

Middle East & Africa Green Hydrogen Market Forecast to 2030 – Regional Analysis – by Technology (Alkaline Electrolysis and PEM Electrolysis), Renewable Source (Wind Energy and Solar Energy), and End-Use Industry (Chemical, Power, Food & Beverages, Medical, Petrochemicals, and Others)

<https://marketpublishers.com/r/M4B12CAD0C50EN.html>

Date: January 2024

Pages: 97

Price: US\$ 3,550.00 (Single User License)

ID: M4B12CAD0C50EN

Abstracts

The Middle East & Africa green hydrogen market is expected to grow from US\$ 147.16 million in 2022 to US\$ 2,377.50 by 2030. It is estimated to grow at a CAGR of 41.6% from 2022 to 2030.

Technological Advancements in Green Hydrogen Drives Middle East & Africa Green Hydrogen Market

Electrolysis is used to produce green hydrogen by splitting water molecules into hydrogen and oxygen using electricity. Technological advancements in electrolysis contribute to improving the efficiency, cost-effectiveness, and scalability of the production, storage, and utilization of green hydrogen. Enhanced electrolyzer designs, advanced catalyst materials, and optimized operating conditions are a few factors that might lead to higher energy conversion efficiencies, shorter response times, and longer equipment lifetimes. Thus, technological advancements associated with green hydrogen are expected to fuel the market growth during the forecast period.

Middle East & Africa Green Hydrogen Market Overview

The Middle East & Africa (MEA) is home to a few of the world's most significant hydrogen production plans such as NEOM Helios, Oman Acme Group green hydrogen hub and many more. With abundant renewables, geographical convenience, and vast ongoing investments in logistical infrastructure, the Middle East and Africa has the potential for scalable green hydrogen generation and global exportation to meet rising global demand. Countries in the region provide high solar irradiation levels.

Governments of these countries are significantly investing in hydrogen production capacity to diversify their economies, generate jobs, and become leaders in the energy transition. Most green hydrogen projects are still in the planning stages, while there are two projects that are under construction, namely, the NEOM Helios and the Egyptian Ain Sokhna complex.

Middle East & Africa Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Green Hydrogen Market Segmentation

The Middle East & Africa green hydrogen market is segmented into technology, renewable source, end-use industry, and country.

Based on technology, the Middle East & Africa green hydrogen market is bifurcated into alkaline electrolysis and PEM electrolysis. The alkaline electrolysis segment accounted a larger share of the Middle East & Africa green hydrogen market in 2022. By renewable source, the Middle East & Africa green hydrogen market is divided into wind energy and solar energy. The solar energy segment held a larger share of the Middle East & Africa green hydrogen market in 2022.

By end-use industry, the Middle East & Africa green hydrogen market is segmented into chemical, power, food & beverages, medical, petrochemicals, and others. In 2022, the power segment held a largest share of the Middle East & Africa green hydrogen market. Based on country, the Middle East & Africa green hydrogen market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of Middle East & Africa. The UAE dominated the Middle East & Africa green hydrogen market in 2022.

Air Products & Chemicals Inc, Cummins Inc, Engie SA, L'Air Liquide SA, Linde Plc, Nel ASA, Siemens Energy AG, and Toshiba Energy Systems & Solutions Corp are some of the leading companies operating in the Middle East & Africa green hydrogen market.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. MIDDLE EAST & AFRICA GREEN HYDROGEN MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 Renewable Energy Sources:
 - 4.3.2 Green Hydrogen Producers:
 - 4.3.3 Green Hydrogen Distributors:
 - 4.3.4 End Users or Consumers:

5. MIDDLE EAST & AFRICA GREEN HYDROGEN MARKET - KEY INDUSTRY DYNAMICS

- 5.1 Key Market Drivers:
 - 5.1.1 Rising Global Plans for Net-zero Emission by 2050
 - 5.1.2 Growing Investment in Renewable Energy
 - 5.1.3 Increasing Demand for FCEV
- 5.2 Key Market Restraints:
 - 5.2.1 High Cost of Green Hydrogen and Associated Products
 - 5.2.2 Lack of Infrastructure
- 5.3 Key Market Opportunities:

- 5.3.1 Increasing Investment in Green Hydrogen Projects
- 5.3.2 Growing Establishment of Large Green Hydrogen Plants
- 5.4 Future Trend:
 - 5.4.1 Technological Advancements in Green Hydrogen
- 5.5 Impact of Drivers and Restraints:

6. GREEN HYDROGEN MARKET - MIDDLE EAST & AFRICA MARKET ANALYSIS

- 6.1 Middle East & Africa Green Hydrogen Market Share, By Region (%), 2020 and 2030
- 6.2 Middle East & Africa Green Hydrogen Market Revenue (US\$ Mn), 2020 – 2030

7. MIDDLE EAST & AFRICA GREEN HYDROGEN MARKET ANALYSIS – END-USE INDUSTRY

- 7.1 Overview
- 7.2 Middle East & Africa Green Hydrogen Market Revenue Share, By End-Use Industry (2022 and 2030)
- 7.3 Chemicals
 - 7.3.1 Overview
 - 7.3.2 Chemicals: Middle East & Africa Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)
- 7.4 Power
 - 7.4.1 Overview
 - 7.4.2 Power: Middle East & Africa Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)
- 7.5 Food and Beverages
 - 7.5.1 Overview
 - 7.5.2 Food and Beverages: Middle East & Africa Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)
- 7.6 Medical
 - 7.6.1 Overview
 - 7.6.2 Medical: Middle East & Africa Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)
- 7.7 Petrochemicals
 - 7.7.1 Overview
 - 7.7.2 Petrochemicals: Middle East & Africa Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)
- 7.8 Others
 - 7.8.1 Overview

7.8.2 Others: Middle East & Africa Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)

8. MIDDLE EAST & AFRICA GREEN HYDROGEN MARKET ANALYSIS – RENEWABLE SOURCE

8.1 Overview

8.2 Middle East & Africa Green Hydrogen Market Revenue Share, By Renewable Source (2022 and 2030)

8.3 Wind Energy

8.3.1 Overview

8.3.2 Wind Energy: Middle East & Africa Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)

8.4 Solar Energy

8.4.1 Overview

8.4.2 Solar Energy: Middle East & Africa Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)

9. MIDDLE EAST & AFRICA GREEN HYDROGEN MARKET ANALYSIS – TECHNOLOGY

9.1 Overview

9.2 Middle East & Africa Green Hydrogen Market Revenue Share, By Technology (2022 and 2030)

9.3 Alkaline Electrolysis

9.3.1 Overview

9.3.2 Alkaline Electrolysis: Middle East & Africa Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)

9.4 PEM Electrolysis

9.4.1 Overview

9.4.2 PEM Electrolysis: Middle East & Africa Green Hydrogen Market Revenue and Forecast to 2030 (US\$ Million)

10. MIDDLE EAST & AFRICA GREEN HYDROGEN MARKET - COUNTRY ANALYSIS

10.1 Overview

10.1.1 Middle East & Africa Green Hydrogen Market, by Key Country

10.1.1.1 South Africa: Middle East & Africa Green Hydrogen Market Revenue and

Forecasts to 2030 (US\$ Million)

10.1.1.1.1 South Africa: Middle East & Africa Green Hydrogen Market, By End-Use Industry

10.1.1.1.2 South Africa: Middle East & Africa Green Hydrogen Market, By Renewable Source

10.1.1.1.3 South Africa: Middle East & Africa Green Hydrogen Market, By Technology

10.1.1.2 Saudi Arabia: Middle East & Africa Green Hydrogen Market Revenue and Forecasts to 2030 (US\$ Million)

10.1.1.2.1 Saudi Arabia: Middle East & Africa Green Hydrogen Market, By End-Use Industry

10.1.1.2.2 Saudi Arabia: Middle East & Africa Green Hydrogen Market, By Renewable Source

10.1.1.2.3 Saudi Arabia: Middle East & Africa Green Hydrogen Market, By Technology

10.1.1.3 UAE: Middle East & Africa Green Hydrogen Market Revenue and Forecasts to 2030 (US\$ Million)

10.1.1.3.1 UAE: Middle East & Africa Green Hydrogen Market, By End-Use Industry

10.1.1.3.2 UAE: Middle East & Africa Green Hydrogen Market, By Renewable Source

10.1.1.3.3 UAE: Middle East & Africa Green Hydrogen Market, By Technology

10.1.1.4 Rest of Middle East & Africa: Middle East & Africa Green Hydrogen Market Revenue and Forecasts to 2030 (US\$ Million)

10.1.1.4.1 Rest of Middle East & Africa: Middle East & Africa Green Hydrogen Market, By End-Use Industry

10.1.1.4.2 Rest of Middle East & Africa: Middle East & Africa Green Hydrogen Market, By Renewable Source

10.1.1.4.3 Rest of Middle East & Africa: Middle East & Africa Green Hydrogen Market, By Technology

11. COMPETITIVE LANDSCAPE

11.1 Company Positioning & Concentration

12. INDUSTRY LANDSCAPE

12.1 Overview

12.2 Market Initiative

13. COMPANY PROFILES

13.1 L’Air Liquide SA

- 13.1.1 Key Facts
- 13.1.2 Business Description
- 13.1.3 Products and Services
- 13.1.4 Financial Overview
- 13.1.5 SWOT Analysis
- 13.1.6 Key Developments

13.2 Siemens Energy AG

- 13.2.1 Key Facts
- 13.2.2 Business Description
- 13.2.3 Products and Services
- 13.2.4 Financial Overview
- 13.2.5 SWOT Analysis
- 13.2.6 Key Developments

13.3 Cummins Inc

- 13.3.1 Key Facts
- 13.3.2 Business Description
- 13.3.3 Products and Services
- 13.3.4 Financial Overview
- 13.3.5 SWOT Analysis
- 13.3.6 Key Developments

13.4 Linde Plc

- 13.4.1 Key Facts
- 13.4.2 Business Description
- 13.4.3 Products and Services
- 13.4.4 Financial Overview
- 13.4.5 SWOT Analysis
- 13.4.6 Key Developments

13.5 Nel ASA

- 13.5.1 Key Facts
- 13.5.2 Business Description
- 13.5.3 Products and Services
- 13.5.4 Financial Overview
- 13.5.5 SWOT Analysis
- 13.5.6 Key Developments

13.6 Toshiba Energy Systems & Solutions Corp

- 13.6.1 Key Facts

- 13.6.2 Business Description
- 13.6.3 Products and Services
- 13.6.4 Financial Overview
- 13.6.5 SWOT Analysis
- 13.6.6 Key Developments
- 13.7 Engie SA
 - 13.7.1 Key Facts
 - 13.7.2 Business Description
 - 13.7.3 Products and Services
 - 13.7.4 Financial Overview
 - 13.7.5 SWOT Analysis
 - 13.7.6 Key Developments
- 13.8 Air Products & Chemicals Inc
 - 13.8.1 Key Facts
 - 13.8.2 Business Description
 - 13.8.3 Products and Services
 - 13.8.4 Financial Overview
 - 13.8.5 SWOT Analysis
 - 13.8.6 Key Developments

14. APPENDIX

- 14.1 Appendix

I would like to order

Product name: Middle East & Africa Green Hydrogen Market Forecast to 2030 – Regional Analysis – by Technology (Alkaline Electrolysis and PEM Electrolysis), Renewable Source (Wind Energy and Solar Energy), and End-Use Industry (Chemical, Power, Food & Beverages, Medical, Petrochemicals, and Others)

Product link: <https://marketpublishers.com/r/M4B12CAD0C50EN.html>

Price: US\$ 3,550.00 (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/M4B12CAD0C50EN.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