

Middle East & Africa Dimethyl Ether Market Forecast to 2030 – Regional Analysis – by Application (Aerosol Propellants, LPG Blending, Transportation Fuel, Power Generation Fuel, Chemical Feedstock, and Others)

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Abstracts

The Middle East & Africa dimethyl ether market was valued at US\$ 428.23 million in 2022 and is expected to reach US\$ 782.31 million by 2030; it is estimated to grow at a CAGR of 7.8% from 2022 to 2030 .

Rising Adoption of Renewable Dimethyl Ether Fuels the Middle East & Africa Dimethyl Ether Market

The rising adoption of renewable dimethyl ether (rDME) is positively influencing the growth of the Middle East & Africa dimethyl ether market. As global concerns regarding climate change and environmental sustainability increase, industries and consumers seek cleaner and more sustainable energy sources. Renewable dimethyl ether, produced from renewable sources and waste feedstocks, aligns well with these aspirations and offers a compelling solution to reduce greenhouse gas emissions and dependence on fossil fuels. Renewable dimethyl ether has significant potential for lowering carbon emissions than conventional fossil fuels. rDME is produced from feedstocks such as biomass, agricultural residues, and waste materials, which are considered carbon-neutral or have a lower carbon footprint. Unlike traditional DME derived from fossil fuels, rDME cannot contribute to the net increase of carbon dioxide in the atmosphere when consumed as fuel. The transportation sector is a notable beneficiary of the rising adoption of rDME. Diesel engines can use rDME as a drop-in replacement for diesel fuel, requiring no modifications to existing infrastructure or engines. This ease of integration and the potential for immediate emission reductions

make rDME an attractive option for reducing the carbon footprint of heavy-duty vehicles, trucks, and buses. Countries with ambitious emission reduction targets are particularly motivated to adopt rDME to achieve their sustainability goals.

rDME combustion generates fewer pollutants and particulate matter than conventional diesel, improving air quality in urban areas. As cities strive to combat air pollution and enhance public health, rDME is a valuable alternative fuel. The global push for energy security and reduced reliance on fossil fuels also drives the adoption of rDME. As rDME can be produced locally from diverse feedstocks, it offers a degree of energy independence and resilience against supply disruption that can occur with traditional fuels subject to geopolitical factors. Government strategies to promote renewable energy and reduce emissions further accelerate the adoption of rDME. Financial incentives, grants, and mandates for incorporating renewable fuels into transportation fleets encourage industries to invest in rDME production and utilization. In addition, manufacturers are also incorporating different strategies with the rising adoption of renewable dimethyl ether. Thus, all the aforementioned factors are expected to drive the Middle East & Africa dimethyl ether market growth during the forecast period.

Middle East & Africa Dimethyl Ether Market Overview

Several economies in the Middle East & Africa are reducing dependence on fossil fuels by diversifying their energy sources. As per the International Trade Administration, in 2022, Saudi Arabia planned to expand the capacity of its power sector (electricity generation, transmission, distribution, and smart grid) due to rising demand from residential and commercial consumers. Developed economies in the Middle East & Africa, namely Saudi Arabia aimed to replace fossil fuel used to produce 42% of the country's 110-gigawatt daily electricity needs in 2022, with a combination of 50% natural gas and 50% renewable energy by 2030. The government focus of replacement of traditional fuel sources with alternative sources can offer potential opportunities in the DME market. The Saudi Arabian Ministry of Energy's spending on power and renewable energy projects is anticipated to reach US\$ 293 billion by 2030. In 2021, the government of Saudi Arabia announced the country's plan to spend US\$ 38 billion on energy distribution by 2030. Due to ease of storage, transportation, and clean combustion characteristics, DME is a viable option for power generation in remote or off-grid locations. The utilization of emerging coal technologies, such as DME production, is gaining popularity in South Africa for utilization as alternative fuel. Therefore, rising renewable source-fueled power generation in the region is expected to boost the demand for DME.

Middle East & Africa Dimethyl Ether Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Dimethyl Ether Market Segmentation

The Middle East & Africa dimethyl ether market is segmented based on application and country.

Based on application, the Middle East & Africa dimethyl ether market is segmented into aerosol propellants, LPG blending, transportation fuel, power generation fuel, chemical feedstock, and others. The LPG blending segment held the largest market share in 2022.

Based on country, the Middle East & Africa dimethyl ether market is segmented into Saudi Arabia, South Africa, the UAE, and the Rest of Middle East & Africa. The Rest of Middle East & Africa dominated the Middle East & Africa dimethyl ether market share in 2022.

Nouryon Chemicals Holding BV, Shell Plc, Mitsubishi Gas Chemical Co Inc, The Chemours Co, Grillo-Werke AG, and Merck KGaA are some of the leading players operating in the Middle East & Africa dimethyl ether market.

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