

Syngas Market Expands as Industries Seek Sustainable Alternatives for Fuel & Chemicals

Syngas, a mix of CO, CO₂, and H₂, along with methane and nitrogen, is key in producing fertilizers, fuels, solvents, and synthetics, driving global demand.

WILMINGTON, DE, UNITED STATES, March 19, 2025 /EINPresswire.com/ -- The global [syngas market](#) is expected to grow significantly, reaching a projected value of \$66.5 billion by 2027, with a CAGR of 6.1% during the forecast period. Syngas, which consists of hydrogen and carbon dioxide, is a natural gas fusion. It is an adaptable intermediate used in methanol, ammonia, and SNG manufacturing. Syngas is created by a reaction between steam and oxygen from several hydrocarbon feedstocks.

Increase in environmental issues has been the key driver of the syngas market. This is attributed to the syngas is widely used as clean and renewable energy to replace conventional sources of energy. In addition, owing to the outbreak of COVID-19, rise in demand for chemical intermediaries in the production of hygiene and sanitation and pharmaceutical products is expected to drive the need for syngas in the chemical industry.

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Key Growth Drivers of the Syngas Market

The Syngas Market is expanding rapidly due to its diverse applications across industries. Here are the key factors fueling its growth:

1▯▯ Rising Demand for Clean Energy & Fuels

- Syngas is a key feedstock for synthetic fuels, hydrogen production, and electricity generation.
- Growing focus on decarbonization and clean energy solutions is driving syngas adoption.

2▯▯ Expanding Fertilizer Industry

- Syngas is crucial for ammonia and methanol production, essential in fertilizer manufacturing.
- Increasing global food demand boosts fertilizer consumption, indirectly driving syngas demand.

3▯▯ Industrial & Chemical Applications

- Used in producing methanol, synthetic natural gas (SNG), and Fischer-Tropsch liquids.
- Plays a key role in chemical synthesis, solvents, and synthetic material production.

4▯▯ Waste-to-Energy & Biomass Gasification

- Growing investments in waste-to-energy (WtE) projects and biomass gasification enhance syngas production.
- Syngas helps in converting waste and low-value feedstocks into high-value energy products.

5▯▯ Advancements in Gasification Technology

- New gasification processes enhance efficiency, reduce emissions, and lower costs.
- Coal-to-syngas and biomass-to-syngas technologies are improving production capabilities.

6▯▯ Government Policies & Sustainability Initiatives

• Carbon reduction goals and support for alternative fuels boost syngas investments.

- Incentives for hydrogen production and renewable energy integration are accelerating market growth.

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The steam reforming segment held the major share in in 2019. Steam reforming is the most utilized and cost-effective technology for the production of syngas. Coal dominated the feedstock segment by accounting for the largest share of 69.8%. The processing of syngas includes coal, an abundantly available raw material. Coal gasification is flexible and is the cleanest way to turn coal into hydrogen, power, and other useful items.

Depending on application, the chemical industry dominated the market, owing to increase in demand for syngas from the chemical industry. As the demand for gaseous fuels rises, the market is expected to expand further.

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Players analyzed and profiled in the global syngas market 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 Findings Of The Study

- Based on gasifier, the fluidized bed gasifier is likely to witness the growth rate of 40.1%, in terms of revenue, during the forecast period.
- On the basis of technology, the steam reforming segment emerged as the global leader with more than 39.6% share in 2019.
- By feedstock, the coal segment is anticipated to witness moderate growth rate of 69.8%, in terms of revenue, during the forecast period.
- Depending on application, the chemicals segment dominated the global syngas market with around 61.3% global market share in 2019.
- Countries such as China, India, and Indonesia are emerging as an investment-centric hubs due

to wide scope in the manufacturing sector.

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