

# **Global Gasification Market Size study & Forecast, by Type (Fixed Bed, Fluidized Bed, Entrained Flow), by Feedstock (Coal, Petroleum, Gas, Petcoke, Biomass, Waste), by Feed Type (Dry, Slurry), by Gasifier Medium (Air, Oxygen, Vapor), by Application (Electricity, Chemicals, Fertilizers, Liquid Fuels, Synthetic Natural Gas, Hydrogen) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Gasification Market is valued approximately at USD 472.2 billion in 2022 and is anticipated to grow with a growth rate of more than 5.7% over the forecast period 2023-2030. Gasification is the thermochemical conversion of carbonaceous raw materials into hydrogen and carbon monoxide gas, with minimal carbon dioxide and water. The resulting syngas has diverse uses, including fuel for industries and power generation, as well as a chemical feedstock for making fuels and chemicals. The gasification market is driven by factors such as global increased demand for power and the expansion of the coal industry. Also, growing environmental awareness and sustainability concerns have contributed to the interest in gasification as a clean energy alternative. Additionally, there is a rising demand for gasification in the municipal sector for waste disposal and recycling purposes. Gasifiers provide a flexible and efficient solution for thermal applications by replacing fossil fuels with syngas in existing gas-fueled machinery.

Moreover, the growing chemical industry plays a crucial role in supporting the growth of the gasification market. Gasification is a process that converts carbonaceous materials, such as coal, biomass, or even waste, into synthesis gas (syngas), which is primarily

composed of hydrogen and carbon monoxide. This syngas can be further processed to produce various valuable products, including chemicals. Thus, the growing chemical industry is anticipated to support the market growth. According to Statista, in 2020 the global chemical industry was valued USD 3817.6 billion and the industry increased significant and reached USD 4,732.1 billion in 2021. As a result, the growing chemical industry is anticipated to create the lucrative demand for the market. Additionally, increasing application in waste management and demand for cleaner and more effective energy generation technology in commercial and residential applications provides lucrative opportunity to the market for growth. However, the high installation cost stifling market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Gasification Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 with largest market share owing to surge in energy demand, with a particular emphasis on cleaner and source that is more efficient. This region confronts significant environmental issues resulting from population growth, urbanization, and industrialization. North America is expected to fastest growing significantly during the forecast period, owing to the increasing demand for cleaner and sustainable energy sources. The region's abundant coal reserves can be utilized as a feedstock for gasification, allowing for value extraction while minimizing environmental impact. Additionally, there is a strong emphasis on reducing carbon emissions and meeting sustainability goals in North America.

Major market player included in this report are:

Shell Plc.

Synthesis Energy Systems Inc.

Chicago Bridge & Iron Company

ThyssenKrupp AG.

Siemens AG

Mitsubishi Heavy Industries

KBR Inc.

Air Liquide S.A

General Electric Company

SEDIN Engineering Company Limited

Recent Developments in the Market:

In August 2021, Mitsubishi Power collaborated on a study to establish a commercial-scale supply chain for sustainable aviation fuel. The focus was on utilizing wood biomass gasification integrated with FT synthesis technology.

In April 2020, Larsen & Toubro received an order from Wuhan Engineering Ltd in China

for coal gasification equipment. The unit's purpose was to utilize coal with high ash content and pet coke as feedstock to produce Urea.

Global Gasification Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Feedstock, Feed Type, Gasifier Medium, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Fixed Bed

Fluidized Bed

Entrained Flow

By Feedstock:

Coal

Petroleum

Gas

Petcoke

Biomass

Waste

By Feed Type:

Dry

Slurry

By Gasifier Medium:

Air

Oxygen

Vapor

By Application:

Electricity

Chemicals

Fertilizers

Liquid Fuels

Synthetic Natural Gas

Hydrogen

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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