

# **Global Green Ammonia Market Size study & Forecast, by Technology (Proton Exchange Membrane, Alkaline Water Electrolysis, Solid Oxide Electrolysis) by Application (Transportation, Power Generation, Industrial Feedstock, Others) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Green Ammonia Market is valued approximately USD 0.17 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 72.90% over the forecast period 2023-2030. Green ammonia is produced using renewable energy sources, such as solar or wind power, instead of fossil fuels. Ammonia (NH<sub>3</sub>) is a compound made up of nitrogen and hydrogen and is commonly used in various industries, including agriculture, refrigeration, and chemical manufacturing. The key factors driving the market growth is increased need for eco-friendly fertilizers with rising agricultural production, enforcement of regulatory policies and provision of incentives to reduce GHG emissions, environmental concerns, and need to store renewable energy for longer term that anticipated to support the market growth during forecast period.

Moreover, growing investment in renewable energy plays a crucial role in supporting the growth of the Green Ammonia market. The Green Ammonia is produced through a process called electrolysis, that involves splitting water into hydrogen and oxygen using electricity. The electricity used in this process can be derived from renewable energy sources such as solar, wind, or hydroelectric power. As the investment in renewable energy increases, the availability of low-cost and clean electricity for electrolysis also increases, making Green Ammonia production more economically viable. According to Statista, in 2020 the new investment in renewable energy worldwide was USD 363 billion and the investment increased significantly and reached USD 495 billion in 2022.

Additionally, potential of ammonia as maritime fuel and increasing focus on building hydrogen-based economy is anticipated to create the lucrative opportunity for the market during forecast period. However, the high initial cost to set up green ammonia plant stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Green Ammonia Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the growing focus on renewable energy, government support and policies, technological advancements and international collaboration and trade opportunities. Whereas, the Asia Pacific is expected to grow with the highest CAGR during the forecast period, owing to factors such as the government initiatives and regulations, renewable energy development, decarbonization efforts in industrial sectors, and technological advancements and cost reductions.

Major market player included in this report are:

Fuelpositive Corporation

Haldor Topsoe Inc.

NEL ASA

ThyssenKrupp AG

Siemens AG

CF Industries Holdings, Inc.,

Yara International ASA

BASF SE

Queensland Nitrates Pty Ltd

AMMPower Corp

Recent Developments in the Market:

In August 2022, Uniper SE and EverWind Fuels signed a Memorandum of

Understanding for acquiring green ammonia from EverWind's inaugural manufacturing facility in Nova Scotia.

Global Green Ammonia Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Technology, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Proton Exchange Membrane

Alkaline Water Electrolysis

Solid Oxide Electrolysis

By Application:

Transportation

Power Generation

Industrial Feedstock

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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