

Autogas Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Compressed Natural Gas, Liquefied Petroleum Gas, Liquefied Natural Gas, Others), By Application (Passenger Vehicles, Commercial Vehicles, Two-Wheelers, Others), By Region & Competition, 2021-2031F

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Abstracts

The global Autogas market is projected to expand from USD 55.39 billion in 2025 to USD 74.31 billion by 2031, demonstrating a compound annual growth rate (CAGR) of 5.02%. Autogas, which is Liquefied Petroleum Gas (LPG) used as a fuel for automotive vehicles, serves as a high-octane, lower-emission alternative to traditional gasoline and diesel. The market's growth is primarily attributed to its economic advantages, particularly the significantly reduced operating costs for high-mileage commercial fleets, and its widespread accessibility through an established global distribution infrastructure. Furthermore, the relative ease of converting internal combustion engines to compatible bi-fuel systems continues to stimulate adoption in emerging economies seeking cost-effective energy solutions. As of 2024, the global Autogas fleet exceeded 27 million vehicles, according to the World Liquid Gas Association.

Market Driver

Cost competitiveness against conventional fuels acts as the primary driver for the global Autogas market, especially in price-sensitive regions where managing operating expenses is crucial for fleet operators and private vehicle owners. The significant price difference between LPG and traditional gasoline or diesel motivates the transition to bi-fuel systems, offering an immediate return on investment compared to the higher

upfront costs of electric vehicles. This economic benefit continues to generate substantial market growth, even in developed markets; for instance, the Czech Republic saw a 31% year-on-year increase in newly registered LPG-powered vehicles in 2024, as per Czech Trade Offices. This demand for affordable mobility directly boosts the financial performance of key technology providers, with Westport Fuel Systems reporting a revenue increase to \$19.3 million for Q3 2025, driven by higher fuel system volumes. Simultaneously, the integration of Bio-LPG and other renewable alternatives is crucial for securing the sector's long-term viability amidst stringent environmental regulations. While zero-emission mandates pose a threat to fossil fuels, the development of renewable liquid gases enables the industry to leverage existing distribution infrastructure while substantially lowering carbon intensity. This 'drop-in' capability ensures Autogas remains a relevant part of decarbonization strategies, particularly for commercial segments that are difficult to electrify and require high energy density. The industry is actively scaling this capacity to meet future regulatory targets, with the European region alone possessing the production potential to generate up to 27.4 million tonnes of renewable liquid gas annually by 2050, as highlighted by Liquid Gas Europe.

Market Challenge

The accelerating global shift toward vehicle electrification and aggressive decarbonization policies presents a primary impediment to the growth of the Global Autogas Market. As governments increasingly prioritize zero-emission vehicle mandates, regulatory frameworks and financial subsidies are being exclusively redirected toward battery electric and hydrogen technologies. This legislative bias effectively marginalizes transitional fuels, signaling to investors and fleet operators that Autogas may lack long-term viability in a net-zero future. Consequently, this policy trajectory creates substantial market uncertainty, which directly discourages the essential capital expenditure required to maintain and expand the sector. This reduction in investment support critically hampers the development of necessary distribution infrastructure. Without the assurance of sustained regulatory backing, energy companies are hesitant to expand refueling networks, leading to a stagnation in accessibility that limits further consumer adoption. This constraint is evident in recent infrastructure metrics; the World Liquid Gas Association reported approximately 82,000 refueling stations globally in 2025, a figure that reflects a plateau in infrastructure growth, demonstrating how the intense political focus on electrification is stifling the physical expansion necessary for the market's continued penetration.

Market Trends

The expansion of OEM factory-fitted bi-fuel vehicle portfolios is significantly reshaping market accessibility, as major automotive manufacturers integrate liquefied petroleum gas systems directly onto assembly lines. This strategy allows them to comply with strict emission standards while simultaneously offering affordable mobility solutions. Unlike traditional aftermarket conversions, these factory-produced vehicles come with full warranty coverage and optimized engine performance, thereby substantially boosting consumer confidence and adoption rates, particularly in price-sensitive European markets. This approach has proven highly effective for volume leaders; for instance, LPG-powered models accounted for 41% of Dacia's total vehicle sales in the Czech Republic for 2024, according to CzechTrade Offices. Simultaneously, the advancement of Direct Liquid Injection (DLI) engine technology is transforming the sector by enabling Autogas to be utilized in modern, high-efficiency downsized engines without compromising power or durability. This technical evolution addresses the compatibility issues previously associated with older vapor-phase systems and direct-injection gasoline engines, thus sustaining the fuel's relevance for next-generation vehicle architectures and enhancing the profitability of specialized component suppliers. The shift towards these higher-value, advanced fuel systems is positively impacting financial returns; Westport Fuel Systems, for example, achieved a gross margin of 31% in Q3 2025, primarily driven by the increased sales volume of these higher-margin engineering products.

Key Market Players

SHV Energy N.V.

Lange & Co GmbH

Total Energies SE

Shell plc

Westfalen GmbH

Aygaz A.S.

Likitgaz Distribution and Industry Inc.

Flogas Britain Limited

China Petroleum & Chemical Corporation

Report Scope

In this report, the Global Autogas Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Autogas Market, By Type

Compressed Natural Gas

Liquefied Petroleum Gas

Liquefied Natural Gas

Others

Autogas Market, By Application

Passenger Vehicles

Commercial Vehicles

Two-Wheelers

Others

Autogas Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Autogas Market.

Available Customizations:

Global Autogas Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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