

Syngas Market by Gasifier (Moving Bed Gasifier, Fluidized Bed Gasifier, Entrained Flow Gasifier, and Others), Technology (Steam Reforming, Partial Oxidation, Auto-Thermal Reforming, Combined or Two-step Reforming, and Biomass Gasification), Feedstock (Natural Gas, Coal, Biomass/Waste, and Others), and Application (Power Generation, Chemicals, and Others): Global Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

The global syngas market was valued at \$43.6 billion in 2019, and is projected to reach \$66.5 billion by 2027, growing at a CAGR of 6.1% from 2020 to 2027.

Syngas, or synthesis gas, is a carbon monoxide, hydrogen, carbon dioxide, and trace gas natural gas mixture. It is formed when it is exposed to heat, air, and water in a closed space by gasifying carbon-containing fuels such as coal. It can be quickly burned and used as a fuel source, as syngas has more than half of the energy density of natural gas. It is carbon-rich and is commonly used for industrial applications to produce synthetic natural gas (SNG), oxo-chemicals, dimethyl ether, hydrogen, and ammonia or methanol. Moreover, it is used to produce a variety of fertilizers, solvents, fuels, and synthetic materials.

One of the key factors driving the growth of the global syngas market is rise in demand for synthetic gas from the chemical industry. Syngas is further used to manufacture SNG that is used in the rail, marine, and road transport industries in the form of liquified natural gas (LNG) and compressed natural gas (CNG). Syngas has gained significant

traction in the global market, owing to its advantages such as low energy costs, improved stability, and its use to fuel gas engines for power supply. In addition, underground coal gasification (UCG) enables the completion of the process of in-situ gasification that transforms coal into syngas. This boosts the demand for syngas, as it eliminates the need to transport the feedstock to the gasification plants, resulting in substantial cost advantages. In addition, increase in environmental awareness and enforcement of stringent government regulations on the use of renewable fuels significantly propel the development of the market. Furthermore, syngas is critical in reducing atmospheric waste emissions in landfills and greenhouse gases, thereby augmenting its demand globally. However, high capital spending and financing hinder the growth of the global market.

The global syngas market is segmented into gasifier, technology, feedstock, application, and region. Depending on gasifier, the market is categorized into moving bed gasifier, fluidized bed gasifier, entrained flow gasifier, and others. On the basis of technology, it is segregated into steam reforming, partial oxidation, auto-thermal reforming, combined or two-step reforming, and biomass gasification. By feedstock, it is fragmented into natural gas, coal, biomass/ waste, and others. The applications covered in the study include power generation, chemicals, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Some of the key players operating in the global syngas market are Air Liquide, Air Products and Chemicals Inc., BASF SE, John Wood Group, Royal Dutch Shell, Sasol Limited, Siemens, Syngas Energy Holdings, SynGas Technology LLC, and The Linde Group.

KEY BENEFITS FOR STAKEHOLDERS

The report provides an extensive qualitative and quantitative analysis of the current trends and future estimations of the global syngas market from 2020 to 2027 to determine the prevailing opportunities

A comprehensive analysis of the factors that drive and restrict the growth of the market is provided

Estimations and forecast are based on factors impacting the market growth, in terms of both value and volume

Profiles of leading players operating in the market are provided to understand the global competitive scenario

The report provides extensive qualitative insights on the significant segments and regions exhibiting favorable market growth

IMPACT OF COVID-19 ON THE GLOBAL SYNGAS MARKET

COVID-19 has spread to almost 213 countries around the globe with the World Health Organization declaring it a public health emergency on March 11, 2020.

Some of the major economies suffering the COVID-19 crises include Germany, France, Italy, Spain, the UK, and Norway.

Syngas is primarily used in power generation, chemicals, and liquid fuels, and as an impact of national lockdown, these sectors were experiencing a slight decline in growth rate.

In many countries, the economy has dropped due to the halt of several industries, especially transport and supply chain. Demand for the product has been hindered as there is no development due to the enforcement of lockdown.

The demand–supply gap, disruptions in raw material procurement, and price volatility are expected to hamper the growth of the chemical industry during the COVID-19 pandemic.

KEY MARKET SEGMENTS

By Gasifier

Moving Bed Gasifier

Fluidized Bed Gasifier

Entrained Flow Gasifier

Others

By Technology

Steam Reforming

Partial Oxidation

Auto-thermal Reforming

Combined or Two-step Reforming

Biomass Gasification

By Feedstock

Natural Gas

Coal

Biomass/Waste

Others

By Application

Power Generation

Chemicals

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

KEY MARKET PLAYERS

Air Liquide

Air Products and Chemicals Inc.

BASF SE

John Wood Group

Royal Dutch Shell

Sasol Limited

Siemens

Syngas Energy Holdings

SynGas Technology LLC

The Linde Group

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