

Dual Fuel Engine Market by Type (Four-Stroke Dual-Fuel Engines, Two-Stroke Dual-Fuel Engines), End User (Marine, Power Generation), and Region 2024-2032

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Abstracts

The global dual fuel engine market size reached US\$ 3.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 13.0 Billion by 2032, exhibiting a growth rate (CAGR) of 14.67% during 2024-2032. The widespread product adoption in the power generation industry, extensive research and development (R&D) activities and the increasing product demand in the marine industry represent some of the key factors driving the market.

A dual-fuel engine is an internal combustion (IC) engine that operates using a mixture of two different fuels. It runs on primary (main) and secondary (pilot) fuel, where the primary source is typically a gaseous fuel, such as hydrogen or syngas, or natural gas, which is injected into the intake manifold. On the other hand, the secondary or pilot fuel is injected into the combustion chamber using the standard fuel injection equipment and is used to ignite the mixture. Dual fuel engines produce similar or higher state and transient performance in terms of torque, power output, and fuel conversion efficiency, reduce the environmental impact of oil and gas operation, and offer cost-effectiveness and reduced fuel consumption.

Dual Fuel Engine Market Trends:

The widespread product adoption in the automotive industry across the globe is creating a positive outlook for the market. The dual fuel engine is widely used in compression ignition (CI) engines to promote the use of more readily available gaseous fuels or more efficient, advanced combustion modes. Additionally, the increasing utilization of dual fuel engines for land-based oil and gas drilling applications, as they deliver the same

power density, torque curve, and transient response as the base diesel engine, is favoring the market growth. In line with this, the launch of the dual fuel combustion system in a mining truck which includes an onboard hydrogen storage system and replaces significant volumes of diesel due to the rising environmental consciousness among the masses is acting as another growth-inducing factor. Apart from this, the integration of machine learning (ML) with dual fuel engines that are used to predict the performance and emission characteristics and predict the biogas fuel, torque, and intake temperature is providing an impetus to the market growth. Moreover, the widespread product adoption in the marine industry to deliver excellent performance under the toughest conditions at sea and optimize vessel performance is positively influencing the market growth. Furthermore, the implementation of various government initiatives to utilize dual fuel engines for agricultural purposes due to the increasing emission levels of diesel engines is propelling the market growth. Other factors, including widespread product adoption in the power generation industry, extensive research and development (R&D) activities and various technological advancements, are anticipated to drive the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global dual fuel engine market, along with forecasts at the global, regional, and country level from 2024-2032. Our report has categorized the market based on type, and end user.

Type Insights:

Four-Stroke Dual-Fuel Engines

Two-Stroke Dual-Fuel Engines

The report has provided a detailed breakup and analysis of the dual fuel engine market based on the type. This includes four and two-stroke dual-fuel engines. According to the report, two-stroke dual-fuel engine represented the largest segment.

End User Insights:

Marine

Power Generation

The report has provided a detailed breakup and analysis of the dual fuel engine market based on the end user. This includes marine and power generation. According to the report, marine represented the largest segment.

Regional Insights:

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

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific was the largest market for dual fuel engines. Some of the factors driving the Asia Pacific dual fuel engine market included extensive research and development (R&D) activities, various technological advancements, and widespread product adoption in drilling applications.

Competitive Landscape:

Dual Fuel Engine Market by Type (Four-Stroke Dual-Fuel Engines, Two-Stroke Dual-Fuel Engines), End User (Marin...

The report has also provided a comprehensive analysis of the competitive landscape in the global dual fuel engine market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Anglo Belgian Corp., Caterpillar Inc., Cummins Inc., Daihatsu Diesel Manufacturing Co. Ltd., Heinzmann GmbH and Co. KG, Hyundai Motor Company, Kawasaki Heavy Industries Ltd., MAN Energy Solutions SE, Wartsila Corp., Yanmar Co. Ltd., etc.

Key Questions Answered in This Report:

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

What are the drivers, restraints, and opportunities in the global dual fuel engine market?

What are the key regional markets?

Which countries represent the most attractive dual fuel engine markets?

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

What is the breakup of the market based on end user?

What is the competitive structure of the global dual fuel engine market?

Who are the key players/companies in the global dual fuel engine market?

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 DUAL FUEL ENGINE MARKET

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

6 MARKET BREAKUP BY TYPE

- 6.1 Four-Stroke Dual-Fuel Engines
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Two-Stroke Dual-Fuel Engines
 - 6.2.1 Market Trends

6.2.2 Market Forecast

7 MARKET BREAKUP BY END USER

7.1 Marine

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Power Generation

7.2.1 Market Trends

7.2.2 Market Forecast

8 MARKET BREAKUP BY REGION

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

8.2.3.2 Market Forecast

8.2.4 South Korea

8.2.4.1 Market Trends

8.2.4.2 Market Forecast

8.2.5 Australia

8.2.5.1 Market Trends

8.2.5.2 Market Forecast

8.2.6 Indonesia

8.2.6.1 Market Trends

8.2.6.2 Market Forecast

- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast
 - 8.4.2 Mexico
 - 8.4.2.1 Market Trends
 - 8.4.2.2 Market Forecast
 - 8.4.3 Others
 - 8.4.3.1 Market Trends
 - 8.4.3.2 Market Forecast
- 8.5 Middle East and Africa
 - 8.5.1 Market Trends
 - 8.5.2 Market Breakup by Country
 - 8.5.3 Market Forecast

9 DRIVERS, RESTRAINTS, AND OPPORTUNITIES

- 9.1 Overview
- 9.2 Drivers
- 9.3 Restraints
- 9.4 Opportunities

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

- 11.1 Overview
- 11.2 Bargaining Power of Buyers
- 11.3 Bargaining Power of Suppliers
- 11.4 Degree of Competition
- 11.5 Threat of New Entrants
- 11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

- 13.1 Market Structure
- 13.2 Key Players
- 13.3 Profiles of Key Players
 - 13.3.1 Anglo Belgian Corp.
 - 13.3.1.1 Company Overview
 - 13.3.1.2 Product Portfolio
 - 13.3.2 Caterpillar Inc.
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
 - 13.3.2.3 Financials
 - 13.3.2.4 SWOT Analysis
 - 13.3.3 Cummins Inc.
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio

- 13.3.3.3 Financials
- 13.3.3.4 SWOT Analysis
- 13.3.4 Daihatsu Diesel Manufacturing Co. Ltd.
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
 - 13.3.4.3 Financials
- 13.3.5 Heinzmann GmbH and Co. KG
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
- 13.3.6 Hyundai Motor Company
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
 - 13.3.6.3 Financials
 - 13.3.6.4 SWOT Analysis
- 13.3.7 Kawasaki Heavy Industries Ltd.
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
 - 13.3.7.3 Financials
 - 13.3.7.4 SWOT Analysis
- 13.3.8 MAN Energy Solutions SE
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
 - 13.3.8.3 SWOT Analysis
- 13.3.9 Wartsila Corp.
 - 13.3.9.1 Company Overview
 - 13.3.9.2 Product Portfolio
 - 13.3.9.3 Financials
 - 13.3.9.4 SWOT Analysis
- 13.3.10 Yanmar Co. Ltd.
 - 13.3.10.1 Company Overview
 - 13.3.10.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Dual Fuel Engine Market: Key Industry Highlights, 2023 & 2032

Table 2: Global: Dual Fuel Engine Market Forecast: Breakup by Type (in Million US\$), 2024-2032

Table 3: Global: Dual Fuel Engine Market Forecast: Breakup by End User (in Million US\$), 2024-2032

Table 4: Global: Dual Fuel Engine Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 5: Global: Dual Fuel Engine Market: Competitive Structure

Table 6: Global: Dual Fuel Engine Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Dual Fuel Engine Market: Major Drivers and Challenges

Figure 2: Global: Dual Fuel Engine Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Dual Fuel Engine Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Dual Fuel Engine Market: Breakup by Type (in %), 2023

Figure 5: Global: Dual Fuel Engine Market: Breakup by End User (in %), 2023

Figure 6: Global: Dual Fuel Engine Market: Breakup by Region (in %), 2023

Figure 7: Global: Dual Fuel Engine (Four-Stroke Dual-Fuel Engines) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 8: Global: Dual Fuel Engine (Four-Stroke Dual-Fuel Engines) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 9: Global: Dual Fuel Engine (Two-Stroke Dual-Fuel Engines) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Dual Fuel Engine (Two-Stroke Dual-Fuel Engines) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Dual Fuel Engine (Marine) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Dual Fuel Engine (Marine) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Dual Fuel Engine (Power Generation) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Dual Fuel Engine (Power Generation) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: North America: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: North America: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: United States: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: United States: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Canada: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Canada: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Asia-Pacific: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Asia-Pacific: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: China: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: China: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Japan: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Japan: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: India: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: India: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: South Korea: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: South Korea: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Australia: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Australia: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Indonesia: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Indonesia: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: Others: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: Others: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Europe: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Europe: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Germany: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Germany: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: France: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: France: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: United Kingdom: Dual Fuel Engine Market: Sales Value (in Million US\$),

2018 & 2023

Figure 44: United Kingdom: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Italy: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Italy: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Spain: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Spain: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Russia: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Russia: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Others: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Others: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Latin America: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Latin America: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Brazil: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Brazil: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Mexico: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Mexico: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Others: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Others: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Middle East and Africa: Dual Fuel Engine Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Middle East and Africa: Dual Fuel Engine Market: Breakup by Country (in %), 2023

Figure 63: Middle East and Africa: Dual Fuel Engine Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 64: Global: Dual Fuel Engine Industry: Drivers, Restraints, and Opportunities

Figure 65: Global: Dual Fuel Engine Industry: Value Chain Analysis

Figure 66: Global: Dual Fuel Engine Industry: Porter's Five Forces Analysis

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