

Blue Ammonia Market by Technology (Steam Methane Reforming (SMR), Autothermal Reforming (ATR), Gas Partial Oxidation), End-use Application (Industrial Feedstock, Power Generation, Transportation) and Region - Global Forecast to 2030

<https://marketpublishers.com/r/B1F76E6D5B24EN.html>

Date: September 2023

Pages: 175

Price: US\$ 4,950.00 (Single User License)

ID: B1F76E6D5B24EN

Abstracts

The global Blue ammonia market is estimated to grow from USD 78 million in 2023 to USD 7,664 million by 2030; it is expected to record a CAGR of 62.3% from 2024 to 2030. Governments are passing favourable rules and providing financial incentives to encourage the use of blue ammonia technologies. These programmes include research and development funding, subsidies for blue ammonia production and infrastructure, and legislation encouraging the use of blue ammonia in various industries. These types of initiatives have contributed to the expansion of the blue ammonia market.

“Steam Methane Reforming: The largest segment of the blue ammonia market, by technology “

Based on sector, the blue ammonia market has been split into three segments: steam methane reforming, autothermal reforming and gas partial oxidation. Steam methane reforming is expected to be the second largest segment during the forecast period followed by autothermal reforming. As companies and regions seek to reduce their carbon footprints, blue ammonia serves as a bridge solution, allowing them to continue using existing natural gas infrastructure while shifting to a more sustainable energy source.

“By application, the industrial feedstock segment is expected to be the largest segment during the forecast period.”

Based on application, the blue ammonia market is segmented into transportation, power generation and industrial feedstock. The industrial feedstock segment is expected to be the largest segment the blue ammonia market during the forecast period owing to the rise in demand from the fertilizer industry. Furthermore, the burgeoning blue ammonia economy in the chemical industry is supported by policymaker initiatives at the European and national levels, with an estimated investment of ? 430 billion necessary by 2030. Methanol output in North America is likely to increase significantly. Companies in North America are forging strategic alliances to boost methane and ammonia production. For example, CF Industries Holdings, Inc. purchased an ammonia production facility in Waggaman from Incitec Pivot Limited.

'Asia Pacific': The second-largest in the blue ammonia market'

Asia Pacific is expected to have the second-largest market share in the blue ammonia market between 2023–2030, followed by Europe and North America. Asia Pacific is a significant market for green technology adoption to meet government targets for cutting GHG emissions. Japan and South Korea have been heavily investing in fuel cell adoption since 2009, owing to the commercialization of Japanese fuel cell micro-CHP products. Investment in the energy sector has expanded dramatically over the previous five years, which is expected to assist the blue ammonia generation market. China and India are the world's most populous countries, and agriculture remains a key element of their economies..

Breakdown of Primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information and assess future market prospects. The distribution of primary interviews is as follows:

By Company Type: Tier 1- 60%, Tier 2- 25%, and Tier 3- 15%

By Designation: C-Level- 35%, Director Levels- 25%, and Others- 40%

By Region: North America- 25%, Europe- 25%, Asia-Pacific - 30 %, Rest of the World – 20%.

Note: Others include sales managers, engineers, and regional managers.

Note: The tiers of the companies are defined on the basis of their total revenues as of 2022. Tier 1: > USD 1 billion, Tier 2: From USD 500 million to USD 1 billion, and Tier 3: The blue ammonia market is dominated by a few major players that have a wide regional presence. The leading players in the blue ammonia market are Linde plc (Ireland), Air products and Chemicals, Inc. (US), Air Liquide (France), Worthington Industries (US), Cryolor (France), Hexagon Purus (Norway), and NPROXX (Netherlands). The major strategy adopted by the players includes new product launches, contracts & agreements and, investments & expansions.

Research Coverage:

The report defines, describes, and forecasts the global blue ammonia market by sector, application, and region. It also offers a detailed qualitative and quantitative analysis of the market. The report comprehensively reviews the major market drivers, restraints, opportunities, and challenges. It also covers various important aspects of the market. These include an analysis of the competitive landscape, market dynamics, market estimates in terms of value, and future trends in the blue ammonia market.

Key Benefits of Buying the Report

The key element driving the blue ammonia market is increased regulations addressing greenhouse gas emissions. Furthermore, governments are expanding their efforts to establish blue ammonia as maritime fuel, as well as their focus on achieving net zero emissions targets by 2050 in the blue ammonia market. Despite the fact that the high production cost of blue ammonia is the biggest difficulty confronting countries in the blue ammonia market.

Product Development/ Innovation: The growing demand for blue ammonia from industries is driving substantial product development and innovation in the blue ammonia market. Companies are investing in the development of modern blue ammonia production technology that is tailored to the specific needs of industry.

Market Development: Linde plc has agreed to supply green blue ammonia to Evonik, a well-known specialty chemicals company, on a long-term basis. Under this agreement, Linde will construct, own, and manage a nine-megawatt alkaline electrolyzer facility on Singapore's Jurong Island. This plant's major output will be green blue ammonia, which Evonik wants to employ in the synthesis of methionine, an essential element in animal feed.

Market Diversification: Edmonton International Airport has selected Air Products & Chemicals, Inc. as the blue ammonia and technology provider for Alberta's first blue ammonia fuel cell passenger car fleet. Air Products will station a mobile blue ammonia refueler at the airport to supply blue ammonia to the Toyota Mirai fleet of blue ammonia fuel cell vehicles.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like include Yara International ASA (Norway), Saudi Arabian Oil Co. (Saudi Arabia), OCI (UK), Ma'aden (Saudi Arabia), and CF Industries Holdings, Inc. (US).

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 INCLUSIONS AND EXCLUSIONS
- 1.4 MARKET SCOPE
 - 1.4.1 MARKET SEGMENTATION
 - 1.4.2 REGIONAL SCOPE
- 1.5 YEARS CONSIDERED
- 1.6 CURRENCY CONSIDERED
- 1.7 LIMITATIONS
- 1.8 STAKEHOLDERS
- 1.9 IMPACT OF RECESSION

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - FIGURE 1 BLUE AMMONIA MARKET: RESEARCH DESIGN
- 2.2 MARKET BREAKDOWN AND DATA TRIANGULATION
 - FIGURE 2 DATA TRIANGULATION
 - 2.2.1 SECONDARY DATA
 - 2.2.1.1 Key data from secondary sources
 - 2.2.2 PRIMARY DATA
 - 2.2.2.1 Key data from primary sources
 - 2.2.2.2 Breakdown of primary interviews
 - FIGURE 3 BREAKDOWN OF PRIMARIES: BY COMPANY TYPE, DESIGNATION, AND REGION
- 2.3 MARKET SIZE ESTIMATION
 - 2.3.1 BOTTOM-UP APPROACH
 - FIGURE 4 BLUE AMMONIA MARKET: BOTTOM-UP APPROACH
 - 2.3.2 TOP-DOWN APPROACH
 - FIGURE 5 BLUE AMMONIA MARKET: TOP-DOWN APPROACH
 - 2.3.3 DEMAND-SIDE ANALYSIS
 - FIGURE 6 METRICS CONSIDERED TO ANALYZE DEMAND FOR BLUE AMMONIA
 - 2.3.3.1 Demand-side assumptions and limitations
 - 2.3.4 SUPPLY-SIDE ANALYSIS
 - 2.3.4.1 Supply-side calculations

FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: SUPPLY-SIDE ANALYSIS 2.4 FORECAST

2.4.1 REALISTIC AND PESSIMISTIC RECESSION IMPACT SCENARIOS

3 EXECUTIVE SUMMARY

TABLE 1 BLUE AMMONIA MARKET SNAPSHOT

FIGURE 8 ASIA PACIFIC TO HOLD LARGEST SHARE OF BLUE AMMONIA MARKET
IN 2024

FIGURE 9 STEAM METHANE REFORMING SEGMENT TO ACCOUNT FOR
LARGEST SHARE OF BLUE AMMONIA MARKET, BY TECHNOLOGY, IN 2030

FIGURE 10 INDUSTRIAL FEEDSTOCK SEGMENT TO CAPTURE LARGEST SHARE
OF BLUE AMMONIA MARKET, BY END-USE APPLICATION, IN 2030

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN BLUE AMMONIA MARKET

FIGURE 11 GROWING FOCUS ON REDUCING GREENHOUSE GAS EMISSIONS TO
CREATE LUCRATIVE OPPORTUNITIES FOR MARKET PLAYERS

4.2 BLUE AMMONIA MARKET, BY REGION

FIGURE 12 BLUE AMMONIA MARKET IN NORTH AMERICA TO GROW AT HIGHEST
CAGR DURING FORECAST PERIOD

4.3 BLUE AMMONIA MARKET IN ASIA PACIFIC, BY END-USE APPLICATION AND
COUNTRY

FIGURE 13 INDUSTRIAL FEEDSTOCK AND CHINA TO DOMINATE ASIA PACIFIC
BLUE AMMONIA MARKET IN 2024

4.4 BLUE AMMONIA MARKET, BY TECHNOLOGY

FIGURE 14 AUTOTHERMAL REFORMING TECHNOLOGY TO HOLD LARGEST
SHARE OF BLUE AMMONIA MARKET IN 2030

4.5 BLUE AMMONIA MARKET, BY END-USE APPLICATION

FIGURE 15 INDUSTRIAL FEEDSTOCK SEGMENT TO ACCOUNT FOR LARGEST
SHARE OF BLUE AMMONIA MARKET IN 2030

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 16 BLUE AMMONIA MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES,
AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Growing focus on reducing greenhouse gas emissions

5.2.1.2 Increasing efforts toward empowering hydrogen economy

5.2.1.3 Rising demand for eco-friendly fertilizers

5.2.1.4 Increasing government investments in commercialization of emission control technologies

5.2.2 RESTRAINTS

5.2.2.1 High cost associated with infrastructure set up for blue ammonia production

5.2.3 OPPORTUNITIES

5.2.3.1 Potential of blue ammonia as maritime fuel

5.2.3.2 Growing demand for blue ammonia to generate power

5.2.4 CHALLENGES

5.2.4.1 Limited awareness about blue ammonia within specific industries

5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.3.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR PROVIDERS OF BLUE AMMONIA

FIGURE 17 REVENUE SHIFT AND NEW REVENUE POCKETS FOR PLAYERS IN BLUE AMMONIA MARKET

5.4 SUPPLY CHAIN ANALYSIS

FIGURE 18 BLUE AMMONIA SUPPLY CHAIN ANALYSIS

5.4.1 TECHNOLOGY PROVIDERS AND EPC CONTRACTORS

5.4.2 FEEDSTOCK SUPPLIERS

5.4.3 BLUE HYDROGEN SUPPLIERS

5.4.4 BLUE AMMONIA PRODUCERS

5.4.5 END USERS

TABLE 2 ROLE OF KEY COMPANIES IN BLUE AMMONIA ECOSYSTEM

5.5 MARKET MAPPING

FIGURE 19 BLUE AMMONIA MARKET MAPPING

5.6 TECHNOLOGY ANALYSIS

5.6.1 RECENT ADVANCEMENTS IN BLUE AMMONIA PRODUCTION PROCESS

5.7 PATENT ANALYSIS

5.7.1 LIST OF MAJOR PATENTS

TABLE 3 BLUE AMMONIA: INNOVATIONS AND PATENT REGISTRATIONS, JULY 2020–MARCH 2023

5.8 TARIFF AND REGULATORY FRAMEWORK

5.8.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 4 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 5 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 6 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.8.2 REGULATORY FRAMEWORK

TABLE 7 BLUE AMMONIA MARKET: REGULATORY FRAMEWORK

5.9 KEY CONFERENCES AND EVENTS, 2023–2024

TABLE 8 LIST OF KEY CONFERENCES AND EVENTS IN BLUE AMMONIA MARKET, 2023–2024

5.10 TRADE ANALYSIS

5.10.1 HS CODE 2814

5.10.1.1 Export scenario

TABLE 9 EXPORT SCENARIO FOR HS CODE 2814, BY COUNTRY, 2020–2022 (USD)

FIGURE 20 HS CODE 2814: EXPORT DATA FOR TOP 5 COUNTRIES, 2020–2022 (USD)

5.10.1.2 Import scenario

TABLE 10 IMPORT SCENARIO FOR HS CODE 2814, BY COUNTRY, 2020–2022 (USD)

FIGURE 21 HS CODE 2814: IMPORT DATA FOR TOP 5 COUNTRIES, 2020–2022 (USD)

5.10.2 HS CODE 280410

5.10.2.1 Export scenario

TABLE 11 EXPORT SCENARIO FOR HS CODE 280410, BY COUNTRY, 2020–2022 (USD)

FIGURE 22 HS CODE 280410: EXPORT DATA FOR TOP 5 COUNTRIES, 2020–2022 (USD)

5.10.2.2 Import scenario

TABLE 12 IMPORT SCENARIO FOR HS CODE 280410, BY COUNTRY, 2020–2022 (USD)

FIGURE 23 HS CODE 280410: IMPORT DATA FOR TOP 5 COUNTRIES, 2020–2022 (USD)

5.11 PRICING ANALYSIS

5.11.1 AVERAGE LEVELIZED COST, BY REGION

TABLE 13 BLUE AMMONIA AVERAGE PRICE PER TON, BY REGION

5.12 CASE STUDY ANALYSIS

5.12.1 QATARENERGY PLANS TO BUILD BLUE AMMONIA PRODUCTION FACILITY TO PROMOTE USE OF CLEAN FUEL AND REDUCE GHG EMISSIONS

5.13 PORTER'S FIVE FORCES ANALYSIS

FIGURE 24 PORTER'S FIVE FORCES ANALYSIS FOR BLUE AMMONIA MARKET

TABLE 14 BLUE AMMONIA MARKET: PORTER'S FIVE FORCES ANALYSIS

5.13.1 THREAT OF SUBSTITUTES

5.13.2 BARGAINING POWER OF SUPPLIERS

5.13.3 BARGAINING POWER OF BUYERS

5.13.4 THREAT OF NEW ENTRANTS

5.13.5 INTENSITY OF COMPETITIVE RIVALRY

5.14 KEY STAKEHOLDERS AND BUYING CRITERIA

5.14.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 25 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3
END-USE APPLICATIONS

TABLE 15 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3
END-USE APPLICATIONS (%)

5.14.2 BUYING CRITERIA

FIGURE 26 KEY BUYING CRITERIA FOR TOP 3 END-USE APPLICATIONS

TABLE 16 KEY BUYING CRITERIA FOR TOP 3 END-USE APPLICATIONS

6 BLUE AMMONIA MARKET, BY TECHNOLOGY

6.1 INTRODUCTION

FIGURE 27 BLUE AMMONIA MARKET, BY TECHNOLOGY, 2024

TABLE 17 BLUE AMMONIA MARKET, BY TECHNOLOGY, 2022–2030 (USD MILLION)

6.2 STEAM METHANE REFORMING

6.2.1 ACCELERATING USE OF SMR TECHNOLOGY IN CHEMICAL AND
INDUSTRIAL PLANTS TO DRIVE MARKET

6.3 AUTOTHERMAL REFORMING

6.3.1 RISING ADOPTION OF ATR TECHNOLOGY IN BLUE AMMONIA PLANTS TO
CREATE OPPORTUNITIES FOR MARKET PLAYERS

6.4 GAS PARTIAL OXIDATION

6.4.1 INCREASING DEMAND FOR GAS PARTIAL OXIDATION TECHNOLOGY IN
ENERGY SECTOR TO FUEL MARKET GROWTH

7 BLUE AMMONIA MARKET, BY END-USE APPLICATION

7.1 INTRODUCTION

FIGURE 28 BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2024

TABLE 18 BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD
MILLION)

TABLE 19 BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030

(KILOTONS)

7.2 POWER GENERATION

7.2.1 SIGNIFICANT DEMAND FROM COUNTRIES LACKING RENEWABLE ENERGY INFRASTRUCTURE TO DRIVE SEGMENTAL GROWTH

TABLE 20 POWER GENERATION: BLUE AMMONIA MARKET, BY REGION, 2022–2030 (USD MILLION)

TABLE 21 POWER GENERATION: BLUE AMMONIA MARKET, BY REGION, 2022–2030 (KILOTONS)

7.3 TRANSPORTATION

7.3.1 POTENTIAL OF BLUE AMMONIA AS FUEL IN MARINE SHIPPING AND RAIL TRANSPORTATION TO CREATE SIGNIFICANT GROWTH OPPORTUNITIES

TABLE 22 TRANSPORTATION: BLUE AMMONIA MARKET, BY REGION, 2022–2030 (USD MILLION)

TABLE 23 TRANSPORTATION: BLUE AMMONIA MARKET, BY REGION, 2022–2030 (KILOTONS)

7.4 INDUSTRIAL FEEDSTOCK

7.4.1 CUSTOMER WILLINGNESS TO PAY FOR GREENER ALTERNATIVES TO BOOST DEMAND FOR BLUE AMMONIA IN INDUSTRIAL SECTOR

TABLE 24 INDUSTRIAL FEEDSTOCK: BLUE AMMONIA MARKET, BY REGION, 2022–2030 (USD MILLION)

TABLE 25 INDUSTRIAL FEEDSTOCK: BLUE AMMONIA MARKET, BY REGION, 2022–2030 (KILOTONS)

8 BLUE AMMONIA MARKET, BY REGION

8.1 INTRODUCTION

FIGURE 29 NORTH AMERICA TO RECORD HIGHEST CAGR IN BLUE AMMONIA MARKET DURING FORECAST PERIOD

FIGURE 30 BLUE AMMONIA MARKET SHARE, IN TERMS OF VALUE, BY REGION, 2024

TABLE 26 BLUE AMMONIA MARKET, BY REGION, 2022–2030 (KILOTONS)

TABLE 27 BLUE AMMONIA MARKET, BY REGION, 2022–2030 (USD MILLION)

8.2 NORTH AMERICA

FIGURE 31 NORTH AMERICA: BLUE AMMONIA MARKET SNAPSHOT

8.2.1 RECESSION IMPACT: NORTH AMERICA

8.2.2 BY TECHNOLOGY

TABLE 28 NORTH AMERICA: BLUE AMMONIA MARKET, BY TECHNOLOGY, 2022–2030 (USD MILLION)

8.2.3 BY END-USE APPLICATION

TABLE 29 NORTH AMERICA: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

TABLE 30 NORTH AMERICA: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (KILOTONS)

8.2.4 BY COUNTRY

TABLE 31 NORTH AMERICA: BLUE AMMONIA MARKET, BY COUNTRY, 2022–2030 (USD MILLION)

TABLE 32 NORTH AMERICA: BLUE AMMONIA MARKET, BY COUNTRY, 2022–2030 (KILOTONS)

8.2.4.1 US

8.2.4.1.1 Abundance of low-cost natural gas to drive market

8.2.4.1.2 Key blue ammonia projects in US

TABLE 33 US: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.2.4.2 Canada

8.2.4.2.1 Increasing investments in liquified natural gas infrastructure to create opportunities for blue ammonia producers

8.2.4.2.2 Key blue ammonia projects in Canada

TABLE 34 CANADA: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.3 EUROPE

8.3.1 RECESSION IMPACT: EUROPE

8.3.2 BY TECHNOLOGY

TABLE 35 EUROPE: BLUE AMMONIA MARKET, BY TECHNOLOGY, 2022–2030 (USD MILLION)

8.3.3 BY END-USE APPLICATION

TABLE 36 EUROPE: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

TABLE 37 EUROPE: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (KILOTONS)

8.3.4 BY COUNTRY

TABLE 38 EUROPE: BLUE AMMONIA MARKET, BY COUNTRY, 2022–2030 (USD MILLION)

TABLE 39 EUROPE: BLUE AMMONIA MARKET, BY COUNTRY, 2022–2030 (KILOTONS)

8.3.4.1 UK

8.3.4.1.1 Stringent environmental regulations and commitment to reduce GHG emissions to drive market

TABLE 40 UK: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030

(USD MILLION)

8.3.4.2 France

8.3.4.2.1 Rising focus on reducing nuclear energy contribution in electricity mix to fuel market

TABLE 41 FRANCE: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.3.4.3 Netherlands

8.3.4.3.1 Increasing adoption of low-carbon fuels to boost demand for blue ammonia
TABLE 42 NETHERLANDS: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.3.4.4 Norway

8.3.4.4.1 Significant efforts of government and industrial players to decarbonize economy to foster demand for blue ammonia

TABLE 43 NORWAY: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.3.4.5 Rest of Europe

TABLE 44 REST OF EUROPE: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.4 ASIA PACIFIC

FIGURE 32 ASIA PACIFIC: BLUE AMMONIA MARKET SNAPSHOT

8.4.1 RECESSION IMPACT: ASIA PACIFIC

8.4.2 BY TECHNOLOGY

TABLE 45 ASIA PACIFIC: BLUE AMMONIA MARKET, BY TECHNOLOGY, 2022–2030 (USD MILLION)

8.4.3 BY END-USE APPLICATION

TABLE 46 ASIA PACIFIC: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

TABLE 47 ASIA PACIFIC: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (KILOTONS)

8.4.4 BY COUNTRY

TABLE 48 ASIA PACIFIC: BLUE AMMONIA MARKET, BY COUNTRY, 2022–2030 (USD MILLION)

TABLE 49 ASIA PACIFIC: BLUE AMMONIA MARKET, BY COUNTRY, 2022–2030 (KILOTONS)

8.4.4.1 Japan

8.4.4.1.1 Rising demand for blue ammonia in power generation to drive market
TABLE 50 JAPAN: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.4.4.2 South Korea

8.4.4.2.1 Enforcement of stringent policies to decarbonize energy sector to boost demand for blue ammonia

TABLE 51 SOUTH KOREA: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.4.4.3 China

8.4.4.3.1 Increasing investments in R&D of blue ammonia technology to fuel market

TABLE 52 CHINA: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.4.4.4 Australia

8.4.4.4.1 Net-zero emission target set by country to encourage adoption of blue ammonia in industrial and energy sectors

TABLE 53 AUSTRALIA: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.4.4.5 Rest of Asia Pacific

TABLE 54 REST OF ASIA PACIFIC: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.5 REST OF THE WORLD (ROW)

8.5.1 RECESSION IMPACT: ROW

8.5.2 BY TECHNOLOGY

TABLE 55 ROW: BLUE AMMONIA MARKET, BY TECHNOLOGY, 2022–2030 (USD MILLION)

8.5.3 BY END-USE APPLICATION

TABLE 56 ROW: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

TABLE 57 ROW: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (KILOTONS)

8.5.4 BY COUNTRY

TABLE 58 ROW: BLUE AMMONIA MARKET, BY COUNTRY, 2022–2030 (USD MILLION)

TABLE 59 ROW: BLUE AMMONIA MARKET, BY COUNTRY, 2022–2030 (KILOTONS)

8.5.4.1 Saudi Arabia

8.5.4.1.1 Presence of top companies, such as Saudi Aramco and Ma'aden, to drive market

TABLE 60 SAUDI ARABIA: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.5.4.2 UAE

8.5.4.2.1 Increasing use of hydrogen to generate electricity to fuel market growth

TABLE 61 UAE: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

8.5.4.3 Other countries

TABLE 62 OTHER COUNTRIES: BLUE AMMONIA MARKET, BY END-USE APPLICATION, 2022–2030 (USD MILLION)

9 COMPETITIVE LANDSCAPE

9.1 OVERVIEW

FIGURE 33 KEY DEVELOPMENTS IN BLUE AMMONIA MARKET, 2019–2023

9.2 INDUSTRY CONCENTRATION OF KEY PLAYERS, 2022

FIGURE 34 KEY PLAYERS IN BLUE AMMONIA MARKET, 2022

9.3 COMPANY EVALUATION FRAMEWORK

TABLE 63 COMPANY EVALUATION FRAMEWORK, 2019–2023

9.4 SEGMENTAL REVENUE ANALYSIS OF TOP 5 COMPANIES

FIGURE 35 SEGMENTAL REVENUE ANALYSIS, 2018–2022

9.5 EVALUATION MATRIX FOR KEY COMPANIES, 2022

9.5.1 STARS

9.5.2 EMERGING LEADERS

9.5.3 PERVASIVE PLAYERS

9.5.4 PARTICIPANTS

FIGURE 36 BLUE AMMONIA MARKET: EVALUATION MATRIX FOR KEY COMPANIES, 2022

9.5.5 COMPANY FOOTPRINT

TABLE 64 TECHNOLOGY: COMPANY FOOTPRINT

TABLE 65 END-USE APPLICATION: COMPANY FOOTPRINT

TABLE 66 REGION: COMPANY FOOTPRINT

9.6 EVALUATION MATRIX FOR STARTUPS/SMES, 2022

9.6.1 PROGRESSIVE COMPANIES

9.6.2 RESPONSIVE COMPANIES

9.6.3 DYNAMIC COMPANIES

9.6.4 STARTING BLOCKS

FIGURE 37 BLUE AMMONIA MARKET: EVALUATION MATRIX FOR STARTUPS/SMES, 2022

9.6.5 COMPETITIVE BENCHMARKING

TABLE 67 BLUE AMMONIA MARKET: LIST OF KEY STARTUPS/SMES

TABLE 68 TECHNOLOGY: STARTUPS/SMES FOOTPRINT

TABLE 69 END-USE APPLICATION: STARTUPS/SMES FOOTPRINT

TABLE 70 REGION: STARTUPS/SMES FOOTPRINT

9.7 RECENT DEVELOPMENTS

9.7.1 DEALS

TABLE 71 BLUE AMMONIA MARKET: DEALS, 2019–2023

9.7.2 OTHERS

TABLE 72 BLUE AMMONIA MARKET: OTHERS, 2019–2023

10 COMPANY PROFILES

10.1 BLUE AMMONIA PRODUCERS

(Business Overview, Products/Solutions/Services offered, Recent Developments, MnM View)*

10.1.1 YARA INTERNATIONAL ASA

TABLE 73 YARA INTERNATIONAL ASA: COMPANY OVERVIEW

FIGURE 38 YARA INTERNATIONAL ASA: COMPANY SNAPSHOT

TABLE 74 YARA INTERNATIONAL ASA: PRODUCT/SERVICE/SOLUTION OFFERINGS

TABLE 75 YARA INTERNATIONAL ASA: DEALS

10.1.2 SAUDI ARABIAN OIL CO.

TABLE 76 SAUDI ARABIAN OIL CO.: COMPANY OVERVIEW

FIGURE 39 SAUDI ARABIAN OIL CO.: COMPANY SNAPSHOT

TABLE 77 SAUDI ARABIAN OIL CO.: PRODUCT/SERVICE/SOLUTION OFFERINGS

TABLE 78 SAUDI ARABIAN OIL CO.: DEALS

10.1.3 OCI

TABLE 79 OCI: BUSINESS OVERVIEW

FIGURE 40 OCI: COMPANY SNAPSHOT

TABLE 80 OCI: PRODUCT/SERVICE/SOLUTION OFFERINGS

TABLE 81 OCI: DEALS

TABLE 82 OCI: OTHERS

10.1.4 CF INDUSTRIES HOLDINGS, INC.

TABLE 83 CF INDUSTRIES HOLDINGS, INC.: COMPANY OVERVIEW

TABLE 84 CF INDUSTRIES HOLDINGS, INC.: PRODUCT/SERVICE/SOLUTION OFFERINGS

TABLE 85 CF INDUSTRIES HOLDINGS, INC.: DEALS

10.1.5 MA'ADEN

TABLE 86 MA'ADEN: COMPANY OVERVIEW

FIGURE 42 MA'ADEN: COMPANY SNAPSHOT

TABLE 87 MA'ADEN: PRODUCT/SERVICE/SOLUTION OFFERINGS

TABLE 88 MA'ADEN: DEALS

10.1.6 QATAR FERTILISER COMPANY (QAFCO)

TABLE 89 QATAR FERTILISER COMPANY (QAFCO): COMPANY OVERVIEW

FIGURE 43 QATAR FERTILISER COMPANY (QAFCO): COMPANY SNAPSHOT

TABLE 90 QATAR FERTILISER COMPANY (QAFCO):

PRODUCT/SERVICE/SOLUTION OFFERINGS

TABLE 91 QATAR FERTILISER COMPANY (QAFCO): DEALS

10.1.7 SHELL PLC

TABLE 92 SHELL PLC: COMPANY OVERVIEW

FIGURE 44 SHELL PLC: COMPANY SNAPSHOT

TABLE 93 SHELL PLC: PRODUCT/SERVICE/SOLUTION OFFERINGS

TABLE 94 SHELL PLC: DEALS

10.1.8 EXXONMOBIL CORPORATION

TABLE 95 EXXONMOBIL CORPORATION: COMPANY OVERVIEW

FIGURE 45 EXXONMOBIL CORPORATION: COMPANY SNAPSHOT

TABLE 96 EXXONMOBIL CORPORATION: PRODUCT/SERVICE/SOLUTION
OFFERINGS

TABLE 97 EXXONMOBIL CORPORATION: OTHERS

10.1.9 LINDE PLC

TABLE 98 LINDE PLC: COMPANY OVERVIEW

FIGURE 46 LINDE PLC: COMPANY SNAPSHOT

TABLE 99 LINDE PLC: PRODUCT/SERVICE/SOLUTION OFFERINGS

TABLE 100 LINDE PLC: OTHERS

10.1.10 NUTRIEN LTD.

TABLE 101 NUTRIEN LTD.: COMPANY OVERVIEW

FIGURE 47 NUTRIEN LTD.: COMPANY SNAPSHOT

TABLE 102 NUTRIEN LTD.: PRODUCT/SERVICE/SOLUTION OFFERINGS

TABLE 103 NUTRIEN LTD.: DEALS

10.1.11 UNIPER SE

TABLE 104 UNIPER SE: COMPANY OVERVIEW

FIGURE 48 UNIPER SE: COMPANY SNAPSHOT

TABLE 105 UNIPER SE: PRODUCT/SERVICE/SOLUTION OFFERINGS

TABLE 106 UNIPER SE: DEALS

10.1.12 ADNOC GROUP

TABLE 107 ADNOC GROUP: COMPANY OVERVIEW

FIGURE 49 ADNOC GROUP: COMPANY SNAPSHOT

TABLE 108 ADNOC GROUP: PRODUCT/SERVICE/SOLUTION OFFERINGS

10.1.13 LSB INDUSTRIES

TABLE 109 LSB INDUSTRIES: COMPANY OVERVIEW

FIGURE 50 LSB INDUSTRIES: COMPANY SNAPSHOT

TABLE 110 LSB INDUSTRIES: PRODUCT/SERVICE/SOLUTION OFFERINGS

10.2 OTHER BLUE AMMONIA PRODUCERS

10.2.1 EUROCHEM GROUP

10.2.2 ITOCHU CORPORATION

10.2.3 T?CNICAS REUNIDAS S.A.

10.2.4 PAO NOVATEK

10.3 TECHNOLOGY PROVIDERS

10.3.1 KBR INC.

TABLE 111 KBR INC.: COMPANY OVERVIEW

FIGURE 51 KBR INC.: COMPANY SNAPSHOT

TABLE 112 KBR INC.: PRODUCT/SERVICE/SOLUTION OFFERINGS

10.3.2 TOPSOE

TABLE 113 TOPSOE: COMPANY OVERVIEW

TABLE 114 TOPSOE: PRODUCT/SERVICE/SOLUTION OFFERINGS

10.3.3 THYSSENKRUPP UHDE GMBH

10.4 EPC COMPANIES

10.4.1 TECHNIP ENERGIES N.V.

TABLE 115 TECHNIP ENERGIES N.V.: COMPANY OVERVIEW

FIGURE 52 TECHNIP ENERGIES N.V.: COMPANY SNAPSHOT

TABLE 116 TECHNIP ENERGIES N.V.: PRODUCT/SERVICE/SOLUTION OFFERINGS

10.4.2 MAIRETECNIMONT S.P.A.

TABLE 117 MAIRETECNIMONT S.P.A.: COMPANY OVERVIEW

FIGURE 53 MAIRETECNIMONT S.P.A.: COMPANY SNAPSHOT

TABLE 118 MAIRETECNIMONT S.P.A.: PRODUCT/SERVICE/SOLUTION OFFERINGS

10.4.3 SAIPEM

TABLE 119 SAIPEM: COMPANY OVERVIEW

FIGURE 54 SAIPEM: COMPANY SNAPSHOT

TABLE 120 SAIPEM: PRODUCT/SERVICE/SOLUTION OFFERINGS

*Details on Business Overview, Products/Solutions/Services offered, Recent Developments, MnM View might not be captured in case of unlisted companies.

11 APPENDIX

11.1 INSIGHTS FROM INDUSTRY EXPERTS

11.2 DISCUSSION GUIDE

11.3 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

11.4 CUSTOMIZATION OPTIONS

11.5 RELATED REPORTS

11.6 AUTHOR DETAILS

I would like to order

Product name: Blue Ammonia Market by Technology (Steam Methane Reforming (SMR), Autothermal Reforming (ATR), Gas Partial Oxidation), End-use Application (Industrial Feedstock, Power Generation, Transportation) and Region - Global Forecast to 2030

Product link: <https://marketpublishers.com/r/B1F76E6D5B24EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/B1F76E6D5B24EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970