

Asia Pacific Large Scale Variable Frequency Drives Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032

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Report description:

Asia Pacific Large Scale Variable Frequency Drives (VFD) Industry reached a valuation of USD 1 billion in 2023 and is expected to grow at a CAGR of 5.3% by 2032. This growth is driven by the increasing adoption of renewable energy technologies and strong government initiatives aimed at promoting energy-efficient systems with reduced carbon footprints. Governments across the region are updating policies to meet energy intensity reduction goals aligned with broader climate action plans. Such efforts are set to significantly improve the industry outlook in the coming years.

The overall Asia Pacific Large Scale Variable Frequency Drives (VFD) market is categorized based on Voltage, Application, End-Use, and Country.

The low voltage large scale VFD sector in Asia Pacific is projected to exceed USD 480 million by 2032, driven by the expansion of grid infrastructure and the growing demand for sustainable equipment with lower mechanical and operational costs. Technological advancements focused on enhancing motor systems, combined with government policies supporting sustainable infrastructure development, will further drive the growth of the low voltage VFD market.

There is also a shift toward integrating monitoring and control systems across both small and large-scale applications. This trend is in response to the rising need to adjust motor speeds based on actual requirements, reducing energy losses. The demand for high-performance drives is increasing, particularly in industries such as marine, oil and gas, and power generation, which continue to experience growth alongside advancements in grid infrastructure. These factors are propelling the medium voltage VFD market.

The pump segment is forecasted to grow at a rate of over 5% by 2032, largely driven by the push for energy savings and efforts by key players to offer efficient, low-maintenance systems. Retrofitting activities across large commercial and industrial operations aimed at reducing energy losses will continue to fuel the demand for large-scale VFDs. Additionally, industries like chemical and petrochemicals are increasingly adopting large drives to enhance process efficiency and achieve greater energy savings, further boosting product demand.

In China, the large-scale VFD industry is expected to surpass USD 760 million by 2032. Ongoing research and development efforts to improve the performance of large motors and drives, along with growing investments from both domestic and international

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entities, are shaping the market. Rising concerns about energy security and continuous retrofitting activities across commercial and industrial sectors are also contributing to the growth of the VFD market in China.

Table of Contents:

Report Content

Chapter 1 Methodology and Scope

1.1 Market definitions

1.2 Base estimates and calculations

1.3 Forecast calculation

1.4 Data sources

1.4.1 Primary

1.4.2 Secondary

1.4.2.1 Paid

1.4.2.2 Public

Chapter 2 Industry Insights

2.1 Industry ecosystem analysis

2.2 Regulatory landscape

2.3 Industry impact forces

2.3.1 Growth drivers

2.3.2 Industry pitfalls and challenges

2.4 Growth potential analysis

2.5 Porter's analysis

2.5.1 Bargaining power of suppliers

2.5.2 Bargaining power of buyers

2.5.3 Threat of new entrants

2.5.4 Threat of substitutes

2.6 PESTEL Analysis

Chapter 3 Competitive Landscape, 2023

3.1 Strategic outlook

3.2 Innovation and sustainability landscape

Chapter 4 Market Size and Forecast, By Voltage, 2021 - 2032, ('000 Units and USD Million)

4.1 Key trends

4.2 Low

4.3 Medium

Chapter 5 Market Size and Forecast, By Application, 2021 - 2032, ('000 Units and USD Million)

5.1 Key trends

5.2 Pump

5.3 Fan

5.4 Conveyor

5.5 Compressor

5.6 Extruder

5.7 Others

Chapter 6 Market Size and Forecast, By End-Use, 2021 - 2032, ('000 Units and USD Million)

6.1 Key trends

6.2 Oil and gas

6.3 Power generation

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6.4 Mining and metals

6.5 Pulp and paper

6.6 Marine

6.7 Others

Chapter 7 Market Size and Forecast, By Country, 2021 - 2032, ('000 Units and USD Million)

7.1 Key trends

7.2 China

7.3 Japan

7.4 India

7.5 Australia

7.6 South Korea

Chapter 8 Company Profiles

8.1 ABB

8.2 CG Power and Industrial Solutions Ltd.

8.3 Danfoss

8.4 Eaton

8.5 Fuji Electric Co., Ltd.

8.6 Hiconics Eco-energy Technology Co., Ltd.

8.7 Ingeteam Power Technology, S.A

8.8 NIDEC CORPORATION

8.9 Schneider Electric

8.10 Siemens

8.11 TMEIC

8.12 WEG

8.13 Xi'an XICHI Electric Co., Ltd.

8.14 YASKAWA ELECTRIC CORPORATION

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