

Variable Speed Generator Market by Type (Permanent Magnet, Doubly Fed Induction, Self-Excitation Induction, Wound Rotor Induction), Prime Mover (Wind, Hydro, Steam & Gas Turbine, Ic Engine), Technology, Power, End-User, Region – Global Forecast to 2022

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Abstracts

“The variable speed generator market is projected to grow at a CAGR of 7.63%, from 2017 to 2022.”

The global variable speed generator market is estimated at USD 5.79 billion in 2017 and is projected to grow at a CAGR of 7.63% to reach USD 8.36 billion by 2022. This growth is primarily due to the increasing emphasis on alternative energy production, increasing government mandates over energy efficiency, and growing industrialization and urbanization. Although some cost bearing constraints in the installation of variable speed generators are being observed, still emerging economies are expected to create better opportunities for the variable speed generator market for hybrid energy systems and HVAC systems. Decreasing greenfield investments is expected to be a major challenge for the growth of this market.

“The internal combustion engine segment is expected to grow at the highest CAGR.”

With regards to the prime mover segment, internal combustion engine driven variable speed generators are expected to grow at the highest CAGR during the forecast period. The market is primarily driven by the increasing investments in aerospace, marine, and shipbuilding industry. The implementation of variable speed gensets reduces the operation and maintenance cost of the internal combustion engines. These gensets

have 20-30% less fuel consumption and optimal running efficiency at variable load.

“Asia Pacific: The largest market for variable speed generators.”

Asia Pacific is expected to account for the largest market share of the global variable speed generator market in 2017. This trend is projected to continue till 2022. The increasing urbanization and industrialization in this region is leading to the higher demand for power. To cater to this demand and meet the energy efficiency mandates, APAC countries are focusing on power generation through renewable energy sources. Offshore wind forms an integral part of the renewable-based power generation. Therefore, countries such as China and Japan are moving toward offshore wind energy. Countries such as South Korea, Taiwan, and Japan are looking for alternative sources of energy to diversify their energy mixes to reduce CO₂ emissions. Technological advances and clean energy consumption would further propel wind power deployment and open up opportunities in the emerging APAC markets. Moreover, favorable supportive schemes, investments in grid infrastructure to maximize power generation from wind, and foreign direct investment would attract investors to the wind power industry. At the Asia Clean Energy Summit in Singapore, in 2017, it was noted that South-East Asia is a suitable market for renewable energy development as it offers a favorable climate for solar and wind energy generation. According to the International Energy Agency, energy demand in South-East Asia has grown by 60% over the last 15 years. Hence, increase in the consumption of energy followed by an increase in investments in renewable energy, rapid growth of data centers, and growth of IT hubs and commercial sectors such as malls and hospitals are driving the variable speed generator market in Asia Pacific.

Breakdown of Primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The distribution of primary interviews is as follows:

By Company Type: Tier 1- 17%, Tier 2- 46%, Tier 3- 37%

By Designation: C-Level- 25%, Director Level- 43%, Others- 32%

By Region: North America-27%, Europe-31%, Asia Pacific-23%, South America-6%, Middle East-10%, and Africa-3%

Some of the prominent players in the market include ABB (Switzerland), GE (US), Siemens (Germany), Wartsila (Finland), Cummins (US), and Rolls Royce (UK).

Research Coverage:

The report defines, describes, and forecasts the global variable speed generator market by generator type, technology type, prime mover, power rating, end user, and region. It also offers a detailed qualitative and quantitative analysis of the market. The report provides a comprehensive review of the major market drivers, restraints, opportunities, challenges, winning imperatives, and key issues. It also covers various important aspects of the market.

Why buy this report?

1. The report identifies and addresses key markets for variable speed generator, which would help suppliers review the growth in the demand for the product.
2. The report helps solution providers understand the pulse of the market, and provide insights into drivers, restraints, and challenges.
3. The report will help key players understand the strategies of their competitors better and will help in making strategic decisions.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 DEFINITION
- 1.3 MARKET SCOPE
 - 1.3.1 MARKETS COVERED
 - 1.3.2 REGIONAL SCOPE
 - 1.3.3 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key data from primary sources
 - 2.1.2.2 Key industry insights
 - 2.1.2.3 Breakdown of primaries
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.2 TOP-DOWN APPROACH
- 2.3 DATA TRIANGULATION
- 2.4 LIMITATIONS
- 2.5 RESEARCH ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES IN THE VARIABLE SPEED GENERATOR MARKET
- 4.2 ASIA PACIFIC VARIABLE SPEED GENERATOR MARKET SIZE, BY PLANT TYPE & BY COUNTRY
- 4.3 VARIABLE SPEED GENERATOR MARKET, BY COUNTRY
- 4.4 VARIABLE SPEED GENERATOR MARKET, BY POWER RATING

4.5 VARIABLE SPEED GENERATOR MARKET, BY GENERATOR

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Growing share of renewable power generation and increasing government mandates

5.2.1.2 Rising need for energy efficiency

5.2.1.3 Increasing urbanization and industrialization

5.2.2 RESTRAINTS

5.2.2.1 Reluctance to spend on distributed generation

5.2.3 OPPORTUNITIES

5.2.3.1 Robust growth in HVAC systems

5.2.3.2 Renovation, Modernization and Upgrading of outdated power infrastructure

5.2.3.3 Applications in hybrid energy systems

5.2.4 CHALLENGES

5.2.4.1 Decreasing greenfield investments in mining and oil & gas industry

6 VARIABLE SPEED GENERATOR MARKET, BY GENERATOR TYPE

6.1 INTRODUCTION

6.2 VARIABLE SPEED SELF EXCITED INDUCTION GENERATOR (SEIG)

6.3 DOUBLY FED INDUCTION GENERATOR (DFIG)

6.4 WOUND ROTOR INDUCTION GENERATOR (WRIG)

6.5 PERMANENT MAGNET SYNCHRONOUS GENERATOR (PMSG)

7 VARIABLE SPEED GENERATOR MARKET, BY TECHNOLOGY TYPE

7.1 INTRODUCTION

7.2 POWER ELECTRONICS-BASED VARIABLE SPEED GENERATORS

7.3 MECHANICAL VARIABLE SPEED GENERATORS

8 VARIABLE SPEED GENERATOR MARKET, BY POWER RATING

8.1 INTRODUCTION

8.2 UP TO 100 KVA

8.3 100 KVA–1 MVA

8.4 1–25 MVA

8.5 ABOVE 25 MVA

9 VARIABLE SPEED GENERATOR MARKET, BY PRIME MOVER

9.1 INTRODUCTION

9.2 HYDRO TURBINES

9.3 WIND TURBINES

9.4 STEAM & GAS TURBINES

9.5 INTERNAL COMBUSTION ENGINES

10 VARIABLE SPEED GENERATOR MARKET, BY END-USER

10.1 INTRODUCTION

10.2 RENEWABLE POWER GENERATION

10.3 HYDROELECTRIC POWER GENERATION

10.4 MARINE & SHIPBUILDING

10.5 OIL, GAS, & MINING

10.6 COMMERCIAL & RESIDENTIAL

10.7 OTHERS

11 VARIABLE SPEED GENERATOR MARKET, BY REGION

11.1 INTRODUCTION

11.2 NORTH AMERICA

11.2.1 US

11.2.2 CANADA

11.2.3 MEXICO

11.3 ASIA PACIFIC

11.3.1 CHINA

11.3.2 JAPAN

11.3.3 INDIA

11.3.4 SOUTH KOREA

11.3.5 AUSTRALIA

11.3.6 REST OF ASIA PACIFIC

11.4 EUROPE

11.4.1 GERMANY

11.4.2 UK

11.4.3 FRANCE

- 11.4.4 SPAIN
- 11.4.5 SWEDEN
- 11.4.6 NORWAY
- 11.4.7 RUSSIA
- 11.4.8 REST OF EUROPE
- 11.5 SOUTH AMERICA
 - 11.5.1 BRAZIL
 - 11.5.2 ARGENTINA
 - 11.5.3 CHILE
 - 11.5.4 REST OF SOUTH AMERICA
- 11.6 MIDDLE EAST & AFRICA
 - 11.6.1 SAUDI ARABIA
 - 11.6.2 UAE
 - 11.6.3 SOUTH AFRICA
 - 11.6.4 REST OF THE MIDDLE EAST & AFRICA

12 COMPETITIVE LANDSCAPE

- 12.1 OVERVIEW
- 12.2 RANKING OF PLAYERS & INDUSTRY CONCENTRATION, 2016
- 12.3 COMPETITIVE SCENARIO
 - 12.3.1 CONTRACTS & AGREEMENTS
 - 12.3.2 NEW PRODUCT LAUNCHES
 - 12.3.3 MERGERS & ACQUISITIONS
 - 12.3.4 PARTNERSHIPS

13 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View)*

- 13.1 BENCHMARKING
- 13.2 ABB
- 13.3 SIEMENS
- 13.4 YANMAR
- 13.5 GE
- 13.6 WHISPERPOWER
- 13.7 ROLLS ROYCE
- 13.8 WARTSILA

13.9 INNOVUS POWER

13.10 CUMMINS

13.11 AUSONIA

13.12 GENERAC

13.13 ATLAS COPCO

13.14 FISCHER PANDA

*Details on Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View might not be captured in case of unlisted companies.

14 APPENDIX

14.1 INSIGHTS OF INDUSTRY EXPERTS

14.2 DISCUSSION GUIDE

14.3 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

14.4 INTRODUCING RT: REAL-TIME MARKET INTELLIGENCE

14.5 AVAILABLE CUSTOMIZATIONS

14.6 RELATED REPORTS

14.7 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

Table 1 VARIABLE SPEED GENERATOR MARKET SNAPSHOT

Table 2 COMPARISON BETWEEN CONSTANT SPEED GENERATORS & VARIABLE SPEED GENERATORS

Table 3 GLOBAL WEIGHTED AVERAGE RENEWABLE INVESTMENT COSTS, 2015 & 2025

Table 4 URBAN POPULATION, PROPORTION URBAN, & AVERAGE ANNUAL RATE OF CHANGE OF THE PROPORTION URBAN, BY REGION, 1990, 2014, 2050

Table 5 VARIABLE SPEED GENERATOR MARKET SIZE, BY GENERATOR TYPE, 2015–2022 (USD MILLION)

Table 6 SEIG: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 7 DFIG: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 8 WRIG: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 9 PMSG: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 10 VARIABLE SPEED GENERATOR MARKET SIZE, BY GENERATOR TYPE, 2015–2022 (USD BILLION)

Table 11 POWER ELECTRONICS-BASED VARIABLE SPEED GENERATORS MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 12 MECHANICAL VARIABLE SPEED GENERATORS MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 13 VARIABLE SPEED GENERATOR MARKET SIZE, BY POWER RATING, 2015–2022 (USD BILLION)

Table 14 UP TO 100 KVA: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 15 100 KVA–1 MVA: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 16 1–25 MVA: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 17 ABOVE 25 MVA: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 18 VARIABLE SPEED GENERATOR MARKET SIZE, BY PRIME MOVER, 2015–2022 (USD MILLION)

Variable Speed Generator Market by Type (Permanent Magnet, Doubly Fed Induction, Self-Excitation Induction, Wo...

Table 19 HYDRO TURBINES: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 20 WIND TURBINES: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 21 STEAM & GAS TURBINES: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 22 INTERNAL COMBUSTION ENGINES: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 23 INTERNAL COMBUSTION ENGINES: VARIABLE SPEED GENERATOR MARKET SIZE, BY POWER RATING, 2015–2022 (USD MILLION)

Table 24 INTERNAL COMBUSTION ENGINES: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 25 VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 26 RENEWABLE POWER GENERATION: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 27 HYDROELECTRIC POWER GENERATION: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 28 MARINE & SHIPBUILDING: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 29 OIL, GAS, & MINING: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 30 COMMERCIAL & RESIDENTIAL: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 31 OTHERS: VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 32 VARIABLE SPEED GENERATOR MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 33 NORTH AMERICA: VARIABLE SPEED GENERATOR MARKET SIZE, BY COUNTRY, 2015–2022 (USD MILLION)

Table 34 NORTH AMERICA: INTERNAL COMBUSTION ENGINE-BASED VARIABLE SPEED GENERATOR MARKET SIZE, BY COUNTRY, 2015–2022 (USD MILLION)

Table 35 NORTH AMERICA: INTERNAL COMBUSTION ENGINE-BASED VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 36 US: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 37 CANADA: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 38 MEXICO: VARIABLE SPEED GENERATOR MARKET SIZE, BY END USER,

2015–2022 (USD MILLION)

Table 39 ASIA PACIFIC: VARIABLE SPEED GENERATOR MARKET SIZE, BY COUNTRY, 2015–2022 (USD MILLION)

Table 40 ASIA PACIFIC: INTERNAL COMBUSTION ENGINE-BASED VARIABLE SPEED GENERATOR MARKET SIZE, BY COUNTRY, 2015–2022 (USD MILLION)

Table 41 ASIA PACIFIC: INTERNAL COMBUSTION ENGINE-BASED VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 42 CHINA: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 43 JAPAN: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 44 INDIA: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 45 SOUTH KOREA: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 46 AUSTRALIA: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 47 REST OF ASIA PACIFIC: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 48 EUROPE: VARIABLE SPEED GENERATOR MARKET SIZE, BY COUNTRY, 2015–2022 (USD MILLION)

Table 49 EUROPE: INTERNAL COMBUSTION ENGINE-BASED VARIABLE SPEED GENERATOR MARKET SIZE, BY COUNTRY, 2015–2022 (USD MILLION)

Table 50 EUROPE: INTERNAL COMBUSTION ENGINE-BASED VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 51 GERMANY: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 52 UK: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 53 FRANCE: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 54 SPAIN: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 55 SWEDEN: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 56 NORWAY: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 57 RUSSIA: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 58 REST OF EUROPE: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 59 SOUTH AMERICA: VARIABLE SPEED GENERATOR MARKET SIZE, BY COUNTRY, 2015–2022 (USD MILLION)

Table 60 BRAZIL: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 61 ARGENTINA: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 62 CHILE: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 63 REST OF SOUTH AMERICA: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 64 MIDDLE EAST & AFRICA: VARIABLE SPEED GENERATOR MARKET SIZE, BY COUNTRY, 2015–2022 (USD MILLION)

Table 65 SAUDI ARABIA: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 66 UAE: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 67 SOUTH AFRICA: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 68 REST OF THE MIDDLE EAST & AFRICA: VARIABLE SPEED GENERATOR MARKET SIZE, BY END-USER, 2015–2022 (USD MILLION)

Table 69 MARKET DEVELOPMENTS BETWEEN 2014 & 2017

List Of Figures

LIST OF FIGURES

Figure 1 RESEARCH DESIGN

Figure 2 BOTTOM-UP APPROACH

Figure 3 TOP-DOWN APPROACH

Figure 4 ASIA PACIFIC IS ESTIMATED TO HOLD THE LARGEST SHARE OF THE VARIABLE SPEED GENERATOR MARKET IN 2017

Figure 5 THE RENEWABLE POWER GENERATION SEGMENT IS EXPECTED TO DOMINATE THE MARKET DURING THE FORECAST PERIOD

Figure 6 THE INTERNAL COMBUSTION ENGINE SEGMENT IS EXPECTED TO GROW AT THE HIGHEST CAGR DURING THE FORECAST PERIOD

Figure 7 THE 100 KVA–1MVA SEGMENT IS EXPECTED TO DOMINATE THE VARIABLE SPEED GENERATOR MARKET DURING THE FORECAST PERIOD

Figure 8 THE PERMANENT MAGNET SYNCHRONOUS GENERATOR IS EXPECTED TO DOMINATE THE VARIABLE SPEED GENERATOR MARKET DURING THE FORECAST PERIOD

Figure 9 THE POWER ELECTRONICS-BASED VARIABLE SPEED GENERATOR IS EXPECTED TO DOMINATE THE MARKET DURING THE FORECAST PERIOD

Figure 10 RISE IN ALTERNATIVE ENERGY PROGRAMS IS EXPECTED TO DRIVE THE VARIABLE SPEED GENERATOR MARKET DURING THE FORECAST PERIOD

Figure 11 THE RENEWABLE POWER GENERATION SEGMENT & THE CHINESE MARKET HELD THE MAXIMUM SHARE OF THE VARIABLE SPEED GENERATOR MARKET IN ASIA PACIFIC IN 2016

Figure 12 THE US HELD THE LARGEST SHARE IN 2016

Figure 13 THE 100 KVA–1 MVA SEGMENT IS EXPECTED TO HAVE THE LARGEST MARKET SHARE BY 2022

Figure 14 THE PERMANENT MAGNET SYNCHRONOUS GENERATOR IS EXPECTED TO LEAD THE VARIABLE SPEED GENERATOR MARKET DURING THE FORECAST PERIOD

Figure 15 VARIABLE SPEED GENERATORS: DRIVERS, RESTRAINTS, OPPORTUNITIES, & CHALLENGES

Figure 16 RESIDENTIAL & COMMERCIAL BUILDINGS TOTAL ENERGY END-USE (2015)

Figure 17 THE PERMANENT MAGNET SYNCHRONOUS GENERATORS SEGMENT IS EXPECTED TO HOLD THE LARGEST MARKET SHARE BY 2022

Figure 18 THE POWER ELECTRONICS-BASED VARIABLE SPEED GENERATORS SEGMENT IS EXPECTED TO HOLD THE LARGEST MARKET SHARE BY 2022

Figure 19 THE 100 KVA–1 MVA VARIABLE SPEED GENERATOR SEGMENT IS EXPECTED TO HOLD THE LARGEST MARKET SHARE BY 2022

Figure 20 THE WIND TURBINES SEGMENT IS EXPECTED TO HOLD THE LARGEST MARKET SHARE BY 2022

Figure 21 RENEWABLE POWER GENERATION IS EXPECTED TO HOLD THE LARGEST MARKET SHARE BY 2022

Figure 22 REGIONAL SNAPSHOT: THE MARKET IN EUROPE IS EXPECTED TO GROW AT THE HIGHEST CAGR DURING THE FORECAST PERIOD

Figure 23 VARIABLE SPEED GENERATOR MARKET SHARE, BY REGION, 2016

Figure 24 ASIA PACIFIC: MARKET SNAPSHOT

Figure 25 EUROPE: MARKET SNAPSHOT

Figure 26 KEY DEVELOPMENTS IN THE VARIABLE SPEED GENERATOR MARKET, 2014–2017

Figure 27 GENERAL ELECTRIC LED THE VARIABLE SPEED GENERATOR MARKET IN 2016

Figure 28 ABB: COMPANY SNAPSHOT

Figure 29 SIEMENS: COMPANY SNAPSHOT

Figure 30 YANMAR: COMPANY SNAPSHOT

Figure 31 GE: COMPANY SNAPSHOT

Figure 32 ROLLS ROYCE: COMPANY SNAPSHOT

Figure 33 WARTSILA: COMPANY SNAPSHOT

Figure 34 CUMMINS: COMPANY SNAPSHOT

Figure 35 GENERAC: COMPANY SNAPSHOT

Figure 36 ATLAS COPCO: COMPANY SNAPSHOT

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