is expected to reach USD XX Million by 2028, from USD XX Million in 2020, at a CAGR of 54% during the forecast period. The growth of the green ammonia market is driven by the increasing demand for sustainable hydrogen production and the growing adoption of renewable energy sources.

Ammonia is a key ingredient in the production of fertilizers, and its demand is expected to grow in line with the increasing need for food security. The use of ammonia as a fuel source is also gaining traction, as it offers a cleaner and more efficient alternative to traditional fossil fuels.

Government initiatives to promote the use of renewable energy sources are also driving the growth of the green ammonia market. For instance, the European Union has set a target to increase its share of renewable energy to 27% by 2030. This target is expected to boost investments in renewable energy projects and support the growth of the green ammonia market.

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Green Ammonia Market Drivers:

Increasing investments in green fuel and large-scale green energy plans drive the green Ammonia market. In addition, increasing government strictness regarding the reduction of greenhouse gas emissions from conventional ammonia methods drives interest in green ammonia. Moreover, ammonia is extensively used in multiple end-use industries namely, fertilisers, dyes, fabrics, explosives and pesticides.

The need for decarbonization is one of the key drivers for the green ammonia market. The Paris Agreement, which was signed by 196 countries in 2015, calls for limiting the global average temperature increase to below 2°C. This requires a substantial reduction in greenhouse gas emissions.

Another driver for the green ammonia market is the increasing demand for sustainable fertilizers. Ammonia is a key ingredient in many fertilizers, and its use helps to improve crop yields. However, the use of traditional ammonia-based fertilizers also results in emissions of greenhouse gases. As such, there is a growing demand for environmentally friendly alternatives, such as green ammonia.

Finally, the rising cost of traditional energy sources is also driving interest in green ammonia. Natural gas prices have been volatile in recent years, and this has made it difficult for fertilizer

manufacturers to predict their costs. Green ammonia offers a more stable price point, making it an attractive option for those looking to reduce their exposure to energy price fluctuations.

Regional Outlook:

North America is anticipated to be a major contributor to the global green ammonia market owing to the presence of several large-scale fertilizers and chemicals manufacturers in the region. The U.S. Environmental Protection Agency (EPA) has set strict regulations regarding emission of greenhouse gases, which is expected to drive the adoption of green ammonia in the country. Europe is another significant market for green ammonia due to the presence of leading players such as Yara International ASA and BASF SE. Asia Pacific is expected to be one of the fastest-growing markets for green ammonia on account of rapid industrialization and urbanization in countries such as China, India, and Japan.

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Green Ammonia Market Keyplayers Analysis:

The green ammonia market is expected to be driven by the increasing demand for sustainable and eco-friendly products. The key players in the market are Siemens AG, thyssenkruppNel, MAN Energy Solutions, Green Hydrogen Systems, McPhy Energy, Electrochaea, Hydrogenics, ITM Power, Uniper, Yara International. These companies are engaged in the production of green ammonia using renewable energy sources such as wind and solar power. They are also investing in R&D activities to develop new technologies for the production of green ammonia.

Key Questions Answered In This Report

- Covid 19 impact analysis on global Green Ammonia industry.
- What are the current market trends and dynamics in the Green Ammonia market and valuable opportunities for emerging players?
- What is driving Green Ammonia market?
- What are the key challenges to market growth?
- Which segment accounts for the fastest CAGR during the forecast period?
- Which product type segment holds a larger market share and why?
- Are low and middle-income economies investing in the Green Ammonia market?
- Key growth pockets on the basis of regions, types, applications, and end-users
- What is the market trend and dynamics in emerging markets such as Asia Pacific, Latin America, and Middle East & Africa?

Unique data points of this report

- Statistics on Green Ammonia and spending worldwide
- Recent trends across different regions in terms of adoption of Green Ammonia across

industries

- Notable developments going on in the industry
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- Comparative scenario for all the segments for years 2018 (actual) and 2031 (forecast)

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