

# **North America Internal Combustion Engine Market By Fuel Type (Petroleum, Natural Gas), By End-User (Automotive, Marine, Aircraft), By Country, Competition, Forecast and Opportunities, 2020-2030F**

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## **Abstracts**

### **Market Overview**

The North America Internal Combustion Engine Market was valued at USD 101.02 Billion in 2024 and is projected to reach USD 130.39 Billion by 2030, growing at a CAGR of 4.35% during the forecast period. This market encompasses the development, production, and application of engines that operate through the combustion of fuel—mainly gasoline or diesel—within a confined chamber to generate mechanical energy. These engines are critical in a variety of applications, including automotive vehicles, heavy machinery, agriculture, and power generation systems. Despite the growing traction of electric mobility, internal combustion engines (ICEs) remain dominant in North America due to their established infrastructure, mature supply chain, and unmatched power capabilities in sectors such as freight transport and industrial machinery. Technological innovations such as turbocharging, direct injection, and hybrid integration have enhanced ICE performance while enabling compliance with tightening emissions regulations. As the demand for high-performance and fuel-efficient engines remains strong—particularly in commercial vehicles and off-highway applications—the ICE market continues to show resilience and adaptability amid evolving environmental and regulatory landscapes.

### **Key Market Drivers**

Increasing Demand for Commercial Vehicles and Heavy-Duty Transportation

The growing need for commercial vehicles and heavy-duty transportation across North America is a major factor propelling the internal combustion engine market. Freight trucks, buses, and construction machinery predominantly rely on ICEs due to their reliability, superior torque output, and compatibility with long-range and high-load operations. Expanding logistics networks, infrastructure development, and sustained e-commerce growth continue to drive demand for ICE-powered commercial fleets. Fleet owners favor ICEs for their cost-effectiveness, performance, and ease of maintenance. Government investments in transportation infrastructure further stimulate market demand, while manufacturers are continuously innovating to improve fuel efficiency and lower emissions, aligning with operational cost savings and regulatory compliance. Currently, around 70% of commercial trucks in North America use ICEs, supporting a logistics system that transports over 15 billion tons of goods annually.

## **Key Market Challenges**

### **Increasing Regulatory Pressure on Emission Standards**

Environmental regulations are becoming increasingly stringent across North America, posing a significant challenge for ICE manufacturers. Federal and state mandates targeting reductions in nitrogen oxides, particulate matter, and greenhouse gas emissions necessitate costly upgrades in engine design and emission control systems. Technologies like selective catalytic reduction (SCR) and diesel particulate filters (DPF) add complexity and expense to ICE manufacturing and maintenance. Variability in state-level standards, particularly in regions like California, further complicates compliance. Non-adherence to these regulations can lead to financial penalties and reputational risks, while the capital required for retrofitting older engines or replacing fleets with compliant models strains end-users. These compliance pressures present an ongoing barrier to widespread ICE adoption, particularly in sectors with tighter budget constraints.

## **Key Market Trends**

### **Integration of Hybrid Powertrain Technologies to Improve Efficiency**

A prominent trend in the North America ICE market is the increasing incorporation of hybrid powertrain technologies. Hybrid systems combine traditional ICEs with electric motors to enhance fuel efficiency and lower emissions, offering a transitional solution in the shift toward electrification. This setup allows for fuel savings through features like regenerative braking and power optimization based on driving conditions. Automakers

are developing hybrid solutions across a range of vehicle segments, from passenger cars to light commercial and even heavy-duty trucks. As advancements in battery storage and electric drivetrain integration continue, hybrid ICEs are becoming more affordable and efficient. These technologies support regulatory compliance and appeal to environmentally conscious consumers, positioning hybrid ICE vehicles as a practical choice in the near-term mobility landscape.

## **Key Market Players**

Volkswagen AG

Toyota Industries Corporation

Robert Bosch GmbH

Shanghai Diesel Engine Co., Ltd.

BMW AG

General Motors

Ford Motor Company

AB Volvo

## **Report Scope:**

In this report, the North America Internal Combustion Engine Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

North America Internal Combustion Engine Market, By Fuel Type:

Petroleum

Natural Gas

North America Internal Combustion Engine Market, By End-User:

Automotive

Marine

Aircraft

North America Internal Combustion Engine Market, By Country:

United States

Canada

Mexico

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the North America Internal Combustion Engine Market.

## **Available Customizations:**

North America Internal Combustion Engine 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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