

# Gas Engine Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

<https://marketpublishers.com/r/GDFAD5FA3287EN.html>

Date: April 2022

Pages: 145

Price: US\$ 2,499.00 (Single User License)

ID: GDFAD5FA3287EN

## Abstracts

The global gas engine market reached a value of US\$ 5.05 Billion in 2021. Looking forward, IMARC Group expects the market to reach a value of US\$ 6.74 Billion by 2027, exhibiting a CAGR of 4.70% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Gas engines refer to internal combustion engines that operate on various gaseous fuels, such as natural gas, coal gas, producer gas, and biogas. They consist of a fixed cylinder and a moving piston and are widely used as heavy-duty industrial engines capable of running at full load continuously. They can power automobiles, light trucks, medium-to-large motorcycles, and lawn mowers. Gas engines are more efficient, cost-effective, and reliable than their traditional counterparts that utilized an ignition source, such as a spark or small amount of pilot fuel. They also offer high electrical and thermal efficiency, low maintenance and operation costs, and environmental benefits. As a result, gas engines are rapidly gaining traction across numerous industries, including power generation, manufacturing, oil and gas, utilities, and transportation. Gas Engine Market Trends:

The rising need for clean and efficient power generation technology represents the primary factor driving the market growth. Besides this, the escalating demand for electricity due to rapid industrialization and urbanization, growing population, and infrastructure development has accelerated the adoption of gas engines in electric utilities to handle peak load demand effectively. Additionally, governments of various countries are taking favorable initiatives, such as the implementation of stringent regulations, for minimizing greenhouse gas (GHG) emissions and air pollution. Along with this, the rising environmental concerns and the shifting preferences toward

renewable energy sources among the masses are propelling the market growth. Furthermore, the leading manufacturers are making heavy investments in research and development (R&D) activities to launch innovative gas engines to meet the need for higher power outputs and diesel engine standards. Other factors, including the emerging applications in the aerospace industry, easy availability of natural gas, and growing focus toward gas engine-based power plants and distributed power generation, are also anticipated to create a positive market outlook in the upcoming years.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global gas engine market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on fuel type, power output, application and industry vertical.

#### Breakup by Fuel Type: Natural Gas

Special Gas

Others

#### Breakup by Power Output:

0.5-1 MW

1-2 MW

2-5 MW

5-10 MW

10-20 MW

#### Breakup by Application:

Mechanical Drive

Power Generation

Cogeneration

Others

#### Breakup by Industry Vertical:

Utilities

Manufacturing

Oil and Gas

Mining

Others

Breakup by Region: North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Caterpillar Inc., China Yuchai International Limited, Cummins Inc., Doosan Corporation, General Electric Company, Hyundai Heavy Industries Co. Ltd., JFE Holdings Inc., Kawasaki Heavy Industries Ltd., Mitsubishi Heavy Industries Ltd., Rolls-Royce plc, Siemens AG, Volkswagen AG and W?rtsil? Oyj Abp. Key Questions Answered in This Report:

How has the global gas engine market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global gas engine market?

What are the key regional markets?

What is the breakup of the market based on the fuel type?

What is the breakup of the market based on the power output?

What is the breakup of the market based on the application?

What is the breakup of the market based on the industry vertical?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global gas engine market and who are the key players?

What is the degree of competition in the industry?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL GAS ENGINE MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY FUEL TYPE**

- 6.1 Natural Gas
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Special Gas
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Others

- 6.3.1 Market Trends
- 6.3.2 Market Forecast

## **7 MARKET BREAKUP BY POWER OUTPUT**

- 7.1 0.5-1 MW
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 1-2 MW
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 2-5 MW
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 5-10 MW
  - 7.4.1 Market Trends
  - 7.4.2 Market Forecast
- 7.5 10-20 MW
  - 7.5.1 Market Trends
  - 7.5.2 Market Forecast

## **8 MARKET BREAKUP BY APPLICATION**

- 8.1 Mechanical Drive
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Power Generation
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Cogeneration
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast
- 8.4 Others
  - 8.4.1 Market Trends
  - 8.4.2 Market Forecast

## **9 MARKET BREAKUP BY INDUSTRY VERTICAL**

- 9.1 Utilities

- 9.1.1 Market Trends
- 9.1.2 Market Forecast
- 9.2 Manufacturing
  - 9.2.1 Market Trends
  - 9.2.2 Market Forecast
- 9.3 Oil and Gas
  - 9.3.1 Market Trends
  - 9.3.2 Market Forecast
- 9.4 Mining
  - 9.4.1 Market Trends
  - 9.4.2 Market Forecast
- 9.5 Others
  - 9.5.1 Market Trends
  - 9.5.2 Market Forecast

## **10 MARKET BREAKUP BY REGION**

- 10.1 North America
  - 10.1.1 United States
    - 10.1.1.1 Market Trends
    - 10.1.1.2 Market Forecast
  - 10.1.2 Canada
    - 10.1.2.1 Market Trends
    - 10.1.2.2 Market Forecast
- 10.2 Asia-Pacific
  - 10.2.1 China
    - 10.2.1.1 Market Trends
    - 10.2.1.2 Market Forecast
  - 10.2.2 Japan
    - 10.2.2.1 Market Trends
    - 10.2.2.2 Market Forecast
  - 10.2.3 India
    - 10.2.3.1 Market Trends
    - 10.2.3.2 Market Forecast
  - 10.2.4 South Korea
    - 10.2.4.1 Market Trends
    - 10.2.4.2 Market Forecast
  - 10.2.5 Australia
    - 10.2.5.1 Market Trends

- 10.2.5.2 Market Forecast
- 10.2.6 Indonesia
  - 10.2.6.1 Market Trends
  - 10.2.6.2 Market Forecast
- 10.2.7 Others
  - 10.2.7.1 Market Trends
  - 10.2.7.2 Market Forecast
- 10.3 Europe
  - 10.3.1 Germany
    - 10.3.1.1 Market Trends
    - 10.3.1.2 Market Forecast
  - 10.3.2 France
    - 10.3.2.1 Market Trends
    - 10.3.2.2 Market Forecast
  - 10.3.3 United Kingdom
    - 10.3.3.1 Market Trends
    - 10.3.3.2 Market Forecast
  - 10.3.4 Italy
    - 10.3.4.1 Market Trends
    - 10.3.4.2 Market Forecast
  - 10.3.5 Spain
    - 10.3.5.1 Market Trends
    - 10.3.5.2 Market Forecast
  - 10.3.6 Russia
    - 10.3.6.1 Market Trends
    - 10.3.6.2 Market Forecast
  - 10.3.7 Others
    - 10.3.7.1 Market Trends
    - 10.3.7.2 Market Forecast
- 10.4 Latin America
  - 10.4.1 Brazil
    - 10.4.1.1 Market Trends
    - 10.4.1.2 Market Forecast
  - 10.4.2 Mexico
    - 10.4.2.1 Market Trends
    - 10.4.2.2 Market Forecast
  - 10.4.3 Others
    - 10.4.3.1 Market Trends
    - 10.4.3.2 Market Forecast



## 10.5 Middle East and Africa

### 10.5.1 Market Trends

### 10.5.2 Market Breakup by Country

### 10.5.3 Market Forecast

## **11 SWOT ANALYSIS**

### 11.1 Overview

### 11.2 Strengths

### 11.3 Weaknesses

### 11.4 Opportunities

### 11.5 Threats

## **12 VALUE CHAIN ANALYSIS**

## **13 PORTERS FIVE FORCES ANALYSIS**

### 13.1 Overview

### 13.2 Bargaining Power of Buyers

### 13.3 Bargaining Power of Suppliers

### 13.4 Degree of Competition

### 13.5 Threat of New Entrants

### 13.6 Threat of Substitutes

## **14 PRICE ANALYSIS**

## **15 COMPETITIVE LANDSCAPE**

### 15.1 Market Structure

### 15.2 Key Players

### 15.3 Profiles of Key Players

#### 15.3.1 Caterpillar Inc.

##### 15.3.1.1 Company Overview

##### 15.3.1.2 Product Portfolio

##### 15.3.1.3 Financials

##### 15.3.1.4 SWOT Analysis

#### 15.3.2 China Yuchai International Limited

##### 15.3.2.1 Company Overview

##### 15.3.2.2 Product Portfolio

- 15.3.2.3 Financials
- 15.3.3 Cummins Inc.
  - 15.3.3.1 Company Overview
  - 15.3.3.2 Product Portfolio
  - 15.3.3.3 Financials
  - 15.3.3.4 SWOT Analysis
- 15.3.4 Doosan Corporation
  - 15.3.4.1 Company Overview
  - 15.3.4.2 Product Portfolio
  - 15.3.4.3 Financials
- 15.3.5 General Electric Company
  - 15.3.5.1 Company Overview
  - 15.3.5.2 Product Portfolio
  - 15.3.5.3 Financials
  - 15.3.5.4 SWOT Analysis
- 15.3.6 Hyundai Heavy Industries Co. Ltd.
  - 15.3.6.1 Company Overview
  - 15.3.6.2 Product Portfolio
- 15.3.7 JFE Holdings Inc.
  - 15.3.7.1 Company Overview
  - 15.3.7.2 Product Portfolio
  - 15.3.7.3 Financials
  - 15.3.7.4 SWOT Analysis
- 15.3.8 Kawasaki Heavy Industries Ltd.
  - 15.3.8.1 Company Overview
  - 15.3.8.2 Product Portfolio
  - 15.3.8.3 Financials
  - 15.3.8.4 SWOT Analysis
- 15.3.9 Mitsubishi Heavy Industries Ltd.
  - 15.3.9.1 Company Overview
  - 15.3.9.2 Product Portfolio
  - 15.3.9.3 Financials
  - 15.3.9.4 SWOT Analysis
- 15.3.10 Rolls-Royce plc
  - 15.3.10.1 Company Overview
  - 15.3.10.2 Product Portfolio
  - 15.3.10.3 Financials
  - 15.3.10.4 SWOT Analysis
- 15.3.11 Siemens AG

- 15.3.11.1 Company Overview
- 15.3.11.2 Product Portfolio
- 15.3.11.3 Financials
- 15.3.11.4 SWOT Analysis
- 15.3.12 Volkswagen AG
  - 15.3.12.1 Company Overview
  - 15.3.12.2 Product Portfolio
  - 15.3.12.3 Financials
  - 15.3.12.4 SWOT Analysis
- 15.3.13 W?rtsil? Oyj Abp
  - 15.3.13.1 Company Overview
  - 15.3.13.2 Product Portfolio
  - 15.3.13.3 Financials
  - 15.3.13.4 SWOT Analysis

## List Of Tables

### LIST OF TABLES

Table 1: Global: Gas Engine Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Gas Engine Market Forecast: Breakup by Fuel Type (in Million US\$), 2022-2027

Table 3: Global: Gas Engine Market Forecast: Breakup by Power Output (in Million US\$), 2022-2027

Table 4: Global: Gas Engine Market Forecast: Breakup by Application (in Million US\$), 2022-2027

Table 5: Global: Gas Engine Market Forecast: Breakup by Industry Vertical (in Million US\$), 2022-2027

Table 6: Global: Gas Engine Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 7: Global: Gas Engine Market: Competitive Structure

Table 8: Global: Gas Engine Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Gas Engine Market: Major Drivers and Challenges

Figure 2: Global: Gas Engine Market: Sales Value (in Billion US\$), 2016-2021

Figure 3: Global: Gas Engine Market Forecast: Sales Value (in Billion US\$), 2022-2027

Figure 4: Global: Gas Engine Market: Breakup by Fuel Type (in %), 2021

Figure 5: Global: Gas Engine Market: Breakup by Power Output (in %), 2021

Figure 6: Global: Gas Engine Market: Breakup by Application (in %), 2021

Figure 7: Global: Gas Engine Market: Breakup by Industry Vertical (in %), 2021

Figure 8: Global: Gas Engine Market: Breakup by Region (in %), 2021

Figure 9: Global: Gas Engine (Natural Gas) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 10: Global: Gas Engine (Natural Gas) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 11: Global: Gas Engine (Special Gas) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 12: Global: Gas Engine (Special Gas) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 13: Global: Gas Engine (Other Fuel Types) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 14: Global: Gas Engine (Other Fuel Types) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 15: Global: Gas Engine (0.5-1 MW) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 16: Global: Gas Engine (0.5-1 MW) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 17: Global: Gas Engine (1-2 MW) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 18: Global: Gas Engine (1-2 MW) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 19: Global: Gas Engine (2-5 MW) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 20: Global: Gas Engine (2-5 MW) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Global: Gas Engine (5-10 MW) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 22: Global: Gas Engine (5-10 MW) Market Forecast: Sales Value (in Million

US\$), 2022-2027

Figure 23: Global: Gas Engine (10-20 MW) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: Global: Gas Engine (10-20 MW) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: Global: Gas Engine (Mechanical Drive) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: Global: Gas Engine (Mechanical Drive) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Global: Gas Engine (Power Generation) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Global: Gas Engine (Power Generation) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: Global: Gas Engine (Cogeneration) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: Global: Gas Engine (Cogeneration) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: Global: Gas Engine (Other Applications) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: Global: Gas Engine (Other Applications) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: Global: Gas Engine (Utilities) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: Global: Gas Engine (Utilities) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: Global: Gas Engine (Manufacturing) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: Global: Gas Engine (Manufacturing) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: Global: Gas Engine (Oil and Gas) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: Global: Gas Engine (Oil and Gas) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 39: Global: Gas Engine (Mining) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 40: Global: Gas Engine (Mining) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 41: Global: Gas Engine (Other Industry Verticals) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 42: Global: Gas Engine (Other Industry Verticals) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 43: North America: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 44: North America: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 45: United States: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 46: United States: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 47: Canada: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 48: Canada: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 49: Asia-Pacific: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 50: Asia-Pacific: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 51: China: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 52: China: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 53: Japan: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 54: Japan: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 55: India: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 56: India: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 57: South Korea: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 58: South Korea: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: Australia: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: Australia: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 61: Indonesia: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: Indonesia: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 63: Others: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 64: Others: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 65: Europe: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 66: Europe: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 67: Germany: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021



Figure 68: Germany: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 69: France: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 70: France: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 71: United Kingdom: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 72: United Kingdom: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 73: Italy: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 74: Italy: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 75: Spain: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 76: Spain: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 77: Russia: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 78: Russia: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 79: Others: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 80: Others: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 81: Latin America: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 82: Latin America: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 83: Brazil: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 84: Brazil: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 85: Mexico: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 86: Mexico: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 87: Others: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 88: Others: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 89: Middle East and Africa: Gas Engine Market: Sales Value (in Million US\$), 2016 & 2021

Figure 90: Middle East and Africa: Gas Engine Market: Breakup by Country (in %), 2021

Figure 91: Middle East and Africa: Gas Engine Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 92: Global: Gas Engine Industry: SWOT Analysis

Figure 93: Global: Gas Engine Industry: Value Chain Analysis

Figure 94: Global: Gas Engine Industry: Porter's Five Forces Analysis



## I would like to order

Product name: Gas Engine Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

Product link: <https://marketpublishers.com/r/GDFAD5FA3287EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GDFAD5FA3287EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

