

Africa CNG And LPG Vehicle - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Africa CNG And LPG Vehicle Market size is estimated at USD 1.37 billion in 2025, and is expected to reach USD 1.90 billion by 2030, at a CAGR of 6.78% during the forecast period (2025-2030).

Africa's transportation sector is undergoing a gradual shift toward cleaner and more sustainable fuels, primarily driven by a focus on environmental concerns and the reduction on the dependence on traditional fossil fuels and government policies that promote cleaner energy sources. Thus, the market for CNG and LPG vehicles is gaining traction as viable alternatives to conventional gasoline and diesel vehicles.

While the adoption of CNG and LPG vehicles in Africa is still relatively modest compared to other regions, there is a growing interest and investment in these alternative fuel technologies. The market size varies across different countries within the continent with some regions experiencing faster growth rates due to supportive regulatory frameworks and infrastructure development.

The increasing awareness about the environmental impact of conventional vehicles, including air pollution and greenhouse gas emissions, is prompting consumers and policymakers to seek cleaner alternatives. CNG and LPG typically offer cost advantages over gasoline and diesel, making them attractive options for fleet operators and individual vehicle owners seeking to lower fuel expenses.

Many African governments are implementing policies and incentives to encourage the adoption of alternative fuels, including tax incentives, subsidies, and regulatory measures such as emissions standards and fuel mandates.

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Investment in expanding refueling infrastructure, including CNG/LPG stations and distribution networks, presents a significant opportunity for private investors and government agencies.

Considering these factors, demand for CNG and LPG vehicles is expected to witness positive growth rate during the forecast period.

Africa CNG and LPG Vehicle Market Trends

Compressed Natural Gas will Hold Highest Growth Potential

The low fuel cost of compressed natural gas, which reduces the per kilometer driving cost of the vehicles, is encouraging more vehicle users, especially taxi fleet operators, to convert their conventional fuel vehicles.

Nearly half of the CO₂ emissions on the African continent come from South Africa, which is the 12th largest emitter of the gas in the world. This is mostly attributed to coal-fired power generation, transportation, and mining making the environmental pollution worsen. The largest metropolis in sub-Saharan Africa, Johannesburg, ranked as the eighth most polluted city in the world. The nation is taking significant steps to develop a climate plan to reach the peak of its national emissions by 2025. This is fuelled by adopting economical and best alternative of gasoline vehicles that is CNG powered vehicles.

In every situation examined and tested, CNG has been proven to be less expensive than competing fuels in terms of fuel cost and efficiency. The difference varies between 35% and 75% when compared to diesel and gasoline, 20% when compared to electric vehicles, and 60% when compared to gasoline-electric hybrid vehicles as well.

These CNG fuels offer an engine efficiency that is 50% quieter and offers a low CO₂ rate of between 7% and 16%. With ongoing research and innovation in fuel technology, Bio-CNG, which is still in its early stages of development, has been seen as a potential alternative to cut CO₂ emissions completely. The price of fuel and the cost of purchasing the vehicle are the two main economic considerations at play.

CNG typically offers cost savings compared to gasoline and diesel fuels. The lower cost of natural gas, coupled with potential government incentives and subsidies for CNG adoption, makes it an economically attractive option for fleet operators and individual vehicle owners looking to reduce fuel expenses.

While infrastructure for CNG refueling is still developing in Africa, there is momentum in establishing CNG filling stations and distribution networks across the continent. The improvement and expansion of infrastructure is expected to facilitate greater adoption of CNG vehicles and contribute to market growth.

Considering these factors, the demand for compressed natural fuel is anticipated to experience the highest growth potential during the forecast period.

Egypt Dominates the Market in Africa

Egypt is expected to dominate the market over other African countries. The conversion rate of old conventional fuel-based vehicles in the country is rising because of the low operational cost.

Under the conversion program initiative, Egypt's government is spending heavily on providing the infrastructure required for the promotion of CNG vehicles in the country. The conversion program aims to increase the conversion rate of vehicles to about 2,600 per month by encouraging owners to utilize the low-cost advantages and access to finance, aiming to facilitate and expand the infrastructure of natural gas fueling stations and conversion centers. Egyptian fuel station operator Gastec has also strategically

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partnered itself with Eni in order to develop multi-energy stations across the country which will offer alternative fuels apart from diesel and gasoline.

Egypt has demonstrated a proactive approach toward promoting the adoption of CNG and LPG vehicles through various government policies and initiatives. These include incentives such as tax breaks, subsidies, and regulations that favor alternative fuel vehicles. Such support creates a favorable environment for market growth and encourages consumers and businesses to embrace CNG and LPG vehicles.

Egypt has invested significantly in building out infrastructure for CNG and LPG including a comprehensive network of refueling stations and conversion centers. This extensive infrastructure provides convenient access to alternative fuels for vehicle owners across the country, thereby facilitating higher adoption rates compared to other African nations where infrastructure may be less developed.

Egypt has emerged as a leader in the region in the manufacturing, distribution, and servicing of CNG and LPG vehicles. The presence of local industry players, along with partnerships with international manufacturers and technology providers, contributes to the growth and development of the market in Egypt.

Considering these developments and factors, Egypt is expected to lead the Africa CNG and LPG vehicle market during the forecast period.

Africa CNG and LPG Vehicle Industry Overview

The African CNG and LPG vehicle market is fragmented, and many players account for a small market share. Some of the prominent companies in the African CNG and LPG Vehicle Market are ExoGas, Seat SA, Volkswagen AG, BRC Gas Equipments and others. These players are investing heavily in the research and development of CNG and LPG vehicles.

For instance, in August 2022, CNG Holdings and Scania, with their mutual alliances, delivered South Africa's first dedicated natural gas truck. The CNG trucks that were introduced follow the Euro VI compliance standards.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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