

Global Partial Oxidation Blue Hydrogen Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G19CCB948A97EN.html>

Date: June 2026

Pages: 191

Price: US\$ 4,480.00 (Single User License)

ID: G19CCB948A97EN

Abstracts

The global Partial Oxidation Blue Hydrogen market size is expected to reach \$ 905 million by 2032, rising at a market growth of 11.1% CAGR during the forecast period (2026-2032).

Partial Oxidation Blue Hydrogen refers to low-carbon hydrogen produced by reacting a hydrocarbon feedstock with a sub-stoichiometric amount of oxygen at high temperatures in a partial oxidation reactor, generating a synthesis gas composed primarily of hydrogen and carbon monoxide. In 2025, global partial oxidation blue hydrogen production reached approximately 120,242 ton, with an average global market price of around USD 3,500 per ton. A factory gross profit of USD 770 per ton with 22% gross margin. A single line full machine capacity production is around 3,000 ton per line per year. The upstream is dependent on gas suppliers, catalyst manufacturers. The downstream demand is concentrated in refining, chemical manufacturing and power generation. POX blue hydrogen is used to remove sulfur from crude oil fractions, producing cleaner diesel. US and Canada leads driven by large scale production due to significant government subsidies.

This report studies the global Partial Oxidation Blue Hydrogen production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Partial Oxidation Blue Hydrogen and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Partial Oxidation Blue Hydrogen that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Partial Oxidation Blue Hydrogen total production and demand, 2021-2032, (Tons)

Global Partial Oxidation Blue Hydrogen total production value, 2021-2032, (USD Million)

Global Partial Oxidation Blue Hydrogen production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Partial Oxidation Blue Hydrogen consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Partial Oxidation Blue Hydrogen domestic production, consumption, key domestic manufacturers and share

Global Partial Oxidation Blue Hydrogen production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Partial Oxidation Blue Hydrogen production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Partial Oxidation Blue Hydrogen production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Partial Oxidation Blue Hydrogen market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Shell plc (Netherlands), Air Products & Chemicals Inc. (US), Linde plc (UK), Air Liquide S.A. (France), Equinor ASA (Norway), ExxonMobil Corp. (US), BP plc (UK), TotalEnergies SE (France), Uniper SE (Germany), Mitsubishi Heavy Industries (Japan), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Partial Oxidation Blue Hydrogen market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Partial Oxidation Blue Hydrogen Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Partial Oxidation Blue Hydrogen Market, Segmentation by Type:

Non Catalytic Partial Oxidation

Catalytic Partial Oxidation

Autothermal Reforming + POX Hybrid

POX Integrated with CO₂ Capture

Others

Global Partial Oxidation Blue Hydrogen Market, Segmentation by Carbon Capture Rate:

High Capture (>95%)

Medium Capture (85–94%)

Minimum Blue Standard (70–84%)

Below Blue Threshold (?69%)

Others

Global Partial Oxidation Blue Hydrogen Market, Segmentation by Product Form:

High Purity Gaseous Hydrogen

Syngas

Blue Ammonia

Blue Methanol

Others

Global Partial Oxidation Blue Hydrogen Market, Segmentation by Application:

Oil Refining

Methanol and Chemical Synthesis

Steelmaking

Power Generation

Others

Companies Profiled:

Shell plc (Netherlands)

Air Products & Chemicals Inc. (US)

Linde plc (UK)

Air Liquide S.A. (France)

Equinor ASA (Norway)

ExxonMobil Corp. (US)

BP plc (UK)

TotalEnergies SE (France)

Uniper SE (Germany)

Mitsubishi Heavy Industries (Japan)

Saudi Aramco (Saudi Arabia)

ADNOC (UAE)

INPEX Corporation (Japan)

Doosan Enerbility (South Korea)

Clariant AG (Switzerland)

Johnson Matthey (UK)

Trillium H2 Power LLC (US)

Dastur Energy (US/India)

Siemens Energy AG (Germany)

Honeywell UOP (US)

SINOPEC (China)

China National Offshore Oil Corp. (CNOOC) (China)

China National Petroleum Corp. (CNPC) (China)

Beijing SinoHytec Co., Ltd. (China)

Huaneng Group (China)

State Power Investment Corp. (SPIC) (China)

Air Products Qudra (APQ) (Saudi Arabia)

Reliance Industries Ltd (India)

GAIL (India) Ltd (India)

Indian Oil Corporation Ltd (India)

Key Questions Answered:

1. How big is the global Partial Oxidation Blue Hydrogen market?
2. What is the demand of the global Partial Oxidation Blue Hydrogen market?
3. What is the year over year growth of the global Partial Oxidation Blue Hydrogen market?
4. What is the production and production value of the global Partial Oxidation Blue Hydrogen market?
5. Who are the key producers in the global Partial Oxidation Blue Hydrogen market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Partial Oxidation Blue Hydrogen Introduction
- 1.2 World Partial Oxidation Blue Hydrogen Supply & Forecast
 - 1.2.1 World Partial Oxidation Blue Hydrogen Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Partial Oxidation Blue Hydrogen Production (2021-2032)
 - 1.2.3 World Partial Oxidation Blue Hydrogen Pricing Trends (2021-2032)
- 1.3 World Partial Oxidation Blue Hydrogen Production by Region (Based on Production Site)
 - 1.3.1 World Partial Oxidation Blue Hydrogen Production Value by Region (2021-2032)
 - 1.3.2 World Partial Oxidation Blue Hydrogen Production by Region (2021-2032)
 - 1.3.3 World Partial Oxidation Blue Hydrogen Average Price by Region (2021-2032)
 - 1.3.4 North America Partial Oxidation Blue Hydrogen Production (2021-2032)
 - 1.3.5 Europe Partial Oxidation Blue Hydrogen Production (2021-2032)
 - 1.3.6 China Partial Oxidation Blue Hydrogen Production (2021-2032)
 - 1.3.7 Japan Partial Oxidation Blue Hydrogen Production (2021-2032)
 - 1.3.8 India Partial Oxidation Blue Hydrogen Production (2021-2032)
 - 1.3.9 Southeast Asia Partial Oxidation Blue Hydrogen Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Partial Oxidation Blue Hydrogen Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Partial Oxidation Blue Hydrogen Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Partial Oxidation Blue Hydrogen Demand (2021-2032)
- 2.2 World Partial Oxidation Blue Hydrogen Consumption by Region
 - 2.2.1 World Partial Oxidation Blue Hydrogen Consumption by Region (2021-2026)
 - 2.2.2 World Partial Oxidation Blue Hydrogen Consumption Forecast by Region (2027-2032)
- 2.3 United States Partial Oxidation Blue Hydrogen Consumption (2021-2032)
- 2.4 China Partial Oxidation Blue Hydrogen Consumption (2021-2032)
- 2.5 Europe Partial Oxidation Blue Hydrogen Consumption (2021-2032)
- 2.6 Japan Partial Oxidation Blue Hydrogen Consumption (2021-2032)
- 2.7 South Korea Partial Oxidation Blue Hydrogen Consumption (2021-2032)
- 2.8 ASEAN Partial Oxidation Blue Hydrogen Consumption (2021-2032)
- 2.9 India Partial Oxidation Blue Hydrogen Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Partial Oxidation Blue Hydrogen Production Value by Manufacturer (2021-2026)
- 3.2 World Partial Oxidation Blue Hydrogen Production by Manufacturer (2021-2026)
- 3.3 World Partial Oxidation Blue Hydrogen Average Price by Manufacturer (2021-2026)
- 3.4 Partial Oxidation Blue Hydrogen Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Partial Oxidation Blue Hydrogen Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Partial Oxidation Blue Hydrogen in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Partial Oxidation Blue Hydrogen in 2025
- 3.6 Partial Oxidation Blue Hydrogen Market: Overall Company Footprint Analysis
 - 3.6.1 Partial Oxidation Blue Hydrogen Market: Region Footprint
 - 3.6.2 Partial Oxidation Blue Hydrogen Market: Company Product Type Footprint
 - 3.6.3 Partial Oxidation Blue Hydrogen Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Partial Oxidation Blue Hydrogen Production Value Comparison
 - 4.1.1 United States VS China: Partial Oxidation Blue Hydrogen Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Partial Oxidation Blue Hydrogen Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Partial Oxidation Blue Hydrogen Production Comparison
 - 4.2.1 United States VS China: Partial Oxidation Blue Hydrogen Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Partial Oxidation Blue Hydrogen Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Partial Oxidation Blue Hydrogen Consumption Comparison
 - 4.3.1 United States VS China: Partial Oxidation Blue Hydrogen Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Partial Oxidation Blue Hydrogen Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Partial Oxidation Blue Hydrogen Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Partial Oxidation Blue Hydrogen Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Partial Oxidation Blue Hydrogen Production Value (2021-2026)

4.4.3 United States Based Manufacturers Partial Oxidation Blue Hydrogen Production (2021-2026)

4.5 China Based Partial Oxidation Blue Hydrogen Manufacturers and Market Share

4.5.1 China Based Partial Oxidation Blue Hydrogen Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Partial Oxidation Blue Hydrogen Production Value (2021-2026)

4.5.3 China Based Manufacturers Partial Oxidation Blue Hydrogen Production (2021-2026)

4.6 Rest of World Based Partial Oxidation Blue Hydrogen Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Partial Oxidation Blue Hydrogen Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Partial Oxidation Blue Hydrogen Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Partial Oxidation Blue Hydrogen Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Partial Oxidation Blue Hydrogen Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Non Catalytic Partial Oxidation

5.2.2 Catalytic Partial Oxidation

5.2.3 Autothermal Reforming + POX Hybrid

5.2.4 POX Integrated with CO₂ Capture

5.2.5 Others

5.3 Market Segment by Type

5.3.1 World Partial Oxidation Blue Hydrogen Production by Type (2021-2032)

5.3.2 World Partial Oxidation Blue Hydrogen Production Value by Type (2021-2032)

5.3.3 World Partial Oxidation Blue Hydrogen Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CARBON CAPTURE RATE

6.1 World Partial Oxidation Blue Hydrogen Market Size Overview by Carbon Capture Rate: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Carbon Capture Rate

6.2.1 High Capture (?95%)

6.2.2 Medium Capture (85–94%)

6.2.3 Minimum Blue Standard (70–84%)

6.2.4 Below Blue Threshold (?69%)

6.2.5 Others

6.3 Market Segment by Carbon Capture Rate

6.3.1 World Partial Oxidation Blue Hydrogen Production by Carbon Capture Rate (2021-2032)

6.3.2 World Partial Oxidation Blue Hydrogen Production Value by Carbon Capture Rate (2021-2032)

6.3.3 World Partial Oxidation Blue Hydrogen Average Price by Carbon Capture Rate (2021-2032)

7 MARKET ANALYSIS BY PRODUCT FORM

7.1 World Partial Oxidation Blue Hydrogen Market Size Overview by Product Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Product Form

7.2.1 High Purity Gaseous Hydrogen

7.2.2 Syngas

7.2.3 Blue Ammonia

7.2.4 Blue Methanol

7.2.5 Others

7.3 Market Segment by Product Form

7.3.1 World Partial Oxidation Blue Hydrogen Production by Product Form (2021-2032)

7.3.2 World Partial Oxidation Blue Hydrogen Production Value by Product Form (2021-2032)

7.3.3 World Partial Oxidation Blue Hydrogen Average Price by Product Form (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Partial Oxidation Blue Hydrogen Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Oil Refining

8.2.2 Methanol and Chemical Synthesis

8.2.3 Steelmaking

8.2.4 Power Generation

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Partial Oxidation Blue Hydrogen Production by Application (2021-2032)

8.3.2 World Partial Oxidation Blue Hydrogen Production Value by Application (2021-2032)

8.3.3 World Partial Oxidation Blue Hydrogen Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Shell plc (Netherlands)

9.1.1 Shell plc (Netherlands) Details

9.1.2 Shell plc (Netherlands) Major Business

9.1.3 Shell plc (Netherlands) Partial Oxidation Blue Hydrogen Product and Services

9.1.4 Shell plc (Netherlands) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Shell plc (Netherlands) Recent Developments/Updates

9.1.6 Shell plc (Netherlands) Competitive Strengths & Weaknesses

9.2 Air Products & Chemicals Inc. (US)

9.2.1 Air Products & Chemicals Inc. (US) Details

9.2.2 Air Products & Chemicals Inc. (US) Major Business

9.2.3 Air Products & Chemicals Inc. (US) Partial Oxidation Blue Hydrogen Product and Services

9.2.4 Air Products & Chemicals Inc. (US) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Air Products & Chemicals Inc. (US) Recent Developments/Updates

9.2.6 Air Products & Chemicals Inc. (US) Competitive Strengths & Weaknesses

9.3 Linde plc (UK)

9.3.1 Linde plc (UK) Details

9.3.2 Linde plc (UK) Major Business

9.3.3 Linde plc (UK) Partial Oxidation Blue Hydrogen Product and Services

9.3.4 Linde plc (UK) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.3.5 Linde plc (UK) Recent Developments/Updates
- 9.3.6 Linde plc (UK) Competitive Strengths & Weaknesses
- 9.4 Air Liquide S.A. (France)
 - 9.4.1 Air Liquide S.A. (France) Details
 - 9.4.2 Air Liquide S.A. (France) Major Business
 - 9.4.3 Air Liquide S.A. (France) Partial Oxidation Blue Hydrogen Product and Services
 - 9.4.4 Air Liquide S.A. (France) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Air Liquide S.A. (France) Recent Developments/Updates
 - 9.4.6 Air Liquide S.A. (France) Competitive Strengths & Weaknesses
- 9.5 Equinor ASA (Norway)
 - 9.5.1 Equinor ASA (Norway) Details
 - 9.5.2 Equinor ASA (Norway) Major Business
 - 9.5.3 Equinor ASA (Norway) Partial Oxidation Blue Hydrogen Product and Services
 - 9.5.4 Equinor ASA (Norway) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Equinor ASA (Norway) Recent Developments/Updates
 - 9.5.6 Equinor ASA (Norway) Competitive Strengths & Weaknesses
- 9.6 ExxonMobil Corp. (US)
 - 9.6.1 ExxonMobil Corp. (US) Details
 - 9.6.2 ExxonMobil Corp. (US) Major Business
 - 9.6.3 ExxonMobil Corp. (US) Partial Oxidation Blue Hydrogen Product and Services
 - 9.6.4 ExxonMobil Corp. (US) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 ExxonMobil Corp. (US) Recent Developments/Updates
 - 9.6.6 ExxonMobil Corp. (US) Competitive Strengths & Weaknesses
- 9.7 BP plc (UK)
 - 9.7.1 BP plc (UK) Details
 - 9.7.2 BP plc (UK) Major Business
 - 9.7.3 BP plc (UK) Partial Oxidation Blue Hydrogen Product and Services
 - 9.7.4 BP plc (UK) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 BP plc (UK) Recent Developments/Updates
 - 9.7.6 BP plc (UK) Competitive Strengths & Weaknesses
- 9.8 TotalEnergies SE (France)
 - 9.8.1 TotalEnergies SE (France) Details
 - 9.8.2 TotalEnergies SE (France) Major Business
 - 9.8.3 TotalEnergies SE (France) Partial Oxidation Blue Hydrogen Product and Services

9.8.4 TotalEnergies SE (France) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 TotalEnergies SE (France) Recent Developments/Updates

9.8.6 TotalEnergies SE (France) Competitive Strengths & Weaknesses

9.9 Uniper SE (Germany)

9.9.1 Uniper SE (Germany) Details

9.9.2 Uniper SE (Germany) Major Business

9.9.3 Uniper SE (Germany) Partial Oxidation Blue Hydrogen Product and Services

9.9.4 Uniper SE (Germany) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Uniper SE (Germany) Recent Developments/Updates

9.9.6 Uniper SE (Germany) Competitive Strengths & Weaknesses

9.10 Mitsubishi Heavy Industries (Japan)

9.10.1 Mitsubishi Heavy Industries (Japan) Details

9.10.2 Mitsubishi Heavy Industries (Japan) Major Business

9.10.3 Mitsubishi Heavy Industries (Japan) Partial Oxidation Blue Hydrogen Product and Services

9.10.4 Mitsubishi Heavy Industries (Japan) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Mitsubishi Heavy Industries (Japan) Recent Developments/Updates

9.10.6 Mitsubishi Heavy Industries (Japan) Competitive Strengths & Weaknesses

9.11 Saudi Aramco (Saudi Arabia)

9.11.1 Saudi Aramco (Saudi Arabia) Details

9.11.2 Saudi Aramco (Saudi Arabia) Major Business

9.11.3 Saudi Aramco (Saudi Arabia) Partial Oxidation Blue Hydrogen Product and Services

9.11.4 Saudi Aramco (Saudi Arabia) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Saudi Aramco (Saudi Arabia) Recent Developments/Updates

9.11.6 Saudi Aramco (Saudi Arabia) Competitive Strengths & Weaknesses

9.12 ADNOC (UAE)

9.12.1 ADNOC (UAE) Details

9.12.2 ADNOC (UAE) Major Business

9.12.3 ADNOC (UAE) Partial Oxidation Blue Hydrogen Product and Services

9.12.4 ADNOC (UAE) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 ADNOC (UAE) Recent Developments/Updates

9.12.6 ADNOC (UAE) Competitive Strengths & Weaknesses

9.13 INPEX Corporation (Japan)

- 9.13.1 INPEX Corporation (Japan) Details
- 9.13.2 INPEX Corporation (Japan) Major Business
- 9.13.3 INPEX Corporation (Japan) Partial Oxidation Blue Hydrogen Product and Services
- 9.13.4 INPEX Corporation (Japan) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 INPEX Corporation (Japan) Recent Developments/Updates
- 9.13.6 INPEX Corporation (Japan) Competitive Strengths & Weaknesses
- 9.14 Doosan Enerbility (South Korea)
 - 9.14.1 Doosan Enerbility (South Korea) Details
 - 9.14.2 Doosan Enerbility (South Korea) Major Business
 - 9.14.3 Doosan Enerbility (South Korea) Partial Oxidation Blue Hydrogen Product and Services
 - 9.14.4 Doosan Enerbility (South Korea) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Doosan Enerbility (South Korea) Recent Developments/Updates
 - 9.14.6 Doosan Enerbility (South Korea) Competitive Strengths & Weaknesses
- 9.15 Clariant AG (Switzerland)
 - 9.15.1 Clariant AG (Switzerland) Details
 - 9.15.2 Clariant AG (Switzerland) Major Business
 - 9.15.3 Clariant AG (Switzerland) Partial Oxidation Blue Hydrogen Product and Services
 - 9.15.4 Clariant AG (Switzerland) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Clariant AG (Switzerland) Recent Developments/Updates
 - 9.15.6 Clariant AG (Switzerland) Competitive Strengths & Weaknesses
- 9.16 Johnson Matthey (UK)
 - 9.16.1 Johnson Matthey (UK) Details
 - 9.16.2 Johnson Matthey (UK) Major Business
 - 9.16.3 Johnson Matthey (UK) Partial Oxidation Blue Hydrogen Product and Services
 - 9.16.4 Johnson Matthey (UK) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Johnson Matthey (UK) Recent Developments/Updates
 - 9.16.6 Johnson Matthey (UK) Competitive Strengths & Weaknesses
- 9.17 Trillium H2 Power LLC (US)
 - 9.17.1 Trillium H2 Power LLC (US) Details
 - 9.17.2 Trillium H2 Power LLC (US) Major Business
 - 9.17.3 Trillium H2 Power LLC (US) Partial Oxidation Blue Hydrogen Product and Services

- 9.17.4 Trillium H2 Power LLC (US) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 Trillium H2 Power LLC (US) Recent Developments/Updates
- 9.17.6 Trillium H2 Power LLC (US) Competitive Strengths & Weaknesses
- 9.18 Dastur Energy (US/India)
- 9.18.1 Dastur Energy (US/India) Details
- 9.18.2 Dastur Energy (US/India) Major Business
- 9.18.3 Dastur Energy (US/India) Partial Oxidation Blue Hydrogen Product and Services
- 9.18.4 Dastur Energy (US/India) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.18.5 Dastur Energy (US/India) Recent Developments/Updates
- 9.18.6 Dastur Energy (US/India) Competitive Strengths & Weaknesses
- 9.19 Siemens Energy AG (Germany)
- 9.19.1 Siemens Energy AG (Germany) Details
- 9.19.2 Siemens Energy AG (Germany) Major Business
- 9.19.3 Siemens Energy AG (Germany) Partial Oxidation Blue Hydrogen Product and Services
- 9.19.4 Siemens Energy AG (Germany) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.19.5 Siemens Energy AG (Germany) Recent Developments/Updates
- 9.19.6 Siemens Energy AG (Germany) Competitive Strengths & Weaknesses
- 9.20 Honeywell UOP (US)
- 9.20.1 Honeywell UOP (US) Details
- 9.20.2 Honeywell UOP (US) Major Business
- 9.20.3 Honeywell UOP (US) Partial Oxidation Blue Hydrogen Product and Services
- 9.20.4 Honeywell UOP (US) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.20.5 Honeywell UOP (US) Recent Developments/Updates
- 9.20.6 Honeywell UOP (US) Competitive Strengths & Weaknesses
- 9.21 SINOPEC (China)
- 9.21.1 SINOPEC (China) Details
- 9.21.2 SINOPEC (China) Major Business
- 9.21.3 SINOPEC (China) Partial Oxidation Blue Hydrogen Product and Services
- 9.21.4 SINOPEC (China) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.21.5 SINOPEC (China) Recent Developments/Updates
- 9.21.6 SINOPEC (China) Competitive Strengths & Weaknesses
- 9.22 China National Offshore Oil Corp. (CNOOC) (China)

- 9.22.1 China National Offshore Oil Corp. (CNOOC) (China) Details
- 9.22.2 China National Offshore Oil Corp. (CNOOC) (China) Major Business
- 9.22.3 China National Offshore Oil Corp. (CNOOC) (China) Partial Oxidation Blue Hydrogen Product and Services
- 9.22.4 China National Offshore Oil Corp. (CNOOC) (China) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.22.5 China National Offshore Oil Corp. (CNOOC) (China) Recent Developments/Updates
- 9.22.6 China National Offshore Oil Corp. (CNOOC) (China) Competitive Strengths & Weaknesses
- 9.23 China National Petroleum Corp. (CNPC) (China)
 - 9.23.1 China National Petroleum Corp. (CNPC) (China) Details
 - 9.23.2 China National Petroleum Corp. (CNPC) (China) Major Business
 - 9.23.3 China National Petroleum Corp. (CNPC) (China) Partial Oxidation Blue Hydrogen Product and Services
 - 9.23.4 China National Petroleum Corp. (CNPC) (China) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.23.5 China National Petroleum Corp. (CNPC) (China) Recent Developments/Updates
 - 9.23.6 China National Petroleum Corp. (CNPC) (China) Competitive Strengths & Weaknesses
- 9.24 Beijing SinoHytec Co., Ltd. (China)
 - 9.24.1 Beijing SinoHytec Co., Ltd. (China) Details
 - 9.24.2 Beijing SinoHytec Co., Ltd. (China) Major Business
 - 9.24.3 Beijing SinoHytec Co., Ltd. (China) Partial Oxidation Blue Hydrogen Product and Services
 - 9.24.4 Beijing SinoHytec Co., Ltd. (China) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.24.5 Beijing SinoHytec Co., Ltd. (China) Recent Developments/Updates
 - 9.24.6 Beijing SinoHytec Co., Ltd. (China) Competitive Strengths & Weaknesses
- 9.25 Huaneng Group (China)
 - 9.25.1 Huaneng Group (China) Details
 - 9.25.2 Huaneng Group (China) Major Business
 - 9.25.3 Huaneng Group (China) Partial Oxidation Blue Hydrogen Product and Services
 - 9.25.4 Huaneng Group (China) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.25.5 Huaneng Group (China) Recent Developments/Updates
 - 9.25.6 Huaneng Group (China) Competitive Strengths & Weaknesses
- 9.26 State Power Investment Corp. (SPIC) (China)

- 9.26.1 State Power Investment Corp. (SPIC) (China) Details
- 9.26.2 State Power Investment Corp. (SPIC) (China) Major Business
- 9.26.3 State Power Investment Corp. (SPIC) (China) Partial Oxidation Blue Hydrogen Product and Services
- 9.26.4 State Power Investment Corp. (SPIC) (China) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.26.5 State Power Investment Corp. (SPIC) (China) Recent Developments/Updates
- 9.26.6 State Power Investment Corp. (SPIC) (China) Competitive Strengths & Weaknesses
- 9.27 Air Products Qudra (APQ) (Saudi Arabia)
 - 9.27.1 Air Products Qudra (APQ) (Saudi Arabia) Details
 - 9.27.2 Air Products Qudra (APQ) (Saudi Arabia) Major Business
 - 9.27.3 Air Products Qudra (APQ) (Saudi Arabia) Partial Oxidation Blue Hydrogen Product and Services
 - 9.27.4 Air Products Qudra (APQ) (Saudi Arabia) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.27.5 Air Products Qudra (APQ) (Saudi Arabia) Recent Developments/Updates
 - 9.27.6 Air Products Qudra (APQ) (Saudi Arabia) Competitive Strengths & Weaknesses
- 9.28 Reliance Industries Ltd (India)
 - 9.28.1 Reliance Industries Ltd (India) Details
 - 9.28.2 Reliance Industries Ltd (India) Major Business
 - 9.28.3 Reliance Industries Ltd (India) Partial Oxidation Blue Hydrogen Product and Services
 - 9.28.4 Reliance Industries Ltd (India) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.28.5 Reliance Industries Ltd (India) Recent Developments/Updates
 - 9.28.6 Reliance Industries Ltd (India) Competitive Strengths & Weaknesses
- 9.29 GAIL (India) Ltd (India)
 - 9.29.1 GAIL (India) Ltd (India) Details
 - 9.29.2 GAIL (India) Ltd (India) Major Business
 - 9.29.3 GAIL (India) Ltd (India) Partial Oxidation Blue Hydrogen Product and Services
 - 9.29.4 GAIL (India) Ltd (India) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.29.5 GAIL (India) Ltd (India) Recent Developments/Updates
 - 9.29.6 GAIL (India) Ltd (India) Competitive Strengths & Weaknesses
- 9.30 Indian Oil Corporation Ltd (India)
 - 9.30.1 Indian Oil Corporation Ltd (India) Details
 - 9.30.2 Indian Oil Corporation Ltd (India) Major Business
 - 9.30.3 Indian Oil Corporation Ltd (India) Partial Oxidation Blue Hydrogen Product and

Services

9.30.4 Indian Oil Corporation Ltd (India) Partial Oxidation Blue Hydrogen Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.30.5 Indian Oil Corporation Ltd (India) Recent Developments/Updates

9.30.6 Indian Oil Corporation Ltd (India) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Partial Oxidation Blue Hydrogen Industry Chain

10.2 Partial Oxidation Blue Hydrogen Upstream Analysis

10.2.1 Partial Oxidation Blue Hydrogen Core Raw Materials

10.2.2 Main Manufacturers of Partial Oxidation Blue Hydrogen Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Partial Oxidation Blue Hydrogen Production Mode

10.6 Partial Oxidation Blue Hydrogen Procurement Model

10.7 Partial Oxidation Blue Hydrogen Industry Sales Model and Sales Channels

10.7.1 Partial Oxidation Blue Hydrogen Sales Model

10.7.2 Partial Oxidation Blue Hydrogen Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Partial Oxidation Blue Hydrogen Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Partial Oxidation Blue Hydrogen Production Value by Region (2021-2026) & (USD Million)

Table 3. World Partial Oxidation Blue Hydrogen Production Value by Region (2027-2032) & (USD Million)

Table 4. World Partial Oxidation Blue Hydrogen Production Value Market Share by Region (2021-2026)

Table 5. World Partial Oxidation Blue Hydrogen Production Value Market Share by Region (2027-2032)

Table 6. World Partial Oxidation Blue Hydrogen Production by Region (2021-2026) & (Tons)

Table 7. World Partial Oxidation Blue Hydrogen Production by Region (2027-2032) & (Tons)

Table 8. World Partial Oxidation Blue Hydrogen Production Market Share by Region (2021-2026)

Table 9. World Partial Oxidation Blue Hydrogen Production Market Share by Region (2027-2032)

Table 10. World Partial Oxidation Blue Hydrogen Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Partial Oxidation Blue Hydrogen Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Partial Oxidation Blue Hydrogen Major Market Trends

Table 13. World Partial Oxidation Blue Hydrogen Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Partial Oxidation Blue Hydrogen Consumption by Region (2021-2026) & (Tons)

Table 15. World Partial Oxidation Blue Hydrogen Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Partial Oxidation Blue Hydrogen Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Partial Oxidation Blue Hydrogen Producers in 2025

Table 18. World Partial Oxidation Blue Hydrogen Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Partial Oxidation Blue Hydrogen Producers in 2025

Table 20. World Partial Oxidation Blue Hydrogen Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Partial Oxidation Blue Hydrogen Company Evaluation Quadrant

Table 22. World Partial Oxidation Blue Hydrogen Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Partial Oxidation Blue Hydrogen Production Site of Key Manufacturer

Table 24. Partial Oxidation Blue Hydrogen Market: Company Product Type Footprint

Table 25. Partial Oxidation Blue Hydrogen Market: Company Product Application Footprint

Table 26. Partial Oxidation Blue Hydrogen Competitive Factors

Table 27. Partial Oxidation Blue Hydrogen New Entrant and Capacity Expansion Plans

Table 28. Partial Oxidation Blue Hydrogen Mergers & Acquisitions Activity

Table 29. United States VS China Partial Oxidation Blue Hydrogen Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Partial Oxidation Blue Hydrogen Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Partial Oxidation Blue Hydrogen Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Partial Oxidation Blue Hydrogen Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Partial Oxidation Blue Hydrogen Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Partial Oxidation Blue Hydrogen Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Partial Oxidation Blue Hydrogen Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Partial Oxidation Blue Hydrogen Production Market Share (2021-2026)

Table 37. China Based Partial Oxidation Blue Hydrogen Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Partial Oxidation Blue Hydrogen Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Partial Oxidation Blue Hydrogen Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Partial Oxidation Blue Hydrogen Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Partial Oxidation Blue Hydrogen Production Market Share (2021-2026)

Table 42. Rest of World Based Partial Oxidation Blue Hydrogen Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Partial Oxidation Blue Hydrogen Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Partial Oxidation Blue Hydrogen Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Partial Oxidation Blue Hydrogen Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Partial Oxidation Blue Hydrogen Production Market Share (2021-2026)

Table 47. World Partial Oxidation Blue Hydrogen Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Partial Oxidation Blue Hydrogen Production by Type (2021-2026) & (Tons)

Table 49. World Partial Oxidation Blue Hydrogen Production by Type (2027-2032) & (Tons)

Table 50. World Partial Oxidation Blue Hydrogen Production Value by Type (2021-2026) & (USD Million)

Table 51. World Partial Oxidation Blue Hydrogen Production Value by Type (2027-2032) & (USD Million)

Table 52. World Partial Oxidation Blue Hydrogen Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Partial Oxidation Blue Hydrogen Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Partial Oxidation Blue Hydrogen Production Value by Carbon Capture Rate, (USD Million), 2021 & 2025 & 2032

Table 55. World Partial Oxidation Blue Hydrogen Production by Carbon Capture Rate (2021-2026) & (Tons)

Table 56. World Partial Oxidation Blue Hydrogen Production by Carbon Capture Rate (2027-2032) & (Tons)

Table 57. World Partial Oxidation Blue Hydrogen Production Value by Carbon Capture Rate (2021-2026) & (USD Million)

Table 58. World Partial Oxidation Blue Hydrogen Production Value by Carbon Capture Rate (2027-2032) & (USD Million)

Table 59. World Partial Oxidation Blue Hydrogen Average Price by Carbon Capture Rate (2021-2026) & (US\$/Ton)

Table 60. World Partial Oxidation Blue Hydrogen Average Price by Carbon Capture

Rate (2027-2032) & (US\$/Ton)

Table 61. World Partial Oxidation Blue Hydrogen Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 62. World Partial Oxidation Blue Hydrogen Production by Product Form (2021-2026) & (Tons)

Table 63. World Partial Oxidation Blue Hydrogen Production by Product Form (2027-2032) & (Tons)

Table 64. World Partial Oxidation Blue Hydrogen Production Value by Product Form (2021-2026) & (USD Million)

Table 65. World Partial Oxidation Blue Hydrogen Production Value by Product Form (2027-2032) & (USD Million)

Table 66. World Partial Oxidation Blue Hydrogen Average Price by Product Form (2021-2026) & (US\$/Ton)

Table 67. World Partial Oxidation Blue Hydrogen Average Price by Product Form (2027-2032) & (US\$/Ton)

Table 68. World Partial Oxidation Blue Hydrogen Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Partial Oxidation Blue Hydrogen Production by Application (2021-2026) & (Tons)

Table 70. World Partial Oxidation Blue Hydrogen Production by Application (2027-2032) & (Tons)

Table 71. World Partial Oxidation Blue Hydrogen Production Value by Application (2021-2026) & (USD Million)

Table 72. World Partial Oxidation Blue Hydrogen Production Value by Application (2027-2032) & (USD Million)

Table 73. World Partial Oxidation Blue Hydrogen Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Partial Oxidation Blue Hydrogen Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Shell plc (Netherlands) Basic Information, Manufacturing Base and Competitors

Table 76. Shell plc (Netherlands) Major Business

Table 77. Shell plc (Netherlands) Partial Oxidation Blue Hydrogen Product and Services

Table 78. Shell plc (Netherlands) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Shell plc (Netherlands) Recent Developments/Updates

Table 80. Shell plc (Netherlands) Competitive Strengths & Weaknesses

Table 81. Air Products & Chemicals Inc. (US) Basic Information, Manufacturing Base

and Competitors

Table 82. Air Products & Chemicals Inc. (US) Major Business

Table 83. Air Products & Chemicals Inc. (US) Partial Oxidation Blue Hydrogen Product and Services

Table 84. Air Products & Chemicals Inc. (US) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Air Products & Chemicals Inc. (US) Recent Developments/Updates

Table 86. Air Products & Chemicals Inc. (US) Competitive Strengths & Weaknesses

Table 87. Linde plc (UK) Basic Information, Manufacturing Base and Competitors

Table 88. Linde plc (UK) Major Business

Table 89. Linde plc (UK) Partial Oxidation Blue Hydrogen Product and Services

Table 90. Linde plc (UK) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Linde plc (UK) Recent Developments/Updates

Table 92. Linde plc (UK) Competitive Strengths & Weaknesses

Table 93. Air Liquide S.A. (France) Basic Information, Manufacturing Base and Competitors

Table 94. Air Liquide S.A. (France) Major Business

Table 95. Air Liquide S.A. (France) Partial Oxidation Blue Hydrogen Product and Services

Table 96. Air Liquide S.A. (France) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Air Liquide S.A. (France) Recent Developments/Updates

Table 98. Air Liquide S.A. (France) Competitive Strengths & Weaknesses

Table 99. Equinor ASA (Norway) Basic Information, Manufacturing Base and Competitors

Table 100. Equinor ASA (Norway) Major Business

Table 101. Equinor ASA (Norway) Partial Oxidation Blue Hydrogen Product and Services

Table 102. Equinor ASA (Norway) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Equinor ASA (Norway) Recent Developments/Updates

Table 104. Equinor ASA (Norway) Competitive Strengths & Weaknesses

Table 105. ExxonMobil Corp. (US) Basic Information, Manufacturing Base and Competitors

Table 106. ExxonMobil Corp. (US) Major Business

Table 107. ExxonMobil Corp. (US) Partial Oxidation Blue Hydrogen Product and Services

Table 108. ExxonMobil Corp. (US) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. ExxonMobil Corp. (US) Recent Developments/Updates

Table 110. ExxonMobil Corp. (US) Competitive Strengths & Weaknesses

Table 111. BP plc (UK) Basic Information, Manufacturing Base and Competitors

Table 112. BP plc (UK) Major Business

Table 113. BP plc (UK) Partial Oxidation Blue Hydrogen Product and Services

Table 114. BP plc (UK) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. BP plc (UK) Recent Developments/Updates

Table 116. BP plc (UK) Competitive Strengths & Weaknesses

Table 117. TotalEnergies SE (France) Basic Information, Manufacturing Base and Competitors

Table 118. TotalEnergies SE (France) Major Business

Table 119. TotalEnergies SE (France) Partial Oxidation Blue Hydrogen Product and Services

Table 120. TotalEnergies SE (France) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. TotalEnergies SE (France) Recent Developments/Updates

Table 122. TotalEnergies SE (France) Competitive Strengths & Weaknesses

Table 123. Uniper SE (Germany) Basic Information, Manufacturing Base and Competitors

Table 124. Uniper SE (Germany) Major Business

Table 125. Uniper SE (Germany) Partial Oxidation Blue Hydrogen Product and Services

Table 126. Uniper SE (Germany) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Uniper SE (Germany) Recent Developments/Updates

Table 128. Uniper SE (Germany) Competitive Strengths & Weaknesses

Table 129. Mitsubishi Heavy Industries (Japan) Basic Information, Manufacturing Base and Competitors

Table 130. Mitsubishi Heavy Industries (Japan) Major Business

Table 131. Mitsubishi Heavy Industries (Japan) Partial Oxidation Blue Hydrogen

Product and Services

Table 132. Mitsubishi Heavy Industries (Japan) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Mitsubishi Heavy Industries (Japan) Recent Developments/Updates

Table 134. Mitsubishi Heavy Industries (Japan) Competitive Strengths & Weaknesses

Table 135. Saudi Aramco (Saudi Arabia) Basic Information, Manufacturing Base and Competitors

Table 136. Saudi Aramco (Saudi Arabia) Major Business

Table 137. Saudi Aramco (Saudi Arabia) Partial Oxidation Blue Hydrogen Product and Services

Table 138. Saudi Aramco (Saudi Arabia) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Saudi Aramco (Saudi Arabia) Recent Developments/Updates

Table 140. Saudi Aramco (Saudi Arabia) Competitive Strengths & Weaknesses

Table 141. ADNOC (UAE) Basic Information, Manufacturing Base and Competitors

Table 142. ADNOC (UAE) Major Business

Table 143. ADNOC (UAE) Partial Oxidation Blue Hydrogen Product and Services

Table 144. ADNOC (UAE) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. ADNOC (UAE) Recent Developments/Updates

Table 146. ADNOC (UAE) Competitive Strengths & Weaknesses

Table 147. INPEX Corporation (Japan) Basic Information, Manufacturing Base and Competitors

Table 148. INPEX Corporation (Japan) Major Business

Table 149. INPEX Corporation (Japan) Partial Oxidation Blue Hydrogen Product and Services

Table 150. INPEX Corporation (Japan) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. INPEX Corporation (Japan) Recent Developments/Updates

Table 152. INPEX Corporation (Japan) Competitive Strengths & Weaknesses

Table 153. Doosan Enerbility (South Korea) Basic Information, Manufacturing Base and Competitors

Table 154. Doosan Enerbility (South Korea) Major Business

Table 155. Doosan Enerbility (South Korea) Partial Oxidation Blue Hydrogen Product and Services

Table 156. Doosan Enerbility (South Korea) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Doosan Enerbility (South Korea) Recent Developments/Updates

Table 158. Doosan Enerbility (South Korea) Competitive Strengths & Weaknesses

Table 159. Clariant AG (Switzerland) Basic Information, Manufacturing Base and Competitors

Table 160. Clariant AG (Switzerland) Major Business

Table 161. Clariant AG (Switzerland) Partial Oxidation Blue Hydrogen Product and Services

Table 162. Clariant AG (Switzerland) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Clariant AG (Switzerland) Recent Developments/Updates

Table 164. Clariant AG (Switzerland) Competitive Strengths & Weaknesses

Table 165. Johnson Matthey (UK) Basic Information, Manufacturing Base and Competitors

Table 166. Johnson Matthey (UK) Major Business

Table 167. Johnson Matthey (UK) Partial Oxidation Blue Hydrogen Product and Services

Table 168. Johnson Matthey (UK) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Johnson Matthey (UK) Recent Developments/Updates

Table 170. Johnson Matthey (UK) Competitive Strengths & Weaknesses

Table 171. Trillium H2 Power LLC (US) Basic Information, Manufacturing Base and Competitors

Table 172. Trillium H2 Power LLC (US) Major Business

Table 173. Trillium H2 Power LLC (US) Partial Oxidation Blue Hydrogen Product and Services

Table 174. Trillium H2 Power LLC (US) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Trillium H2 Power LLC (US) Recent Developments/Updates

Table 176. Trillium H2 Power LLC (US) Competitive Strengths & Weaknesses

Table 177. Dastur Energy (US/India) Basic Information, Manufacturing Base and Competitors

Table 178. Dastur Energy (US/India) Major Business

Table 179. Dastur Energy (US/India) Partial Oxidation Blue Hydrogen Product and

Services

Table 180. Dastur Energy (US/India) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Dastur Energy (US/India) Recent Developments/Updates

Table 182. Dastur Energy (US/India) Competitive Strengths & Weaknesses

Table 183. Siemens Energy AG (Germany) Basic Information, Manufacturing Base and Competitors

Table 184. Siemens Energy AG (Germany) Major Business

Table 185. Siemens Energy AG (Germany) Partial Oxidation Blue Hydrogen Product and Services

Table 186. Siemens Energy AG (Germany) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Siemens Energy AG (Germany) Recent Developments/Updates

Table 188. Siemens Energy AG (Germany) Competitive Strengths & Weaknesses

Table 189. Honeywell UOP (US) Basic Information, Manufacturing Base and Competitors

Table 190. Honeywell UOP (US) Major Business

Table 191. Honeywell UOP (US) Partial Oxidation Blue Hydrogen Product and Services

Table 192. Honeywell UOP (US) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Honeywell UOP (US) Recent Developments/Updates

Table 194. Honeywell UOP (US) Competitive Strengths & Weaknesses

Table 195. SINOPEC (China) Basic Information, Manufacturing Base and Competitors

Table 196. SINOPEC (China) Major Business

Table 197. SINOPEC (China) Partial Oxidation Blue Hydrogen Product and Services

Table 198. SINOPEC (China) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. SINOPEC (China) Recent Developments/Updates

Table 200. SINOPEC (China) Competitive Strengths & Weaknesses

Table 201. China National Offshore Oil Corp. (CNOOC) (China) Basic Information, Manufacturing Base and Competitors

Table 202. China National Offshore Oil Corp. (CNOOC) (China) Major Business

Table 203. China National Offshore Oil Corp. (CNOOC) (China) Partial Oxidation Blue Hydrogen Product and Services

Table 204. China National Offshore Oil Corp. (CNOOC) (China) Partial Oxidation Blue

Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. China National Offshore Oil Corp. (CNOOC) (China) Recent Developments/Updates

Table 206. China National Offshore Oil Corp. (CNOOC) (China) Competitive Strengths & Weaknesses

Table 207. China National Petroleum Corp. (CNPC) (China) Basic Information, Manufacturing Base and Competitors

Table 208. China National Petroleum Corp. (CNPC) (China) Major Business

Table 209. China National Petroleum Corp. (CNPC) (China) Partial Oxidation Blue Hydrogen Product and Services

Table 210. China National Petroleum Corp. (CNPC) (China) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. China National Petroleum Corp. (CNPC) (China) Recent Developments/Updates

Table 212. China National Petroleum Corp. (CNPC) (China) Competitive Strengths & Weaknesses

Table 213. Beijing SinoHytec Co., Ltd. (China) Basic Information, Manufacturing Base and Competitors

Table 214. Beijing SinoHytec Co., Ltd. (China) Major Business

Table 215. Beijing SinoHytec Co., Ltd. (China) Partial Oxidation Blue Hydrogen Product and Services

Table 216. Beijing SinoHytec Co., Ltd. (China) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Beijing SinoHytec Co., Ltd. (China) Recent Developments/Updates

Table 218. Beijing SinoHytec Co., Ltd. (China) Competitive Strengths & Weaknesses

Table 219. Huaneng Group (China) Basic Information, Manufacturing Base and Competitors

Table 220. Huaneng Group (China) Major Business

Table 221. Huaneng Group (China) Partial Oxidation Blue Hydrogen Product and Services

Table 222. Huaneng Group (China) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. Huaneng Group (China) Recent Developments/Updates

Table 224. Huaneng Group (China) Competitive Strengths & Weaknesses

Table 225. State Power Investment Corp. (SPIC) (China) Basic Information,

Manufacturing Base and Competitors

Table 226. State Power Investment Corp. (SPIC) (China) Major Business

Table 227. State Power Investment Corp. (SPIC) (China) Partial Oxidation Blue Hydrogen Product and Services

Table 228. State Power Investment Corp. (SPIC) (China) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. State Power Investment Corp. (SPIC) (China) Recent Developments/Updates

Table 230. State Power Investment Corp. (SPIC) (China) Competitive Strengths & Weaknesses

Table 231. Air Products Qudra (APQ) (Saudi Arabia) Basic Information, Manufacturing Base and Competitors

Table 232. Air Products Qudra (APQ) (Saudi Arabia) Major Business

Table 233. Air Products Qudra (APQ) (Saudi Arabia) Partial Oxidation Blue Hydrogen Product and Services

Table 234. Air Products Qudra (APQ) (Saudi Arabia) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 235. Air Products Qudra (APQ) (Saudi Arabia) Recent Developments/Updates

Table 236. Air Products Qudra (APQ) (Saudi Arabia) Competitive Strengths & Weaknesses

Table 237. Reliance Industries Ltd (India) Basic Information, Manufacturing Base and Competitors

Table 238. Reliance Industries Ltd (India) Major Business

Table 239. Reliance Industries Ltd (India) Partial Oxidation Blue Hydrogen Product and Services

Table 240. Reliance Industries Ltd (India) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 241. Reliance Industries Ltd (India) Recent Developments/Updates

Table 242. Reliance Industries Ltd (India) Competitive Strengths & Weaknesses

Table 243. GAIL (India) Ltd (India) Basic Information, Manufacturing Base and Competitors

Table 244. GAIL (India) Ltd (India) Major Business

Table 245. GAIL (India) Ltd (India) Partial Oxidation Blue Hydrogen Product and Services

Table 246. GAIL (India) Ltd (India) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 247. GAIL (India) Ltd (India) Recent Developments/Updates

Table 248. GAIL (India) Ltd (India) Competitive Strengths & Weaknesses

Table 249. Indian Oil Corporation Ltd (India) Basic Information, Manufacturing Base and Competitors

Table 250. Indian Oil Corporation Ltd (India) Major Business

Table 251. Indian Oil Corporation Ltd (India) Partial Oxidation Blue Hydrogen Product and Services

Table 252. Indian Oil Corporation Ltd (India) Partial Oxidation Blue Hydrogen Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 253. Indian Oil Corporation Ltd (India) Recent Developments/Updates

Table 254. Indian Oil Corporation Ltd (India) Competitive Strengths & Weaknesses

Table 255. Global Key Players of Partial Oxidation Blue Hydrogen Upstream (Raw Materials)

Table 256. Global Partial Oxidation Blue Hydrogen Typical Customers

Table 257. Partial Oxidation Blue Hydrogen Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Partial Oxidation Blue Hydrogen Picture

Figure 2. World Partial Oxidation Blue Hydrogen Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Partial Oxidation Blue Hydrogen Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Partial Oxidation Blue Hydrogen Production (2021-2032) & (Tons)

Figure 5. World Partial Oxidation Blue Hydrogen Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Partial Oxidation Blue Hydrogen Production Value Market Share by Region (2021-2032)

Figure 7. World Partial Oxidation Blue Hydrogen Production Market Share by Region (2021-2032)

Figure 8. North America Partial Oxidation Blue Hydrogen Production (2021-2032) & (Tons)

Figure 9. Europe Partial Oxidation Blue Hydrogen Production (2021-2032) & (Tons)

Figure 10. China Partial Oxidation Blue Hydrogen Production (2021-2032) & (Tons)

Figure 11. Japan Partial Oxidation Blue Hydrogen Production (2021-2032) & (Tons)

Figure 12. India Partial Oxidation Blue Hydrogen Production (2021-2032) & (Tons)

Figure 13. Southeast Asia Partial Oxidation Blue Hydrogen Production (2021-2032) & (Tons)

Figure 14. Partial Oxidation Blue Hydrogen Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Partial Oxidation Blue Hydrogen Consumption (2021-2032) & (Tons)

Figure 17. World Partial Oxidation Blue Hydrogen Consumption Market Share by Region (2021-2032)

Figure 18. United States Partial Oxidation Blue Hydrogen Consumption (2021-2032) & (Tons)

Figure 19. China Partial Oxidation Blue Hydrogen Consumption (2021-2032) & (Tons)

Figure 20. Europe Partial Oxidation Blue Hydrogen Consumption (2021-2032) & (Tons)

Figure 21. Japan Partial Oxidation Blue Hydrogen Consumption (2021-2032) & (Tons)

Figure 22. South Korea Partial Oxidation Blue Hydrogen Consumption (2021-2032) & (Tons)

Figure 23. ASEAN Partial Oxidation Blue Hydrogen Consumption (2021-2032) & (Tons)

Figure 24. India Partial Oxidation Blue Hydrogen Consumption (2021-2032) & (Tons)

Figure 25. Producer Shipments of Partial Oxidation Blue Hydrogen by Manufacturer

Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Partial Oxidation Blue Hydrogen Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Partial Oxidation Blue Hydrogen Markets in 2025

Figure 28. United States VS China: Partial Oxidation Blue Hydrogen Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Partial Oxidation Blue Hydrogen Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Partial Oxidation Blue Hydrogen Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Partial Oxidation Blue Hydrogen Production Market Share 2025

Figure 32. China Based Manufacturers Partial Oxidation Blue Hydrogen Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Partial Oxidation Blue Hydrogen Production Market Share 2025

Figure 34. World Partial Oxidation Blue Hydrogen Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Partial Oxidation Blue Hydrogen Production Value Market Share by Type in 2025

Figure 36. Non Catalytic Partial Oxidation

Figure 37. Catalytic Partial Oxidation

Figure 38. Autothermal Reforming + POX Hybrid

Figure 39. POX Integrated with CO₂ Capture

Figure 40. Others

Figure 41. World Partial Oxidation Blue Hydrogen Production Market Share by Type (2021-2032)

Figure 42. World Partial Oxidation Blue Hydrogen Production Value Market Share by Type (2021-2032)

Figure 43. World Partial Oxidation Blue Hydrogen Average Price by Type (2021-2032) & (US\$/Ton)

Figure 44. World Partial Oxidation Blue Hydrogen Production Value by Carbon Capture Rate, (USD Million), 2021 & 2025 & 2032

Figure 45. World Partial Oxidation Blue Hydrogen Production Value Market Share by Carbon Capture Rate in 2025

Figure 46. High Capture (>95%)

Figure 47. Medium Capture (85–94%)

Figure 48. Minimum Blue Standard (70–84%)

Figure 49. Below Blue Threshold (?69%)

Figure 50. Others

Figure 51. World Partial Oxidation Blue Hydrogen Production Market Share by Carbon Capture Rate (2021-2032)

Figure 52. World Partial Oxidation Blue Hydrogen Production Value Market Share by Carbon Capture Rate (2021-2032)

Figure 53. World Partial Oxidation Blue Hydrogen Average Price by Carbon Capture Rate (2021-2032) & (US\$/Ton)

Figure 54. World Partial Oxidation Blue Hydrogen Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 55. World Partial Oxidation Blue Hydrogen Production Value Market Share by Product Form in 2025

Figure 56. High Purity Gaseous Hydrogen

Figure 57. Syngas

Figure 58. Blue Ammonia

Figure 59. Blue Methanol

Figure 60. Others

Figure 61. World Partial Oxidation Blue Hydrogen Production Market Share by Product Form (2021-2032)

Figure 62. World Partial Oxidation Blue Hydrogen Production Value Market Share by Product Form (2021-2032)

Figure 63. World Partial Oxidation Blue Hydrogen Average Price by Product Form (2021-2032) & (US\$/Ton)

Figure 64. World Partial Oxidation Blue Hydrogen Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 65. World Partial Oxidation Blue Hydrogen Production Value Market Share by Application in 2025

Figure 66. Oil Refining

Figure 67. Methanol and Chemical Synthesis

Figure 68. Steelmaking

Figure 69. Power Generation

Figure 70. Others

Figure 71. World Partial Oxidation Blue Hydrogen Production Market Share by Application (2021-2032)

Figure 72. World Partial Oxidation Blue Hydrogen Production Value Market Share by Application (2021-2032)

Figure 73. World Partial Oxidation Blue Hydrogen Average Price by Application (2021-2032) & (US\$/Ton)

Figure 74. Partial Oxidation Blue Hydrogen Industry Chain

Figure 75. Partial Oxidation Blue Hydrogen Procurement Model

Figure 76. Partial Oxidation Blue Hydrogen Sales Model

Figure 77. Partial Oxidation Blue Hydrogen Sales Channels, Direct Sales, and Distribution

Figure 78. Methodology

Figure 79. Research Process and Data Source

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