

The Global Market for Green Ammonia 2024-2034

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Abstracts

The unique attributes of green ammonia make it one of the most versatile options among emerging renewable fuels for application in diverse markets. Green ammonia could see exponential growth in the next decade as costs fall and decarbonization pressures increase. The number of green ammonia projects, current and planned, has surged in the last 12 months as more companies invest in renewable hydrogen and ammonia production. Sustained innovation across the value chain combined with well-coordinated policy and investment can enable green ammonia to make major contributions in building a carbon-neutral global energy system.

Applications and markets for green ammonia include:

As a net-zero fuel for the maritime shipping industry.

Carbon-free feedstock for fertilizer production. Converting to green ammonia feedstock reduces emissions from agricultural production.

Enabling renewable power generation in remote islands and off-grid locations as a sustainable alternative to diesel fuel.

As a hydrogen vector to store intermittent renewable energy from wind and solar projects and transport it over long distances.

Direct use in fuel cells for heavy-duty transportation applications including trucks, trains, and marine vessels.

As a substitute for coal and natural gas to provide electricity and district heating while eliminating fossil fuel emissions.

An additive to reduce nitrogen oxide (NOx) emissions from coal-fired power plants and improve combustion efficiency.

Report contents include:

Analysis of green ammonia production pathways and technologies.

Review of supportive regulations and policy mechanisms promoting renewable ammonia.

Evaluation of current and projected green ammonia production costs.

Life cycle analysis (LCA).

Detailed green ammonia market analysis covering:

Key growth drivers and market challenges.

Recent industry developments and project announcements.

Profiles of major green ammonia projects globally.

SWOT analysis of the market.

Assessment of market segments including transportation, fertilizers, hydrogen storage, and power generation.

Examination of the competitive landscape and value chain.

Global and regional market size estimates and forecasts to 2040. Segmented by end-use application and geography.

Future outlook for the emerging green ammonia market.

Profiles of 49 companies across the supply chain. Companies profiled include Engie, EverWind Fuels, Fuella, FuelPositive Corp., Green NorthH2 Energy, Iberdrola, Jupiter Ionics, NEOM Green Hydrogen Company, SK Ecoplant Co., Sumitomo, and Yara.

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