

Asia Pacific 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 Asia Pacific dimethyl ether market was valued at US\$ 999.73 million in 2022 and is expected to reach US\$ 2,288.16 million by 2030; it is estimated to grow at a CAGR of 10.9% from 2022 to 2030 .

Growing Demand for Clean Transportation Fuel Fueling the Asia Pacific Dimethyl Ether Market

The increasing demand for clean and sustainable transportation fuels presents a significant opportunity for the dimethyl ether market. As governments, industries, and consumers worldwide increasingly prioritize environmental sustainability and seek alternatives to conventional fossil fuels, DME emerges as a promising candidate due to its unique properties and compatibility with clean transportation needs. One of the key drivers behind the demand for clean transportation fuels is the urgent requirement to lessen greenhouse gas emissions and air pollutants. Conventional diesel fuels contribute to air pollution and are a considerable source of carbon dioxide emissions. DME, on the other hand, offers several environmental advantages. It produces lower particulate matter emissions, sulfur dioxide, and nitrogen oxides than traditional diesel. Moreover, DME combustion generates fewer greenhouse gases, contributing to cleaner air quality and a more sustainable future. Governments are implementing stricter regulations to curb vehicle emissions, providing a favorable environment for the adoption of cleaner fuels. As DME can be easily integrated into existing diesel engines with minimal modifications, it provides an attractive solution for industries seeking

immediate emissions reduction with extensive infrastructural changes. Furthermore, the unique combustion characteristics of DME, such as its high cetane number and lack of soot formation, make it an excellent fuel for compression ignition engines. This positions DME as a viable alternative to diesel in heavy-duty transportation applications, including trucks, buses, and even marine vessels. The compatibility of DME with existing engine technology reduces the transition barriers for industries looking to switch to cleaner fuels. The demand for clean transportation fuels is rising in the Asia Pacific region strongly committed to sustainable transportation. DME's advantages in terms of lower emissions, reduced reliance on petroleum-derived fuels, and compatibility with current infrastructure align with these objectives. As a result, the Asia Pacific dimethyl ether market is poised to capitalize on this demand growth, positioning itself as a cleaner, more sustainable transportation fuel. By addressing the environmental challenges associated with traditional fuels, DME can play a pivotal role in shaping a greener and more sustainable transportation sector globally.

Asia Pacific Dimethyl Ether Market Overview

DME has gained popularity as a transportation fuel, substituting traditional fuel in several countries in Asia Pacific, particularly China. China's policies and regulations have a significant global impact, as it is a global energy consumer and carbon emitter. China's emissions reduction pace will be crucial to limit global warming to 1.5°C globally. In 2020, the Chinese government updated the China IV regulations and strengthened the nonroad tailpipe emissions standards. The prevalence of the transportation and chemicals sector in Asia Pacific has prompted the DME producers to expand regional production facilities. In 2020, Pertamina planned to invest US\$ 2.5 billion in the development of four DME production facilities in Indonesia. The expansion of DME production is a result of increasing LPG consumption in Indonesia over the past five years and a reduction of the country's LPG dependency. The rising utilization of palm residues to produce DME can help Indonesia achieve its General National Energy Plan target of 23% renewable energy by 2025. China, India, and Japan are the largest consumers of DME in the region, owing to the increasing utilization of DME in LPG blending, chemical feedstock, and aerosol propellant. Further, the rising utilization of DME for LPG substitution and feedstock in the chemical industry is anticipated to boost the Asia Pacific dimethyl ether market growth.

Asia Pacific Dimethyl Ether Market Revenue and Forecast to 2030 (US\$ Million)

Asia Pacific Dimethyl Ether Market Segmentation

The Asia Pacific dimethyl ether market is segmented based on application and country.

Based on application, the Asia Pacific 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 Asia Pacific dimethyl ether market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific dimethyl ether market share in 2022.

Nouryon Chemicals Holding BV, Shell Plc, Mitsubishi Gas Chemical Co Inc, The Chemours Co, Grillo-Werke AG, Jiangsu July Chemical Co Ltd, Sichuan Lutianhua Co Ltd, and Merck KGaA are some of the leading players operating in the Asia Pacific dimethyl ether market.

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