

Diesel Power Engine Market- Global Industry Size, Share, Trends, Opportunities, and Forecast, 2018-2028 Segmented By Power Rating (Up to 0.5 MW, 0.6-2 MW, 2.1-5 MW, Above 5 MW), By End User (Industrial, Commercial, Residential), By Operation (Standby, Prime/Continuous), By Region, Competition

<https://marketpublishers.com/r/DDF71C722048EN.html>

Date: October 2023

Pages: 183

Price: US\$ 4,900.00 (Single User License)

ID: DDF71C722048EN

Abstracts

Global diesel power engine market is expected to grow during the forecast period, owing to the significant factors such as growing industrialization, rising demand for reliable power backup, and increasing investments in datacentres and commercial facilities.

The internal combustion engine known as the diesel power engine named after Rudolf Diesel ignites the fuel injected into the combustion chamber by raising the temperature of the air in the cylinder as a result of mechanical compression. All that is compressed in diesel engines is air. As a result, the air within the cylinder becomes so hot that when atomized diesel fuel is delivered into the combustion chamber, it spontaneously ignites.

Global Diesel Power Engine Market: Trends & Drivers

Rapid Infrastructure Development

Rapid industrialization has accelerated infrastructure construction globally in recent years. The infrastructure industry has become more digitalized as a result of Industry 4.0, which has sped up infrastructure construction. The expansion of the world economy depends on the construction of the necessary infrastructure, including ports, power plants, airports, and systems for the transportation of goods by road and rail. The

manufacturing industry is more productive when a nation's infrastructure is built because it makes it easier to transfer raw materials and completed items. Additionally, a developed infrastructure fosters a favorable climate for investment, expanding the market.

The above-mentioned factors boost the economic growth of a country, which is good for its overall development. Diesel power engines are in high demand as a result of recent infrastructure development. Generally, heavy industrial equipment refers to heavy-duty vehicles used for construction and mining work, as heavy industrial equipment needs a diesel power engine to carry out heavy construction operations. Therefore, an increase in heavy industrial equipment will increase the demand for diesel power engines. In recent years, the US, China, India, South Korea, Brazil, the UK, Germany, Canada, and Saudi Arabia have developed rapidly in terms of infrastructure. According to Refinitiv, in 2020, 2,551 infrastructure projects were announced globally, accounting for USD 739 billion. These projects increased the demand for construction equipment, such as loaders, excavators, and dumpers. Infrastructure is growing in emerging economies as a result of local government's incentives for industrial development and FDI. This increases the demand for heavy equipment, increasing diesel power engine demand.

Increasing Demand for Commercial Vehicles in Emerging Economies

The demand for commercial vehicles in India, China, Brazil, South Korea, Argentina, Mexico, and South Africa is growing because of rapid development in the automotive and infrastructure industries. The automotive market has developed immensely over the past decades in terms of research and development, production capacity, competitive standards, and continuous development. The infrastructure industry in emerging economies has developed rapidly because of factors such as low-cost labor, low-cost raw materials, government subsidiaries, and high foreign direct investment (FDI). In addition, developing nations, such as India and China, are the world's top two populated countries, so the domestic market is large in these countries. Emerging countries have taken advantage of foreign direct investment and helped MNCs set up their assembly plants and execute large construction projects in their countries. New industrial policies being implemented by governments of developing nations have helped many MNCs to invest, which has ultimately increased the production capacity of various industries. Hence, the demand for commercial vehicles has started to increase, which, in turn, will positively impact the global diesel power engine market during the forecast period.

According to the International Organization of Motor Vehicle Manufacturers (OICA),

since 2005, the automobile industry has shown rapid growth in emerging economies because of rapid industrialization and increased foreign direct investment (FDI). Therefore, it has positively impacted the growth of the transportation sector. In addition, during the COVID-19 pandemic, the transportation of food and medical supplies increased the demand for commercial vehicles.

Companies in the automotive sector have invested significantly in the development of new and efficient vehicles. According to the annual reports of respective companies, in 2020, Eicher Motors (India) invested USD 38.5 million, Tata Motors (India) invested USD 406.79 million, Ashok Leyland (India) invested USD 406.79 million, Maruti Suzuki (India) invested USD 80.7 million, Force Motors (India) invested USD 2.20 billion, and Hyundai (South Korea) invested USD 3.93 billion in research and development for vehicles that helped these companies to launch vehicles that are appealing to the market. Large investment in research and development enabled companies, such as Ashok Leyland, Tata motors, and Eicher Motors, to deliver quality vehicles with improved performance at reasonable prices, increasing the demand for commercial vehicles. In addition, European and American companies, such as Daimler Truck (Germany), Navistra (US), Isuzu Motors (Japan), PACCAR (US), Mack Trucks (US), and Volvo Trucks (Sweden), have started to invest in developing countries to monetize the high demand for commercial vehicles.

Increasing Demand for Biofuel as Fuel:

Contrary to traditional or fossil-based diesel fuel, biodiesel is a superior and more environment-friendly fuel. Vegetable oil, animal oil or fats, tallow, and leftover cooking oil are utilized as the primary raw ingredients in the creation of biodiesel. These oils are transformed into biodiesel by the transesterification process. In addition to being able to mix with petroleum diesel fuel in any ratio, biodiesel is made to be used as a substitute for it. The biggest benefit of using biodiesel is that diesel engines do not need to be modified in any specific way. Compared to diesel fuel made from petroleum, biodiesel produces less exhaust pollutants. Compared to normal diesel fuel, biodiesel is less harmful and safer. According to the International Energy Agency (IEA), the demand for biodiesel is expected to grow by 41% during 2021-2026. The policies related to emission regulations laid down by various governments are the major drivers of the increasing demand for biodiesel. The transportation sector is one of the major consumers of biodiesel as most of the commercial vehicles used for transportation run on diesel power engines. Various government regulations allow the blending of biodiesel with conventional diesel fuel. In addition, people across the globe are becoming aware of the benefits of biodiesel in terms of vehicle performance, safety, and

exhaust emission. Therefore, all the above-mentioned factors are expected to increase the demand for biodiesel, which, in turn, will drive the demand for diesel power engines during the forecast period.

Significant Growth in Power Sector:

In recent years, the power generation sector has shown significant growth. Factors such as changing government policies, rapid industrialization, increasing population leading to an increase in per capita demand, and increasing use of renewable energy have boosted the growth of the power generation sector. If the current policy and technological advances trends continue, the global demand and consumption of electricity will grow significantly till 2050, when increasing population and economic growth will drive the power generation sector in the coming future.

Industrial development in emerging economies is one of the major factors that contribute to the growth of the power generation sector. Industrial development in developing countries in Asia and Latin America is high. Asian countries participate in global trade, which helps in their ability to draw the majority of FDI. Emerging economies develop at a rapid pace and advance their production and manufacturing processes by investing in R&D, which creates a competitive market environment. Emerging economies invest in sustainable practices, reduce air, soil, water, and marine plastic pollution, and promote low-carbon transport to strengthen their infrastructure and financial capacity. The power generation sector plays an important role in supporting this rapidly developing industrial sector.

Compared to other energy sources, the use of electricity in residential buildings is anticipated to increase more quickly. The US Energy Information Administration (EIA) predicts that by 2050, residential units will account for more than 50% of all energy use due to the rapid growth of the global population. Electricity usage in the business sector is anticipated to increase dramatically during the forecast period. The business sector's rising need for power is a result of rapid industrialization and an expanding economy. By 2050, electricity is anticipated to supply 60% of commercial energy requirements, according to the EIA.

Power generation from renewable energy sources is gaining popularity on a worldwide basis. According to projections, the demand for and usage of fossil fuels will decline as renewable energy sources over the course of the next several decades become the primary power generators. According to IEA data, renewable energy will make up 45% of the world's electricity generation by 2030, up from 30% in 2020. The contribution of

renewable energy in the generation of power is expected to equal that of fossil fuels by the year 2020. Wind and solar photovoltaics are the two primary renewable energy sources used to generate electricity. Factors such as low costs, widespread availability, and supporting policies by various governments are the driving factors for solar and wind power generation. According to the IEA, it is expected that the capacity of wind and solar PV will grow by three times during the next decade. This significant rise in renewable power generation is projected to meet all electricity demand growth till 2030. Renewable technologies, such as hydropower, bioenergy, and geothermal, will contribute significantly to the growth of renewables. All the above-mentioned factors are projected to increase the demand for diesel engine generators, which, in turn, will positively impact the global diesel power engine market during the forecast period.

Market Segments

The global diesel power engine market is segmented into power rating, end-user, operation, and region. Based on power rating, the market is segmented into up to 0.5 MW, 0.6-2 MW, 2.1-5 MW, and above 5 MW. Based on end user, the market is segmented into industrial, commercial, and residential. Based on operation, the market is segmented into standby and prime/continuous. Based on region, the market is segmented into North America, Asia-Pacific, Europe, South America, and Middle East & Africa.

Market Players

Major market players in the global diesel power engine market are Caterpillar Inc., Cummins Inc., Wartsila Oyj Abp, Rolls-Royce Holding PLC, Man SE, Mitsubishi Heavy Industries Ltd, Volvo AB, Hyundai Heavy Industries Co. Ltd, Doosan Corp., and Yanmar Holdings.

Report Scope:

In this report, the global diesel power engine market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Diesel Power Engine Market, By Power Rating:

Up to 0.5 MW

0.6-2 MW

2.1-5 MW

Above 5 MW

Diesel Power Engine Market, By End User:

Industrial

Commercial

Residential

Diesel Power Engine Market, By Operation:

Standby

Prime/Continuous

Diesel Power Engine Market, By Region:

North America

United States

Canada

Mexico

Europe

France

Germany

United Kingdom

Italy

Spain

Asia pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

South Africa

Saudi Arabia

UAE

South America

Brazil

Argentina

Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global diesel power engine market.

Available Customizations:

Global diesel power engine market with the given market data, Tech Sci 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).

Contents

1. Product Overview

1.1. Market Definition

1.2. Scope of the Study

2. RESEARCH METHODOLOGY

2.1. Baseline Methodology

2.2. Methodology Followed for Calculation of Market Size

2.3. Methodology Followed for Calculation of Market Shares

2.4. Methodology Followed for Forecasting

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. GLOBAL DIESEL POWER ENGINE MARKET OUTLOOK

5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Power Rating (Up to 0.5 MW, 0.6-2 MW, 2.1-5 MW & Above 5 MW)

5.2.2. By End-User (Industrial, Commercial & Residential)

5.2.3. By Operation (Standby, Prime/Continuous)

5.2.4. By Region (North America, Asia-Pacific, Europe, Middle East & Africa and South America)

5.3. By Company (2022)

5.4. Market Map (By Power Rating, By End-User, By Operation, By Region)

6. NORTH AMERICA DIESEL POWER ENGINE MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Power Rating

6.2.2. By End-User

- 6.2.3. By Operation
- 6.2.4. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Diesel Power Engine Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Power Rating
 - 6.3.1.2.2. By End-User
 - 6.3.1.2.3. By Operation
 - 6.3.2. Canada Diesel Power Engine Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Power Rating
 - 6.3.2.2.2. By End-User
 - 6.3.2.2.3. By Operation
 - 6.3.3. Mexico Diesel Power Engine Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Power Rating
 - 6.3.3.2.2. By End-User
 - 6.3.3.2.3. By Operation

7. EUROPE DIESEL POWER ENGINE MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Power Rating
 - 7.2.2. By End-User
 - 7.2.3. By Operation
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. France Diesel Power Engine Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast

- 7.3.1.2.1. By Power Rating
- 7.3.1.2.2. By End-User
- 7.3.1.2.3. By Operation
- 7.3.2. Germany Diesel Power Engine Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Power Rating
 - 7.3.2.2.2. By End-User
 - 7.3.2.2.3. By Operation
- 7.3.3. United Kingdom Diesel Power Engine Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Power Rating
 - 7.3.3.2.2. By End-User
 - 7.3.3.2.3. By Operation
- 7.3.4. Italy Diesel Power Engine Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Power Rating
 - 7.3.4.2.2. By End-User
 - 7.3.4.2.3. By Operation
- 7.3.5. Spain Diesel Power Engine Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Power Rating
 - 7.3.5.2.2. By End-User
 - 7.3.5.2.3. By Operation

8. ASIA-PACIFIC DIESEL POWER ENGINE MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Power Rating
 - 8.2.2. By End-User

8.2.3. By Operation

8.2.4. By Country

8.3. Asia-Pacific: Country Analysis

8.3.1. China Diesel Power Engine Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Power Rating

8.3.1.2.2. By End-User

8.3.1.2.3. By Operation

8.3.2. India Diesel Power Engine Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Power Rating

8.3.2.2.2. By End-User

8.3.2.2.3. By Operation

8.3.3. Japan Diesel Power Engine Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Power Rating

8.3.3.2.2. By End-User

8.3.3.2.3. By Operation

8.3.4. South Korea Diesel Power Engine Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Power Rating

8.3.4.2.2. By End-User

8.3.4.2.3. By Operation

8.3.5. Australia Diesel Power Engine Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Power Rating

8.3.5.2.2. By End-User

8.3.5.2.3. By Operation

9. SOUTH AMERICA DIESEL POWER ENGINE MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Power Rating

9.2.2. By End-User

9.2.3. By Operation

9.2.4. By Country

9.3. South America: Country Analysis

9.3.1. Brazil Diesel Power Engine Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Power Rating

9.3.1.2.2. By End-User

9.3.1.2.3. By Operation

9.3.2. Argentina Diesel Power Engine Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Power Rating

9.3.2.2.2. By End-User

9.3.2.2.3. By Operation

9.3.3. Colombia Diesel Power Engine Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Power Rating

9.3.3.2.2. By End-User

9.3.3.2.3. By Operation

10. MIDDLE EAST & AFRICA DIESEL POWER ENGINE MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Power Rating

10.2.2. By End-User

10.2.3. By Operation

10.2.4. By Country

10.3. Middle East & Africa: Country Analysis

10.3.1. South Africa Diesel Power Engine Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Power Rating

10.3.1.2.2. By End-User

10.3.1.2.3. By Operation

10.3.2. Saudi Arabia Diesel Power Engine Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Power Rating

10.3.2.2.2. By End-User

10.3.2.2.3. By Operation

10.3.3. UAE Diesel Power Engine Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Power Rating

10.3.3.2.2. By End-User

10.3.3.2.3. By Operation

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS AND DEVELOPMENTS

13. COMPETITIVE LANDSCAPE

13.1. Company Profiles

13.1.1. Caterpillar Inc.

13.1.1.1. Business Overview

13.1.1.2. Key Personnel

- 13.1.1.3. Recent Developments
- 13.1.1.4. Financials (If Available)
- 13.1.1.5. Geographical Presence
- 13.1.2. Cummins Inc.
 - 13.1.2.1. Business Overview
 - 13.1.2.2. Key Personnel
 - 13.1.2.3. Recent Developments
 - 13.1.2.4. Financials (If Available)
 - 13.1.2.5. Geographical Presence
- 13.1.3. Wartsila Oyj Abp
 - 13.1.3.1. Business Overview
 - 13.1.3.2. Key Personnel
 - 13.1.3.3. Recent Developments
 - 13.1.3.4. Financials (If Available)
 - 13.1.3.5. Geographical Presence
- 13.1.4. Rolls-Royce Holding PLC
 - 13.1.4.1. Business Overview
 - 13.1.4.2. Key Personnel
 - 13.1.4.3. Recent Developments
 - 13.1.4.4. Financials (If Available)
 - 13.1.4.5. Geographical Presence
- 13.1.5. Man SE
 - 13.1.5.1. Business Overview
 - 13.1.5.2. Key Personnel
 - 13.1.5.3. Recent Developments
 - 13.1.5.4. Financials (If Available)
 - 13.1.5.5. Geographical Presence
- 13.1.6. Mitsubishi Heavy Industries Ltd
 - 13.1.6.1. Business Overview
 - 13.1.6.2. Key Personnel
 - 13.1.6.3. Recent Developments
 - 13.1.6.4. Financials (If Available)
 - 13.1.6.5. Geographical Presence
- 13.1.7. Volvo AB
 - 13.1.7.1. Business Overview
 - 13.1.7.2. Key Personnel
 - 13.1.7.3. Recent Developments
 - 13.1.7.4. Financials (If Available)
 - 13.1.7.5. Geographical Presence

13.1.8. Hyundai Heavy Industries Co. Ltd

- 13.1.8.1. Business Overview
- 13.1.8.2. Key Personnel
- 13.1.8.3. Recent Developments
- 13.1.8.4. Financials (If Available)
- 13.1.8.5. Geographical Presence

13.1.9. Doosan Corp.

- 13.1.9.1. Business Overview
- 13.1.9.2. Key Personnel
- 13.1.9.3. Recent Developments
- 13.1.9.4. Financials (If Available)
- 13.1.9.5. Geographical Presence

13.1.10. Yanmar Holdings

- 13.1.10.1. Business Overview
- 13.1.10.2. Key Personnel
- 13.1.10.3. Recent Developments
- 13.1.10.4. Financials (If Available)
- 13.1.10.5. Geographical Presence

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

(Note: The companies list can be customized based on the client requirements)

I would like to order

Product name: Diesel Power Engine Market- Global Industry Size, Share, Trends, Opportunities, and Forecast, 2018-2028 Segmented By Power Rating (Up to 0.5 MW, 0.6-2 MW, 2.1-5 MW, Above 5 MW), By End User (Industrial, Commercial, Residential), By Operation (Standby, Prime/Continuous), By Region, Competition

Product link: <https://marketpublishers.com/r/DDF71C722048EN.html>

Price: US\$ 4,900.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/DDF71C722048EN.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