

# **Asia Pacific Gas Engine Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Fuel Type (Natural Gas and Special Gas), Power Output (100-300 kW, 300-500 kW, 0.5-1 MW, 1-2 MW, 2-5 MW, 5-10 MW, and 10-15MW), and End-User [Remote (Mining, Drilling, Others), Mid-Stream Oil and Gas, Heavy Industries (Chemicals, Paper, Metals, Food and Beverages, Others), Light Manufacturing, Utilities (Grid, IPP, Others), Biogas, Datacenters, MUSH, and Commercial]**

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## **Abstracts**

The Asia Pacific gas engine market is projected to grow significantly, reaching an estimated US\$ 2,529.98 million by 2031, up from US\$ 1,555.22 million in 2024. This growth represents a compound annual growth rate (CAGR) of 7.3% from 2025 to 2031.

## **Executive Summary and Market Analysis**

The gas engine market in the Asia Pacific region is divided into several key countries, including India, Japan, Australia, China, South Korea, and other nations in the Rest of Asia Pacific. Among these, China stands out as a leading manufacturer of gas engines. The increasing population in countries like India and China is driving a higher demand for electricity, prompting end users such as power generation plants, manufacturing industries, and remote facilities to adopt natural gas engines for their energy needs.

China's robust manufacturing capabilities position it as a central hub for gas engine production, while India and Japan also play significant roles in the market's growth. The region is characterized by mass production of gas engines, which are essential for various applications, including manufacturing and power generation. The availability of a skilled workforce in India and China further supports this manufacturing boom.

As populations grow and economic capabilities vary, many countries in the region are increasingly favoring gas engines over traditional electric energy sources. The high costs associated with electric energy plants and the lack of necessary infrastructure have contributed to this trend. Additionally, governments across the Asia Pacific are promoting the use of natural gas in engines due to its lower emissions, aligning with regulatory standards aimed at reducing environmental impact. This shift towards natural gas is expected to drive market growth, especially as the demand for electricity continues to rise.

## **Strategic Insights**

### **Market Segmentation Analysis**

The Asia Pacific gas engine market can be segmented based on fuel type, power output, and end user:

**By Fuel Type:** The market is divided into natural gas and special gas, with natural gas holding a larger market share in 2024.

**By Power Output:** The segments include 100-300 kW, 300-500 kW, 0.5-1 MW, 1-2 MW, 2-5 MW, 5-10 MW, and 10-15 MW. The 5-10 MW segment accounted for the largest share in 2024.

**By End User:** This includes remote applications, mid-stream oil and gas, heavy industries, light manufacturing, utilities, biogas, data centers, and commercial uses. Heavy industries represented the largest share of the market in 2024.

## **Market Outlook**

Governments in the Asia Pacific are increasingly supporting the transition to cleaner energy sources as part of their environmental sustainability initiatives. This is crucial for

the global movement towards decarbonization and the reduction of greenhouse gas emissions. Various incentives, subsidies, and tax breaks are being offered to encourage the adoption of cleaner and more energy-efficient technologies. Gas engines, being a cleaner alternative to coal and oil, are well-positioned to benefit from these supportive policies.

For instance, the Chinese government provides tax incentives, feed-in tariffs (FiTs), and direct subsidies to promote clean energy generation. These initiatives support the development of over 1,400 gigawatts (GW) of renewable capacity. Similarly, India's Ministry of New and Renewable Energy offers capital subsidies covering up to 40% of solar rooftop installation costs, while Japan promotes offshore wind projects with substantial annual grants. Southeast Asian countries like Vietnam and the Philippines also utilize feed-in tariffs to encourage solar and wind energy development. Support from organizations such as the Asian Development Bank is further driving the region's shift towards sustainable energy.

## Country Insights

The Asia Pacific gas engine market includes key players from Australia, China, India, Italy, Japan, South Korea, and the Rest of Asia Pacific, with China holding the largest market share in 2024. China's strong industrialization has made it a major manufacturer of advanced gas engines, with high consumption for power generation applications. The country also exports a significant number of gas engines to other regions, bolstering market growth.

A notable development in the market is the launch of Weichai's new generation of gas-powered engines, which marks a significant advancement in the internal combustion engine industry. This introduction aligns with the growing demand for cleaner energy solutions in transportation and logistics, contributing to the overall growth of the gas engine market in China.

## Company Profiles

Key players in the Asia Pacific gas engine market include Rolls-Royce Holdings Plc, Ningbo C.S.I. Power & Machinery Group Co., Ltd, Guascor Energy S.A.U, IHI Corp, MAN Energy Solutions SE, 2G ENERGY AG, Wartsila Corp, R Schmitt Enertec GmbH, Mitsubishi Heavy Industries Ltd, Liebherr, Kawasaki Heavy Industries Ltd, Fairbanks Morse, LLC, Cummins Inc, Caterpillar Inc, and INNIO Jenbacher GmbH & Co. These companies are employing various strategies such as expansion, product innovation,

and mergers and acquisitions to enhance their market presence and offer innovative products to consumers.

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