

# **Global Syngas & Derivatives Market By Production Technology (Partial Oxidation, Steam Reforming, Autothermal Reforming, Biomass Gasification, Others), By Gasifier Type (Entrained Flow Gasifier, Fixed (Moving) Bed Gasifier, Fluidized Bed Gasifier, Others), By Feedstock (Natural Gas, Coal, Petroleum By Products, Biomass/Waste), By Application (Chemicals & Fertilizer, Fuel, and Electricity), By Chemical Derivatives (Ammonia, Methanol, Others), By Consumption (Captive, Merchant), By Region, Competition, Forecast and Opportunities, 2017-2027**

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## **Abstracts**

Global Syngas & Derivatives Market stood at USD248.89 billion in 2021 and is expected to grow at a CAGR of 6.27% during the forecast period due to increasing use of syngas in chemical industry and syngas' use as a clean alternative to fossil fuel. Synthesis gas is a catch-all name for unprocessed gas made from hydrocarbon feedstocks, with primary constituents being hydrogen and carbon monoxide and secondary constituents being CO<sub>2</sub>, methane, etc. Syngas is a necessary step in the production of gasoline, chemicals, and fertilizers. Examples of important derivatives include methanol, ammonia, high-speed diesel, polymers, etc. It is an intermediate product that can be further processed in several ways to yield various energy outputs, including electricity and high-quality gaseous or liquid fuels that can be used as transportation fuels.

Government Inclination Towards Syngas

The governments of different nations are adopting several actions to reduce greenhouse gases, which are one of the key reasons behind global warming. The Indian government recently gave instructions to Coal India Ltd (CIL) and Singareni Collieries Company Ltd. (SCCL) to add a new subsector regarding the auction of coal linkages to the Non-Regulated Sector and to establish a separate auction window for the allocation of coal linkages to coal gasification projects. The Coal Block Allocation Rules, 2017 of India have already designated the production of syngas as one of the end-use sectors.

### Mergers and Acquisitions in Asia-Pacific

To enhance their market share, companies in the global syngas and derivatives industry are investing in inorganic growth techniques. For instance, in order to build, own, and operate a successful coal-to-syngas processing facility in Jiangsu Province, China, Air Products and Debang Xinghua Technology Co. Ltd. established a joint venture (JV) in 2019. Air Products owns 80% of the JV, which has its headquarters in Lianyungang City's Xuwei National Petrochemical Park, and the Debang Group owns 20%. Leigh Creek Energy, another firm, secured USD18 million in funding in 2021 for a project in South Australia to generate syngas and electricity. Similarly, in 2019 Geismar, Louisiana, US-based Praxair, a wholly owned subsidiary of Linde PLC, opened a syngas plant.

### Research on Syngas Fermentation using Bibliometrics

Carbon cycling and valorization can be replaced by syngas fermentation, which uses microorganisms to convert H<sub>2</sub>, CO, and CO<sub>2</sub> into acids and alcohols. An evaluation of the intellectual landscape of the subject is done using a bibliometric study and a search query (SQ) that covers all essential papers on syngas fermentation. The SQ is validated using a preliminary bibliometric analysis and a review of the titles and abstracts of all sources. Research on syngas fermentation is currently receiving a lot of attention since it intends to boost microorganism productivity by changing their metabolism and enhancing the bioreactor's working environment.

### European and American Gasification Trends.

According to the terms of a contract signed on July 23, 2020, NextChem and US carbon recycling company LanzaTech have been granted licences to use the 'Waste to Ethanol' syngas fermentation process line. In a similar vein, a waste gasification facility with a 1.5 MW pressurised fluidized bed started producing clean syngas in Birmingham,

United Kingdom, in 2020. This syngas can be used to produce power, heat, hydrogen, and liquid biofuels. In order to demonstrate integrated gasification and pyrolysis at a CHP plant, BioShare, a Swedish firm, recently obtained funding (USD1.72 million, 2020–2024).

## Market Segmentation

The Global Syngas & Derivatives Market is segmented based on Production Technology, Gasifier Type, Feedstock, Application, Chemical Derivatives, Consumption, Region and Company. Based on production technology, the market can be split into Steam Reforming, Partial Oxidation, Autothermal Reforming, Biomass Gasification, Others. Based on Gasifier Type, the market can be divided into Fixed (Moving) Bed Gasifier, Entrained Flow Gasifier, Fluidized Bed Gasifier, Others. Based on Application, the market can be segmented into Chemicals & Fertilizer, Fuel, Electricity. Based on Chemical Derivatives, the market can be divided into Ammonia, Methanol, Others. Based on consumption, the market can be divided into Captive and Merchant.

## Company Profiles

Linde PLC, Air Liquide S.A., Air Products and Chemicals, Inc. Yingde Gases Group Company, Sasol Limited, Saudi Aramco Oil Company, TechnipFMC PLC, Messe Group GmbH, Haldor Topsoe A/S are among the major market players operating in the Global Syngas & Derivatives Market.

## Report Scope:

In this report, Global Syngas & Derivatives Market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

### Syngas & Derivatives Market, By Production Technology:

Partial Oxidation

Steam Reforming

Autothermal Reforming

Biomass Gasification

Others

Global Syngas & Derivatives Market, By Gasifier Type:

Entrained Flow Gasifier

Fixed (Moving) Bed Gasifier

Fluidized Bed Gasifier

Others

Global Syngas & Derivatives Market, By Feedstock:

Natural Gas

Coal

Petroleum By Products

Biomass/Waste

Global Syngas & Derivatives Market, By Application:

Chemicals & Fertilizer

Fuel

Electricity

Global Syngas & Derivatives Market, By Chemical Derivatives:

Ammonia

Methanol

Others

Global Syngas & Derivatives Market, By Consumption:

Captive

Merchant

## Global Syngas & Derivatives Market, By Region:

Asia-Pacific

China

India

Australia

South Korea

Japan

Rest of Asia Pacific

Middle East & Africa

Saudi Arabia

South Africa

UAE

Rest of Middle East & Africa

Europe

Russia

Germany

United Kingdom

France

Italy

Rest of Europe

North America

United States

Canada

Mexico

South America

Argentina

Brazil

Colombia

Rest of South America

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Global Syngas & Derivatives Market.

## Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).



## Contents

### 1. PRODUCT OVERVIEW

### 2. RESEARCH METHODOLOGY

### 3. EXECUTIVE SUMMARY

### 4. VOICE OF CUSTOMER

### 5. IMPACT OF COVID-19 ON GLOBAL SYNGAS & DERIVATIVES MARKET

### 6. GLOBAL SYNGAS & DERIVATIVES MARKET OVERVIEW

#### 6.1. List of Major Existing & Upcoming Syngas (HyCo) Projects

##### 6.1.1. By Ownership

##### 6.1.2. By Capacity (Nm<sup>3</sup>/h)

### 7. GLOBAL SYNGAS & DERIVATIVES MARKET OUTLOOK, 2017-2027F

#### 7.1. Market Size & Forecast

##### 7.1.1. By Value & Volume

#### 7.2. Market Share & Forecast

##### 7.2.1. By Production Technology (Partial Oxidation, Steam Reforming, Autothermal Reforming, Biomass Gasification, Others)

##### 7.2.2. By Gasifier Type (Entrained Flow Gasifier, Fixed (Moving) Bed Gasifier, Fluidized Bed Gasifier, Others)

##### 7.2.3. By Feedstock (Natural Gas, Coal, Petroleum By Products, Biomass/Waste)

##### 7.2.4. By Application (Chemicals & Fertilizer, Fuel, and Electricity)

##### 7.2.4.1. By Chemical Derivatives (Ammonia, Methanol, Others)

##### 7.2.5. By Consumption (Captive, Merchant)

##### 7.2.6. By Region

##### 7.2.7. By Company (2021)

### 8. ASIA PACIFIC SYNGAS & DERIVATIVES MARKET OUTLOOK

#### 8.1. Market Size & Forecast

##### 8.1.1. By Value & Volume

#### 8.2. Market Share & Forecast



- 8.2.1. By Production Technology
- 8.2.2. By Gasifier Type
- 8.2.3. By Feedstock
- 8.2.4. By Application
  - 8.2.4.1. By Chemical Derivatives
- 8.2.5. By Consumption
- 8.2.6. By Country
- 8.3. Asia-Pacific: Country Analysis
  - 8.3.1. China Syngas & Derivatives Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value & Volume
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Production Technology
      - 8.3.1.2.2. By Application
  - 8.3.2. India Syngas & Derivatives Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value & Volume
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Production Technology
      - 8.3.2.2.2. By Application
  - 8.3.3. Australia Syngas & Derivatives Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value & Volume
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Production Technology
      - 8.3.3.2.2. By Application
  - 8.3.4. South Korea Syngas & Derivatives Market Outlook
    - 8.3.4.1. Market Size & Forecast
      - 8.3.4.1.1. By Value & Volume
    - 8.3.4.2. Market Share & Forecast
      - 8.3.4.2.1. By Production Technology
      - 8.3.4.2.2. By Application
  - 8.3.5. Japan Syngas & Derivatives Market Outlook
    - 8.3.5.1. Market Size & Forecast
      - 8.3.5.1.1. By Value & Volume
    - 8.3.5.2. Market Share & Forecast
      - 8.3.5.2.1. By Production Technology
      - 8.3.5.2.2. By Application

## **9. MIDDLE EAST & AFRICA SYNGAS & DERIVATIVES MARKET OUTLOOK**

### 9.1. Market Size & Forecast

#### 9.1.1. By Value & Volume

### 9.2. Market Share & Forecast

#### 9.2.1. By Production Technology

#### 9.2.2. By Gasifier Type

#### 9.2.3. By Feedstock

#### 9.2.4. By Application

##### 9.2.4.1. By Chemical Derivatives

#### 9.2.5. By Consumption

#### 9.2.6. By Country

### 9.3. Middle East & Africa: Country Analysis

#### 9.3.1. Saudi Arabia Syngas & Derivatives Market Outlook

##### 9.3.1.1. Market Size & Forecast

###### 9.3.1.1.1. By Value & Volume

##### 9.3.1.2. Market Share & Forecast

###### 9.3.1.2.1. By Production Technology

###### 9.3.1.2.2. By Application

#### 9.3.2. South Africa Syngas & Derivatives Market Outlook

##### 9.3.2.1. Market Size & Forecast

###### 9.3.2.1.1. By Value & Volume

##### 9.3.2.2. Market Share & Forecast

###### 9.3.2.2.1. By Production Technology

###### 9.3.2.2.2. By Application

#### 9.3.3. UAE Syngas & Derivatives Market Outlook

##### 9.3.3.1. Market Size & Forecast

###### 9.3.3.1.1. By Value & Volume

##### 9.3.3.2. Market Share & Forecast

###### 9.3.3.2.1. By Production Technology

###### 9.3.3.2.2. By Application

## **10. EUROPE SYNGAS & DERIVATIVES MARKET OUTLOOK**

### 10.1. Market Size & Forecast

#### 10.1.1. By Value & Volume

### 10.2. Market Share & Forecast

#### 10.2.1. By Production Technology

#### 10.2.2. By Gasifier Type

- 10.2.3. By Feedstock
- 10.2.4. By Application
  - 10.2.4.1. By Chemical Derivatives
- 10.2.5. By Consumption
- 10.2.6. By Country
- 10.3. Europe: Country Analysis
  - 10.3.1. Russia Syngas & Derivatives Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value & Volume
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By Production Technology
      - 10.3.1.2.2. By Application
  - 10.3.2. Germany Syngas & Derivatives Market Outlook
    - 10.3.2.1. Market Size & Forecast
      - 10.3.2.1.1. By Value & Volume
    - 10.3.2.2. Market Share & Forecast
      - 10.3.2.2.1. By Production Technology
      - 10.3.2.2.2. By Application
  - 10.3.3. United Kingdom Syngas & Derivatives Market Outlook
    - 10.3.3.1. Market Size & Forecast
      - 10.3.3.1.1. By Value & Volume
    - 10.3.3.2. Market Share & Forecast
      - 10.3.3.2.1. By Production Technology
      - 10.3.3.2.2. By Application
  - 10.3.4. France Syngas & Derivatives Market Outlook
    - 10.3.4.1. Market Size & Forecast
      - 10.3.4.1.1. By Value & Volume
    - 10.3.4.2. Market Share & Forecast
      - 10.3.4.2.1. By Production Technology
      - 10.3.4.2.2. By Application
  - 10.3.5. Italy Syngas & Derivatives Market Outlook
    - 10.3.5.1. Market Size & Forecast
      - 10.3.5.1.1. By Value & Volume
    - 10.3.5.2. Market Share & Forecast
      - 10.3.5.2.1. By Production Technology
      - 10.3.5.2.2. By Application

## **11. NORTH AMERICA SYNGAS & DERIVATIVES MARKET OUTLOOK**

- 11.1. Market Size & Forecast
  - 11.1.1. By Value & Volume
- 11.2. Market Share & Forecast
  - 11.2.1. By Production Technology
  - 11.2.2. By Gasifier Type
  - 11.2.3. By Feedstock
  - 11.2.4. By Application
    - 11.2.4.1. By Chemical Derivatives
  - 11.2.5. By Consumption
  - 11.2.6. By Country
- 11.3. North America: Country Analysis
  - 11.3.1. United States Syngas & Derivatives Market Outlook
    - 11.3.1.1. Market Size & Forecast
      - 11.3.1.1.1. By Value & Volume
    - 11.3.1.2. Market Share & Forecast
      - 11.3.1.2.1. By Production Technology
      - 11.3.1.2.2. By Application
  - 11.3.2. Canada Syngas & Derivatives Market Outlook
    - 11.3.2.1. Market Size & Forecast
      - 11.3.2.1.1. By Value & Volume
    - 11.3.2.2. Market Share & Forecast
      - 11.3.2.2.1. By Production Technology
      - 11.3.2.2.2. By Application
  - 11.3.3. Mexico Syngas & Derivatives Market Outlook
    - 11.3.3.1. Market Size & Forecast
      - 11.3.3.1.1. By Value & Volume
    - 11.3.3.2. Market Share & Forecast
      - 11.3.3.2.1. By Production Technology
      - 11.3.3.2.2. By Application

## **12. SOUTH AMERICA SYNGAS & DERIVATIVES MARKET OUTLOOK**

- 12.1. Market Size & Forecast
  - 12.1.1. By Value & Volume
- 12.2. Market Share & Forecast
  - 12.2.1. By Production Technology
  - 12.2.2. By Gasifier Type
  - 12.2.3. By Feedstock
  - 12.2.4. By Application

- 12.2.4.1. By Chemical Derivatives
- 12.2.5. By Consumption
- 12.2.6. By Country
- 12.3. South America: Country Analysis
  - 12.3.1. Argentina Syngas & Derivatives Market Outlook
    - 12.3.1.1. Market Size & Forecast
      - 12.3.1.1.1. By Value & Volume
    - 12.3.1.2. Market Share & Forecast
      - 12.3.1.2.1. By Production Technology
      - 12.3.1.2.2. By Application
  - 12.3.2. Brazil Syngas & Derivatives Market Outlook
    - 12.3.2.1. Market Size & Forecast
      - 12.3.2.1.1. By Value & Volume
    - 12.3.2.2. Market Share & Forecast
      - 12.3.2.2.1. By Production Technology
      - 12.3.2.2.2. By Application
  - 12.3.3. Colombia Syngas & Derivatives Market Outlook
    - 12.3.3.1. Market Size & Forecast
      - 12.3.3.1.1. By Value & Volume
    - 12.3.3.2. Market Share & Forecast
      - 12.3.3.2.1. By Production Technology
      - 12.3.3.2.2. By Application

## **13. MARKET DYNAMICS**

- 13.1. Drivers
- 13.2. Challenges

## **14. MARKET TRENDS & DEVELOPMENTS**

## **15. COMPETITIVE LANDSCAPE**

- 15.1. Linde PLC
- 15.2. Air Liquide S.A.
- 15.3. Air Products and Chemicals, Inc
- 15.4. Yingde Gases Group Company
- 15.5. Sasol Limited
- 15.6. Saudi Aramco Oil Company
- 15.7. TechnipFMC PLC

15.8. Messe Group GmbH

15.9. Haldor Topsoe A/S

15.10 Nippon Sanso Holdings Corporation

## **16. STRATEGIC RECOMMENDATIONS**

## **17. ABOUT US & DISCLAIMER**

## List Of Figures

### LIST OF FIGURES

Figure 1: Global Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 2: Global Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 3: Global Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 4: Global Syngas & Derivatives Market Share, By Gasifier Type, By Volume, 2017-2027F

Figure 5: Global Syngas & Derivatives Market Share, By Feedstock, By Volume, 2017-2027F

Figure 6: Global Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 7: Global Syngas & Derivatives Market Share, By Application, By Chemical Derivatives, By Volume, 2017-2027F

Figure 8: Global Syngas & Derivatives Market Share, By Consumption, By Volume, 2017-2027F

Figure 9: Global Syngas & Derivatives Market Share, By Region, By Volume, 2017-2027F

Figure 10: Global Syngas & Derivatives Market Map, By Production Technology, Market Size (MM Nm<sup>3</sup>/h) & Growth Rate (%), 2021

Figure 11: Global Syngas & Derivatives Market Map, By Gasifier Type, Market Size (MM Nm<sup>3</sup>/h) & Growth Rate (%), 2021

Figure 12: Global Syngas & Derivatives Market Map, By Feedstock, Market Size (MM Nm<sup>3</sup>/h) & Growth Rate (%), 2021

Figure 13: Global Syngas & Derivatives Market Map, By Application, Market Size (MM Nm<sup>3</sup>/h) & Growth Rate (%), 2021

Figure 14: Global Syngas & Derivatives Market Map, By Chemical Derivatives, Market Size (MM Nm<sup>3</sup>/h) & Growth Rate (%), 2021

Figure 15: Global Syngas & Derivatives Market Map, By Consumption, Market Size (MM Nm<sup>3</sup>/h) & Growth Rate (%), 2021

Figure 16: Global Syngas & Derivatives Market Map, By Region, Market Size (MM Nm<sup>3</sup>/h) & Growth Rate (%), 2021

Figure 17: Asia Pacific Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 18: Asia Pacific Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 19: Asia Pacific Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 20: Asia Pacific Syngas & Derivatives Market Share, By Gasifier Type, By Volume, 2017-2027F

Figure 21: Asia Pacific Syngas & Derivatives Market Share, By Feedstock, By Volume, 2017-2027F

Figure 22: Asia Pacific Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 23: Asia Pacific Syngas & Derivatives Market Share, By Application, By Chemical Derivatives, By Volume, 2017-2027F

Figure 24: Asia Pacific Syngas & Derivatives Market Share, By Consumption, By Volume, 2017-2027F

Figure 25: Asia Pacific Syngas & Derivatives Market Share, By Country, By Volume, 2017-2027F

Figure 26: China Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 27: China Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 28: China Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 29: China Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 30: India Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 31: India Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 32: India Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 33: India Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 34: Australia Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 35: Australia Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 36: Australia Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 37: Australia Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 38: South Korea Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F



Figure 39: South Korea Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 40: South Korea Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 41: South Korea Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 42: Japan Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 43: Japan Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 44: Japan Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 45: Japan Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 46: Middle East & Africa Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 47: Middle East & Africa Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 48: Middle East & Africa Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 49: Middle East & Africa Syngas & Derivatives Market Share, By Gasifier Type, By Volume, 2017-2027F

Figure 50: Middle East & Africa Syngas & Derivatives Market Share, By Feedstock, By Volume, 2017-2027F

Figure 51: Middle East & Africa Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 52: Middle East & Africa Syngas & Derivatives Market Share, By Application, By Chemical Derivatives, By Volume, 2017-2027F

Figure 53: Middle East & Africa Syngas & Derivatives Market Share, By Consumption, By Volume, 2017-2027F

Figure 54: Middle East & Africa Syngas & Derivatives Market Share, By Country, By Volume, 2017-2027F

Figure 55: Saudi Arabia Syngas & Derivatives Market Size, By Volume (USD Billion), 2017-2027F

Figure 56: Saudi Arabia Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 57: Saudi Arabia Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 58: Saudi Arabia Syngas & Derivatives Market Share, By Application, By

Volume, 2017-2027F

Figure 59: South Africa Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 60: South Africa Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 61: South Africa Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 62: South Africa Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 63: UAE Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 64: UAE Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 65: UAE Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 66: UAE Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 67: Europe Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 68: Europe Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 69: Europe Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 70: Europe Syngas & Derivatives Market Share, By Gasifier Type, By Volume, 2017-2027F

Figure 71: Europe Syngas & Derivatives Market Share, By Feedstock, By Volume, 2017-2027F

Figure 72: Europe Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 73: Europe Syngas & Derivatives Market Share, By Application, By Chemical Derivatives, By Volume, 2017-2027F

Figure 74: Europe Syngas & Derivatives Market Share, By Consumption, By Volume, 2017-2027F

Figure 75: Europe Syngas & Derivatives Market Share, By Country, By Volume, 2017-2027F

Figure 76: Russia Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 77: Russia Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 78: Russia Syngas & Derivatives Market Share, By Production Technology, By

Volume, 2017-2027F

Figure 79: Russia Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 80: Germany Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 81: Germany Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 82: Germany Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 83: Germany Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 84: United Kingdom Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 85: United Kingdom Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 86: United Kingdom Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 87: United Kingdom Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 88: France Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 89: France Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 90: France Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 91: France Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 92: Italy Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 93: Italy Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 94: Italy Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 95: Italy Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 96: North America Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 97: North America Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 98: North America Syngas & Derivatives Market Share, By Production

Technology, By Volume, 2017-2027F

Figure 99: North America Syngas & Derivatives Market Share, By Gasifier Type, By Volume, 2017-2027F

Figure 100: North America Syngas & Derivatives Market Share, By Feedstock, By Volume, 2017-2027F

Figure 101: North America Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 102: North America Syngas & Derivatives Market Share, By Application, By Chemical Derivatives, By Volume, 2017-2027F

Figure 103: North America Syngas & Derivatives Market Share, By Consumption, By Volume, 2017-2027F

Figure 104: North America Syngas & Derivatives Market Share, By Country, By Volume, 2017-2027F

Figure 105: United States Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 106: United States Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 107: United States Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 108: United States Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 109: Canada Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 110: Canada Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 111: Canada Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 112: Canada Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 113: Mexico Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 114: Mexico Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 115: Mexico Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 116: Mexico Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 117: South America Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 118: South America Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 119: South America Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 120: South America Syngas & Derivatives Market Share, By Gasifier Type, By Volume, 2017-2027F

Figure 121: South America Syngas & Derivatives Market Share, By Feedstock, By Volume, 2017-2027F

Figure 122: South America Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 123: South America Syngas & Derivatives Market Share, By Application, By Chemical Derivatives, By Volume, 2017-2027F

Figure 124: South America Syngas & Derivatives Market Share, By Consumption, By Volume, 2017-2027F

Figure 125: South America Syngas & Derivatives Market Share, By Country, By Volume, 2017-2027F

Figure 126: Argentina Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 127: Argentina Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 128: Argentina Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 129: Argentina Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 130: Brazil Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 131: Brazil Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 132: Brazil Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 133: Brazil Syngas & Derivatives Market Share, By Application, By Volume, 2017-2027F

Figure 134: Colombia Syngas & Derivatives Market Size, By Value (USD Billion), 2017-2027F

Figure 135: Colombia Syngas & Derivatives Market Size, By Volume (MM Nm<sup>3</sup>/h), 2017-2027F

Figure 136: Colombia Syngas & Derivatives Market Share, By Production Technology, By Volume, 2017-2027F

Figure 137: Colombia Syngas & Derivatives Market Share, By Application, By Volume,

2017-2027F

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