

# Green Ammonia Market - 2024-2033

<https://marketpublishers.com/r/G191584B98EDEN.html>

Date: March 2026

Pages: 220

Price: US\$ 2,999.00 (Single User License)

ID: G191584B98EDEN

## Abstracts

The Green Ammonia Market was valued at US\$ 486.45 Million in 2024 and is anticipated to reach US\$ 65,653.44 Million by 2033, at a CAGR of 0.727 from 2026 to 2032.

The report delivers in-depth insights into key market dynamics, including regional growth trends, market segmentation, CAGR projections, and the revenue performance of leading industry players. It also highlights major growth drivers shaping the market landscape. Designed to provide a clear and comprehensive perspective, the report offers a detailed view of the current market size in terms of both value and volume, along with emerging opportunities and the overall development outlook of the Green Ammonia Market.

This report delivers a comprehensive overview of the Green Ammonia Market, with both quantitative and qualitative analyses, to help readers develop growth strategies, assess the competitive landscape, evaluate their position in the current market, and make informed business decisions regarding Green Ammonia Market. The Green Ammonia Market size, estimates, and forecasts are provided in terms of output/shipments (K MT) and revenue (US\$ millions), with 2025 as the base year and historical and forecast data for 2024–2033.

Green Ammonia Market Scope:

By Technology

Alkaline Water Electrolysis (AWE)

Proton Exchange Membrane (PEM) Electrolysis

Solid Oxide Electrolysis (SOE)

Anion Exchange Membrane (AEM)

By Ammonia Synthesis Route

Conventional Haber–Bosch (Renewable Powered)

Modular / Small-Scale Haber–Bosch

Electrochemical Ammonia Synthesis

Plasma-Assisted Ammonia Synthesis

Biomass-Derived Green Ammonia

By Plant Capacity

Pilot & Demonstration Scale (2,000 TPD)

By Renewable Energy Source

Solar-Based

Wind-Based

Hydro-Based

Hybrid (Solar + Wind)

Grid-Connected Renewable Mix

By Business Model

Captive Production (Fertilizer Companies)

Merchant Export-Oriented Projects

Energy Utility-Owned Projects

Public-Private Partnerships

Integrated Green Hydrogen-Ammonia Projects

#### By Distribution Channel

Direct Industrial Supply

Export / International Trade

On-site Captive Consumption

Ammonia-to-Hydrogen Conversion Hubs

#### By Application

Fertilizers

Power Generation

Transportation Fuel

Industrial Feedstock

Data Center Backup Power

Remote Mining & Off-grid Power

Green Steel Reduction

#### Key Players

Yara International ASA

Siemens Energy

CF Industries Holdings, Inc.

Nutrien

OCI Global

Air Products

ACME Group

Fortescue Future Industries

MAN Energy Solutions

ThyssenKrupp AG

ITM Power PLC

Nel Hydrogen / Nel ASA

Green Hydrogen Systems

Orsted

ENGIE

Uniper SE

Mitsui & Co

ReNew Energy Global

Allied Green Ammonia Pty Ltd

BASF SE

## Major Highlights

This report delivers a comprehensive overview of the Green Ammonia Market, with both quantitative and qualitative analyses, to help readers develop growth strategies, assess the competitive landscape, evaluate their position in the current market, and make informed business decisions regarding Green Ammonia Market. The Green Ammonia Market size, estimates, and forecasts are provided in terms of output/shipments (K Sqm) and revenue (US\$ millions), with 2025 as the base year and historical and forecast data for 2024–2033.

This report will assist keyword manufacturers, new entrants, and companies across the industry value chain with information on revenues, production, and average prices for the overall market and its sub-segments, by company, by Type, by Application, and by region.

## Regional Analysis:

North America (U.S., Canada, Mexico)

Europe (U.K., Italy, Germany, Russia, France, Spain, The Netherlands and Rest of Europe)

Asia-Pacific (India, Japan, China, South Korea, Australia, Indonesia Rest of Asia Pacific)

South America (Colombia, Brazil, Argentina, Rest of South America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of Middle East & Africa)

## Partner Identification

Increase Your Customer Base by 3X using our Partner Identification tool

Uncover strategic collaboration opportunities with DataM vetted partners aligned to your ecosystem.

Identify high potential M&A targets based on synergies, market positioning and growth trajectory.

Prioritize partners by strategic fit rather than general capability.

## Why Choose DataM?

**Data-Driven Insights:** Dive into detailed analyses with granular insights such as pricing, market shares and value chain evaluations, enriched by interviews with industry leaders and disruptors.

**Post-Purchase Support and Expert Analyst Consultations:** As a valued client, gain direct access to our expert analysts for personalized advice and strategic guidance, tailored to your specific needs and challenges.

**White Papers and Case Studies:** Benefit quarterly from our in-depth studies related to your purchased titles, tailored to refine your operational and marketing strategies for maximum impact.

**Annual Updates on Purchased Reports:** As an existing customer, enjoy the privilege of annual updates to your reports, ensuring you stay abreast of the latest market insights and technological advancements. Terms and conditions apply.

**Specialized Focus on Emerging Markets:** DataM differentiates itself by delivering in-depth, specialized insights specifically for emerging markets, rather than offering generalized geographic overviews. This approach equips our clients with a nuanced understanding and actionable intelligence that are essential for navigating and succeeding in high-growth regions.

**Value of DataM Reports:** Our reports offer specialized insights tailored to the latest trends and specific business inquiries. This personalized approach provides a deeper, strategic perspective, ensuring you receive the precise information necessary to make informed decisions. These insights complement and go beyond what is typically available in generic databases.

## Target Audience 2026

Manufacturers/ Buyers

Industry Investors/Investment Bankers

Research Professionals

Emerging Companies

## Contents

### **1. METHODOLOGY AND SCOPE**

- 1.1. Research Data
  - 1.1.1. Secondary Data
  - 1.1.2. Primary Data
  - 1.1.3. CAGR Analysis
- 1.2. Market Size Estimation Methodology
  - 1.2.1. Bottom-Up Approach
  - 1.2.2. Top-Down Approach
- 1.3. Market Breakdown & Data Triangulation
- 1.4. Research Assumptions
- 1.5. Limitations

### **2. DEFINITION AND OVERVIEW**

- 2.1. Study Objectives
- 2.2. Market Definition
- 2.3. Market Scope
- 2.4. Stakeholder Analysis
- 2.5. Currency Considered
- 2.6. Study Period

### **3. EXECUTIVE SUMMARY**

- 3.1. Key Takeaways
- 3.2. Top To Bottom Analysis
- 3.3. Market Share Analysis
- 3.4. Data Points from Key Primary Interviews
- 3.5. Data Points from Key Secondary Databases
- 3.6. Market Snapshot
- 3.7. Geographical Snapshot

### **4. DYNAMICS**

- 4.1. Impacting Factors
  - 4.1.1. Drivers
    - 4.1.1.1. Decarbonization and Net-Zero Goals

- 4.1.1.2. Government Policies & Incentives Supporting Green Tech
- 4.1.1.3. Need for Long-Term Energy Storage Solutions
- 4.1.2. Restraints
  - 4.1.2.1. High Capital & Investment Costs
  - 4.1.2.2. Fragmented Regulations & Standardization Gaps
- 4.1.3. Impact Analysis – Drivers and Restraints
- 4.1.4. Opportunity
  - 4.1.4.1. Expansion of Offshore Wind-Powered Production
  - 4.1.4.2. Global Energy Transition & Carbon Neutral Goals
- 4.1.5. Trends
  - 4.1.5.1. Technological Innovation in Electrolysis & Catalysts
  - 4.1.5.2. Large-Scale Production Projects

## **5. INDUSTRY ANALYSIS**

- 5.1. Porter's Five Force Analysis
- 5.2. Political Factors
- 5.3. Social Factors
  - 5.3.1. Increasing Demand for Clean and Sustainable Energy
  - 5.3.2. Support For Decarbonization in Heavy Industries
  - 5.3.3. Rising Acceptance of Hydrogen as a Clean Fuel
- 5.4. Economic Factors
  - 5.4.1. Interest Rates
  - 5.4.2. Disposable Incomes
  - 5.4.3. Inflation
  - 5.4.4. GDP
  - 5.4.5. Exchange Rates
  - 5.4.6. Unemployment Rates
- 5.5. Geopolitical Factors
- 5.6. Supply/Value Chain Analysis
- 5.7. Pricing Analysis
- 5.8. Tariff Analysis
  - 5.8.1. Overview Of Relevant Tariffs
  - 5.8.2. Trade Policies Influencing the Market
  - 5.8.3. Cost Impact Factors
  - 5.8.4. Supply Chain Disruptions
- 5.9. Trade Analysis - Export-Import Scenario
- 5.10. Regulatory Analysis
- 5.11. Technology Landscape

- 5.12. Go-To-Market (GTM) Strategy
- 5.13. Innovation & R&D Trends
- 5.14. Sustainability and ESG Analysis
- 5.15. DMI Opinion

## **6. PREMIUM INSIGHTS**

- 6.1. Potential Customers List
- 6.2. Customer/Consumer Survey
- 6.3. Consumer Purchase Decision Process
- 6.4. Go-To-Market (GTM) Strategy
- 6.5. Key Strategic Initiatives
  - 6.5.1. Emerging Players and Startups
  - 6.5.2. Major Players

## **7. BY TECHNOLOGY**

- 7.1. Introduction
  - 7.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Technology
  - 7.1.2. Market Attractiveness Index, By Technology
- 7.2. Alkaline Water Electrolysis (AWE)\*
  - 7.2.1. Introduction
  - 7.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)
- 7.3. Proton Exchange Membrane (PEM) Electrolysis
- 7.4. Solid Oxide Electrolysis (SOE)
- 7.5. Anion Exchange Membrane (AEM)

## **8. BY AMMONIA SYNTHESIS ROUTE**

- 8.1. Introduction
  - 8.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Ammonia Synthesis Route
  - 8.1.2. Market Attractiveness Index, By Ammonia Synthesis Route
- 8.2. Conventional Haber–Bosch (Renewable Powered)\*
  - 8.2.1. Introduction
  - 8.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)
- 8.3. Modular / Small-Scale Haber–Bosch
- 8.4. Electrochemical Ammonia Synthesis
- 8.5. Plasma-Assisted Ammonia Synthesis

## 8.6. Biomass-Derived Green Ammonia

## 9. BY PLANT CAPACITY

### 9.1. Introduction

9.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Plant Capacity

9.1.2. Market Attractiveness Index, By Plant Capacity

### 9.2. Pilot & Demonstration Scale (2,000 TPD)

## 10. BY RENEWABLE ENERGY SOURCE

### 10.1. Introduction

10.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Renewable Energy Source

10.1.2. Market Attractiveness Index, By Renewable Energy Source

### 10.2. Solar-Based\*

10.2.1. Introduction

10.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)

### 10.3. Wind-Based

### 10.4. Hydro-Based

### 10.5. Hybrid (Solar + Wind)

### 10.6. Grid-Connected Renewable Mix

## 11. BY BUSINESS MODEL

### 11.1. Introduction

11.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Business Model

11.1.2. Market Attractiveness Index, By Business Model

### 11.2. Captive Production (Fertilizer Companies)\*

11.2.1. Introduction

11.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)

### 11.3. Merchant Export-Oriented Projects

### 11.4. Energy Utility-Owned Projects

### 11.5. Public-Private Partnerships

### 11.6. Integrated Green Hydrogen-Ammonia Projects

## 12. BY DISTRIBUTION CHANNEL

### 12.1. Introduction

- 12.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Distribution Channel
- 12.1.2. Market Attractiveness Index, By Distribution Channel
- 12.2. Direct Industrial Supply\*
  - 12.2.1. Introduction
  - 12.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)
- 12.3. Export / International Trade
- 12.4. On-site Captive Consumption
- 12.5. Ammonia-to-Hydrogen Conversion Hubs

### **13. BY APPLICATION**

- 13.1. Introduction
  - 13.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application
  - 13.1.2. Market Attractiveness Index, By Application
- 13.2. Fertilizers\*
  - 13.2.1. Introduction
  - 13.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)
  - 13.2.3. Urea Production
  - 13.2.4. Ammonium Nitrate
  - 13.2.5. Ammonium Phosphate
  - 13.2.6. NPK Fertilizers
  - 13.2.7. Industrial Nitrogen Fertilizers
- 13.3. Power Generation
  - 13.3.1. Ammonia Co-firing
  - 13.3.2. Gas Turbine Fuel
  - 13.3.3. Fuel Cells
  - 13.3.4. Grid-Scale Energy Storage
  - 13.3.5. Peaking Power Plants
- 13.4. Transportation Fuel
  - 13.4.1. Marine Shipping
  - 13.4.2. Heavy-Duty Vehicles
  - 13.4.3. Rail Transport
  - 13.4.4. Aviation (Ammonia-to-Hydrogen)
- 13.5. Industrial Feedstock
  - 13.5.1. Nitric Acid Production
  - 13.5.2. Explosives
  - 13.5.3. Refrigerants
  - 13.5.4. Synthetic Fibers
  - 13.5.5. Hydrogen Carrier

- 13.5.6. Hydrogen Storage & Transport
- 13.5.7. Ammonia Cracking
- 13.6. Data Center Backup Power
- 13.7. Remote Mining & Off-grid Power
- 13.8. Green Steel Reduction

## **14. BY REGION**

- 14.1. Introduction
  - 14.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Region
  - 14.1.2. Market Attractiveness Index, By Region
- 14.2. North America
  - 14.2.1. U.S.
  - 14.2.2. Canada
  - 14.2.3. Mexico
- 14.3. Europe
  - 14.3.1. Germany
  - 14.3.2. UK
  - 14.3.3. France
  - 14.3.4. Russia
  - 14.3.5. Spain
  - 14.3.6. Italy
  - 14.3.7. Norway
  - 14.3.8. Netherlands
  - 14.3.9. Sweden
  - 14.3.10. Denmark
  - 14.3.11. Belgium
  - 14.3.12. Switzerland
  - 14.3.13. Austria
  - 14.3.14. Poland
  - 14.3.15. Finland
  - 14.3.16. Rest of Europe
- 14.4. Latin America
  - 14.4.1. Brazil
  - 14.4.2. Argentina
  - 14.4.3. Rest of Latin America
- 14.5. Asia-Pacific
  - 14.5.1. China
  - 14.5.2. India

- 14.5.3. Japan
- 14.5.4. Australia
- 14.5.5. South Korea
- 14.5.6. New Zealand
- 14.5.7. Indonesia
- 14.5.8. Malaysia
- 14.5.9. Philippines
- 14.5.10. Singapore
- 14.5.11. Thailand
- 14.5.12. Vietnam
- 14.5.13. Rest of Asia-Pacific
- 14.6. Middle East and Africa
  - 14.6.1. UAE
  - 14.6.2. Saudi Arabia
  - 14.6.3. South Africa
  - 14.6.4. Israel
  - 14.6.5. Egypt
  - 14.6.6. Turkey
  - 14.6.7. Qatar
  - 14.6.8. Kuwait
  - 14.6.9. Oman
  - 14.6.10. Bahrain
  - 14.6.11. Rest Of Middle East and Africa

## **15. COMPETITIVE LANDSCAPE**

- 15.1. Competitive Scenario
- 15.2. Market Share Analysis – Global
- 15.3. Market Share Analysis – North America
- 15.4. Market Share Analysis - Europe
- 15.5. Market Share Analysis – Asia-Pacific
- 15.6. Mergers and Acquisitions Analysis
- 15.7. Partner Identification Analysis
- 15.8. Investment & Funding Landscape
- 15.9. Strategic Alliances & Innovation Pipeline

## **16. COMPANY PROFILES**

- 16.1. Yara International ASA\*

- 16.1.1. Company Overview
- 16.1.2. Product Portfolio and Description
- 16.1.3. Revenue Analysis
- 16.1.4. Pricing Analysis
- 16.1.5. SWOT Analysis
- 16.1.6. Recent Developments
  - 16.1.6.1. Major Deals
  - 16.1.6.2. M&A
  - 16.1.6.3. Collaboration
  - 16.1.6.4. Acquisition
  - 16.1.6.5. Joint Ventures
  - 16.1.6.6. Innovations
- 16.1.7. Recent News
  - 16.1.7.1. Events
  - 16.1.7.2. Conferences
  - 16.1.7.3. Symposiums
  - 16.1.7.4. Webinars
- 16.2. Siemens Energy
- 16.3. CF Industries Holdings, Inc.
- 16.4. Nutrien
- 16.5. OCI Global
- 16.6. Air Products
- 16.7. ACME Group
- 16.8. Fortescue Future Industries
- 16.9. MAN Energy Solutions
- 16.10. ThyssenKrupp AG
- 16.11. ITM Power PLC
- 16.12. Nel Hydrogen / Nel ASA
- 16.13. Green Hydrogen Systems
- 16.14. Ørsted
- 16.15. ENGIE
- 16.16. Uniper SE
- 16.17. Mitsui & Co
- 16.18. ReNew Energy Global
- 16.19. Allied Green Ammonia Pty Ltd
- 16.20. BASF SE (LIST NOT EXHAUSTIVE )

## **17. APPENDIX**

17.1. About Us and Services

17.2. Contact Us

## I would like to order

Product name: Green Ammonia Market - 2024-2033

Product link: <https://marketpublishers.com/r/G191584B98EDEN.html>

Price: US\$ 2,999.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G191584B98EDEN.html>