

Synthetic Fuels Market by Fuel Type (Methanol to liquid (MTL), Power to liquid (PTL), Gas to liquid (GTL)), Application (Gasoline, Diesel, Kerosene), End Use (Transportation, Industrial, Chemical), and Region - Global Forecast to 2030

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Abstracts

The synthetic fuels market is projected to grow from USD 48.4 billion in 2023 to USD 70.1 billion by 2030, at a CAGR of 5.4%. The market for synthetic fuels is witnessing growth across different regions. Asia Pacific is a prominent market worldwide owing to increasing investment by private players boosting R&D in the development of different applications of synthetic fuel.

“By fuel type, gasoline to liquid segment accounted for the second-largest share in synthetic fuels market in 2022.”

The gasoline to liquid segment held the second-largest share in 2022. It is a synthetic alternative to diesel and gasoline, made by converting natural gas into liquid form suitable for conventional engines. This conversion involves steam methane reforming (SMR) or autothermal reforming (ATR) to produce syngas, followed by Fischer-Tropsch (FT) synthesis using catalysts. GTL fuel is versatile, finding applications in transportation, power generation, and heating, offering a cleaner energy option.

“By end use, the chemical & others segment accounted for the second-largest share in synthetic fuels market in 2022.”

The chemical & others end use held the second-largest share in 2022. Synthetic fuels has multiple applications in the chemical sector, reducing greenhouse gas emissions and fossil fuel dependence. It acts as a carbon source for chemicals like syngas, used

in methanol, ammonia, and synthetic hydrocarbon production, while also supplying hydrogen for various chemical processes. Additionally, synthetic fuels aligns with green chemistry principles, offering a renewable, low-carbon alternative in chemical processes. This versatility makes it a vital asset in achieving sustainability goals within the chemical industry. These factors further propel the demand for chemical & others segment in synthetic fuels market.

“By application, the gasoline segment accounted for the second-largest share in synthetic fuels in 2022.”

Gasoline plays a significant role in within the synthetic fuels market. Synthetic gasoline, or syn-gasoline, mirroring traditional gasoline, is generated via Fischer-Tropsch synthesis from carbon-containing inputs such as natural gas, coal, or biomass. It serves as a cleaner energy transition option, compatible with existing infrastructure and engines. This technology curbs fossil fuel dependence and emissions, with renewable sources and carbon capture enhancing its eco-friendliness. Ongoing research and innovation are pivotal in advancing the synthetic fuels market, propelling its growth and sustainability.

“The synthetic fuels market in rest of world (South America and Middle East & Africa) accounted for the second-largest share in 2022.”

Rest of world (South America and Middle East & Africa) was the second-largest consumer of synthetic fuels worldwide in 2022. South America, including Brazil and Chile, presents a burgeoning synthetic fuels market due to its robust economy and status as a manufacturing and foreign investment hub, driven by cost-effective skilled labor and increased investments in transportation and industry. Meanwhile, in the Middle East & Africa (MEA), abundant natural gas, coal, and biomass resources provide a strong foundation for synthetic fuels production. MEA's growing focus on hydrogen as a feedstock, particularly through green hydrogen initiatives, supports synthetic hydrocarbon production, aligning with Saudi Arabia's ambition to become a top hydrogen supplier, contributing to the global growth of the synthetic fuels market.

Profile break-up of primary participants for the report:

By Company Type: Tier 1 – 65%, Tier 2 – 20%, and Tier 3 – 15%

By Designation: C-level Executives – 25%, Directors – 30%, and Others – 45%

By Region: North America – 30%, Europe –20%, Asia Pacific – 40%, Middle East & Africa-7%, South America –3%

The synthetic fuels report is dominated by players, such as Shell (UK), SASOL (South Africa), CHN Energy Investment Group Co., Ltd. (China), Chevron Renewable Energy Group (US), ExxonMobil Corporation (US), TotalEnergies (France), Neste (Finland), Petro SA (South Africa), Linde Engineering (Ireland), Synthesis Energy Systems, Inc. (US), Dakota Gasification Company (US), TOPSOE (Denmark), MaireTecnimont S.p.A. (Italy), Sunfire GmbH (Germany), RWE (Germany), QatarEnergy (Qatar), Inner Mongolia Yital Coal Co., Ltd. (China) and others.

Research Coverage:

The report defines, segments, and projects the size of the synthetic fuels market based on fuel type, end use, application, and region. It strategically profiles the key players and comprehensively analyzes their market share and core competencies. It also tracks and analyzes competitive developments, such as joint ventures, collaborations, partnerships, acquisitions, agreements, investments, and expansions undertaken by them in the market.

Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants in the market by providing them with the closest approximations of revenue numbers of the synthetic fuels market and its segments. This report is also expected to help stakeholders obtain an improved understanding of the competitive landscape of the market, gain insights to improve the position of their businesses and make suitable go-to-market strategies. It also enables stakeholders to understand the pulse of the market and provide them information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (investment from private players boosting research and development, diversification in the primary energy mix), restraints (high cost of synthetic fuels, a growing market for electric vehicles and alternative fuel), opportunities (high potential of different applications of synthetic fuels, introduction of carbon pricing mechanism and tax credits for synthetic fuels production), and challenges (difficulty in achieving economies of scale in

synthetic fuels production) influencing the growth of the synthetic fuels market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities in the synthetic fuels market.

Market Development: Comprehensive information about lucrative markets – the report analyses the synthetic fuels market across varied regions.

Market Diversification: Exhaustive information about new products, various fuel types, untapped geographies, recent developments, and investments in the synthetic fuels market.

Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players such as Shell (UK), SASOL (South Africa), CHN Energy Investment Group Co., Ltd. (China), Chevron Renewable Energy Group (US) and ExxonMobil Corporation (US), among others in the synthetic fuels market.

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