

# Analyzing the Global Wind Turbine Market 2015

<https://marketpublishers.com/r/A224D1CBFFEEN.html>

Date: November 2015

Pages: 215

Price: US\$ 1,250.00 (Single User License)

ID: A224D1CBFFEEN

## Abstracts

Wind generation has been growing at a healthy average globally over the last few years, triggered by the fact that more and more countries are realizing the value of wind energy as a low cost, clean source for electricity. This has helped create major new business opportunities for manufacturing and materials innovation in this sector. Driving the wind industry forward is political action in response to climate change.

For the last ten years global wind turbine sales have grown approximately by nearly 30% annually and wind power is now the world's fastest growing source of energy. For the next twenty years it is expected to expand at double-digit rates.

The global wind turbine market is dominated by a small number of original equipment manufacturers (OEMs), but market competition is increasing as new OEMs enter the industry. Manufacturers are developing the next generation of wind turbines in the US and Europe. Government support of markets in Europe, India, China and other emerging markets has been largely responsible for burgeoning sales, providing manufacturers with cash flow to conduct private development efforts. European manufacturers currently supply most of the world market for utility-scale wind turbines and therefore provide the majority of the private investment in research and development.

The report begins with an introduction to wind power and looks at wind power technology, electricity generation from wind and accommodating the variable nature of wind power.

We analyze the wind turbine industry through the importance of wind power, evolution of wind turbine industry, market overview, global wind power industry statistics, and an analysis of the global offshore wind power industry through a regional breakdown.

Analyzing the Global Wind Turbine Market also analyzes wind turbine technology through generation technology, weight and cost, offshore wind turbine technology and the expected evolution in wind turbine technology.

Operation and maintenance of wind turbines is analyzed in the report along with the materials used in current wind turbines. The report also looks at the power and size of wind turbines along with a look at small wind systems, large wind turbines, mega wind turbines as well as micro wind turbines.

Moving on, we analyze how a wind turbine works through an analysis of the components of wind turbines, production methods, architecture of a modern wind turbine and design drivers for modern wind turbine technology.

A section is dedicated to the analysis of small wind turbines that looks at markets and applications for small wind turbines, commercial small wind turbine technology, isolated applications, hybrid systems, grid-connected systems and applications, technology trends along with recent developments.

Global wind turbine industry market facts are analyzed along with key market trends, demand side statistics and other factors. The report also analyzes the impact of the credit crunch on the global wind turbine industry as well as a cost analysis of wind turbines.

Wind turbine market opportunities in Europe, United States, China and India are looked at in the report.

We also analyze the industry trends such as competitive trends, trend of globalization, factors affecting wind turbine demand, primary customers for wind turbines, etc.

An analysis of the wind turbine supply chain looks at the current situation and specific conclusions for key components and materials in the supply chain through blades, gearboxes, electric generators, large bearings, power converters, power transformers, castings and forgings. OEMs in the wind turbine supply chain are also analyzed in the report.

A forecast for the global wind turbine market and wind power industry through future technology trends and a region-wise forecast is included in the report.

An analysis of the leading industry players segmented by global manufacturers of wind

turbine generators, global gear box makers, global generator makers and global wind turbine blade manufacturers is provided in this report. Some of the major players analyzed in the report include ABB Ltd., Acciona, Enercon, Nordex, Suzlon Energy, Vestas Wind Systems, Xinjiang Goldwind Science & Tech Co Ltd, amongst many others.

## Contents

### **A. EXECUTIVE SUMMARY**

### **B. INTRODUCTION TO WIND POWER**

#### B.1 A Clean Green Energy – Wind Power

##### B.1.1 What is Wind Power?

##### B.1.2 How does it Work?

#### B.2 Electricity from Wind

#### B.3 How do Wind Turbines Work?

#### B.4 Wind Power Technology

#### B.5 Wind Power Markets

#### B.6 Accommodating the Variable Nature of Wind Power

### **C. LOOKING AT THE WIND TURBINE INDUSTRY**

#### C.1 Importance of Wind Power

#### C.2 Evolution of the Wind Turbine Industry

##### C.2.1 Technical Challenge of a Unique Technology

##### C.2.2 Aerodynamic Stall

##### C.2.3 Fatigue Cycles

##### C.2.4 Development of Commercial Technology

#### C.3 Market Overview

#### C.4 Global Wind Power Industry

#### C.5 Global Offshore Wind Power Industry

##### C.5.1 Overview

##### C.5.2 Asia

##### C.5.3 Europe

##### C.5.4 United States

##### C.5.5 Role of Utilities in Offshore Wind

##### C.5.6 Supply Challenges

### **D. LOOKING AT THE WIND TURBINE TECHNOLOGY**

#### D.1 Introduction

#### D.2 Expected Technology Evolution

#### D.3 Generation Technology

#### D.4 Weight and Cost

D.5 Offshore Wind Turbine Technology

## **E. OPERATION AND MAINTENANCE OF WIND TURBINES**

E.1 Wind Turbines and Wind Speed

E.2 Wind Turbine Availability

E.3 Stand-alone and Grid-connected Small Wind Turbines

## **F. MATERIALS USED IN CURRENT WIND TURBINES**

F.1 Market Overview

F.2 Future Component Development

## **G. WIND TURBINES: POWER AND SIZE**

G.1 Overview

G.2 Small Wind Systems

G.2.1 Home Average Needs & Wind Turbine Production

G.3 Large Wind Turbines

G.4 Mega Wind Turbines Power

G.5 Micro Wind Turbines

G.5 Number of Wind Turbines Required

## **H. HOW DOES A WIND TURBINE WORK?**

H.1 Components of Wind Turbines

H.1.1 Sub Components

H.2 Production Methods

H.3 Raw Materials

H.4 Architecture of a Modern Wind Turbine

H.5 Design Drivers for Modern Technology

## **I. ANALYSIS OF SMALL WIND TURBINES**

I.1 Overview

I.2 Markets and Applications for Small Wind Turbines

I.3 Evolution of Commercial SWT Technology

I.4 Isolated Applications

I.5 Very Small Systems

- I.6 Hybrid Systems
- I.7 Wind-Diesel Systems
- I.8 Grid-Connected Applications
- I.9 Market Development
- I.10 Grid-Connected Systems
- I.11 Technology Trends and Recent Developments

## **J. MARKET FACTS**

- J.1 Overview
- J.2 Key Market Trends
- J.3 Demand Side
- J.4 Offshore Market
- J.5 Trends in Established Markets

## **K. IMPACT OF THE CREDIT CRUNCH ON THE GLOBAL WIND TURBINE INDUSTRY**

## **L. WIND TURBINE COST ANALYSIS**

- L.1 Cost Analysis of a Wind Farm
- L.2 Impacts on Cost
- L.3 Conclusion

## **M. WIND TURBINE MARKET OPPORTUNITIES**

- M.1 Specific Markets
  - M.1.1 Europe
  - M.1.2 United States
  - M.1.3 China
  - M.1.4 India
- M.2 Opportunities in Wind Technology

## **N. ANALYZING INDUSTRY TRENDS**

- N.1 Competitive Trends
  - N.1.1 Market Players
  - N.1.2 Large Turbine Manufacturers
- N.2 Looking at Tariff Measures

- N.2.1 U.S. Tariff and Nontariff Measures
- N.2.2 Foreign Tariff Measures
- N.3 Trend of Globalization
- N.4 Primary Customers for Wind Turbines
- N.5 Factors Affecting Wind Turbine Demand

## **O. ANALYZING THE WIND TURBINE SUPPLY CHAIN**

- O.1 Current Situation
- O.2 Specific Conclusions for Key Components and Materials in the Supply Chain
  - O.2.1 Blades
  - O.2.2 Gearboxes
  - O.2.3 Electric Generators
  - O.2.4 Large Bearings
  - O.2.5 Power Converters
  - O.2.6 Power Transformers
  - O.2.7 Castings
  - O.2.8 Forgings
- O.3 OEM's in the Wind Turbine Supply Chain
  - O.3.1 Nacelle Components

## **P. ANALYZING STRATEGY PROFILES**

- P.1 Overview
- P.2 Blade Manufacturers
- P.3 Gearbox Suppliers
- P.4 Tower Manufacturers
- P.5 Research and Development

## **Q. MARKET FORECAST**

- Q.1 Future Perspective
- Q.2 Future Technology Trends
  - Q.2.1 Blade and Rotor Design
  - Q.2.2 Generator
  - Q.2.3 Manufacturing Specializations
  - Q.2.4 Concentration of Manufacturers
  - Q.2.5 Off-Grid
  - Q.2.6 Grid Connected

## **R. LEADING INDUSTRY PLAYERS**

### **R.1 Global Wind Turbine Generators**

- R.1.1 Acciona
- R.1.2 Enercon
- R.1.3 Gamesa Corporacion Tecnologica SA
- R.1.4 General Electric Company
- R.1.5 Nordex SE
- R.1.6 RWE AG
- R.1.7 Siemens
- R.1.8 Suzlon Energy Limited
- R.1.9 Vestas Wind Systems A/S
- R.1.10 Xinjiang Goldwind Science & Tech Co Ltd

### **R.2 Global Gear Box Makers**

- R.2.1 Bosch Rexroth
- R.2.2 China High Speed Transmission Equipment Group
- R.2.3 CSIC (Chongqing) Haizhuang Windpower Equipment Co., Ltd. (CSIC)
- R.2.4 Emergya Wind Technologies B.V.
- R.2.5 Guodian United Power Technology Co., Ltd.
- R.2.6 Inox Wind
- R.2.7 Ishibashi Manufacturing Co., Ltd.
- R.2.8 Lagerwey Wind BV
- R.2.9 Leitwind
- R.2.10 Moventas Santasalo Oy
- R.2.11 Regen Powertech
- R.2.12 Renk AG
- R.2.13 STX Windpower BV
- R.2.14 Vensys Energy
- R.2.15 XEMC Windpower

### **R.3 Global Generator Makers**

- R.3.1 ABB
- R.3.2 ELIN Motoren
- R.3.3 Leroy-Somer Holding
- R.3.4 Shanghai Electric
- R.3.5 Winergy AG
- R.3.6 Yongji Xinshisu Electric Equipment Co., Ltd

### **R.4 Global Blade Manufacturers**

- R.4.1 Euros GmbH



R.4.2 Lianyungang Zhongfu Lianzhong Composites Group Co., Ltd.

R.4.3 LM Wind Power

R.4.4 Senvion SE

## **T. GLOSSARY OF TERMS**

## List Of Figures

### LIST OF FIGURES

- Figure 1: Top 10 Cumulative Capacity as of Dec 2014
- Figure 2: Top 10 New Installed Capacity Jan-Dec 2014
- Figure 3: Global Annual Installed Wind Capacity 1997-2014
- Figure 4: Global Cumulative Installed Wind Capacity 1997-2014
- Figure 5: Annual Installed Capacity by Region 2006-2014
- Figure 6: Annual Offshore Wind Capacity Installations in Europe in 2014 (in MW)
- Figure 7: Share of Wind Turbine Manufacturers' at end of 2014 (in MW)
- Figure 8: Global Offshore Installed Base Market Share 2014
- Figure 9: Growth in Size of Commercial Wind Turbine Designs
- Figure 10: Historical Development of Wind Turbines by Size
- Figure 11: Major Components of a Wind Turbine
- Figure 12: Wind Turbine Technology Evolution
- Figure 13: Factors Driving Evolution & Innovation in Wind Turbine Design
- Figure 14: Wind Speed Scale
- Figure 15: Typical Power Curve of a Wind Turbine
- Figure 16: How a Wind Turbine Comes Together
- Figure 17: Wind Turbine Major Components
- Figure 18: Schematic of Wind Turbine Major Subcomponents
- Figure 19: Typical Nacelle Layout of a Modern Wind Turbine
- Figure 20: Ecotecnia 100 Nacelle Layout
- Figure 21: Vestas V90 Nacelle Layout
- Figure 22: Global Wind Turbine Market Share, by OEM, 2014
- Figure 23: Global Wind Energy in MW of Added Capacity per Year
- Figure 24: Global Turbine Manufacturing Trends Overview by Region
- Figure 25: Share of New Wind Power Installations in the EU (in MW), 2014
- Figure 26: Market Share of Large Turbine Manufacturers
- Figure 27: Wind Power Turbine Value Chain
- Figure 28: Wind Power Industry Value Chain Segmentation
- Figure 29: Wind Turbine Production Process
- Figure 30: Wind Turbine Component Supply Overview
- Figure 31: Vertical Integration, Blade Manufacturing
- Figure 32: Vertical Integration, Gearbox and Generator Manufacturing
- Figure 33: Vertical Integration, Tower Manufacturing
- Figure 34: Total Installed Wind Capacity 1997-2020 (MW)
- Figure 35: REDULUS GPV Gearbox by Bosch Rexroth

Figure 36: Gearbox REDULUS GPV-D by Bosch Rexroth

## List Of Tables

### LIST OF TABLES

Table 1: Emissions Factors of Gas, Coal and Wind Technologies (lb/MWh)

Table 2: Upcoming Offshore Wind Power Projects in Japan

Table 3: Wind Farms and Turbines Connected to the Grid at end of 2014 in Europe

Table 4: Turbine Component Weight and Cost

Table 5: Percentage of Materials Used in Current Wind Turbine Component

Table 6: Wind Turbine Raw Materials, % by Weight, including Blades & Towers

Table 7: Classification of Small Wind Turbines

Table 8: Applications for Small Wind Turbines

Table 9: Cost Analysis of a Wind Farm

Table 10: Cost Breakdown by Components of a Wind Turbine

Table 11: Large-scale Wind Turbines Newly Developed in Europe

Table 12: Power Range of Global Newly-installed Wind Turbines in 2010

Table 13: Wind-turbines & Components: Harmonized Tariff Schedule Subheading, Description & Column 1 Rate of Duty as of January 31, 2009

Table 14: Applied Tariff Rates, Wind-Powered Generating Sets, 2008 unless Otherwise Noted

Table 15: Wind Turbine Bound and Applied Tariff Rates, by Income Level, Percent

Table 16: Global Production Locations of Major Turbine Manufacturers

Table 17: Major Turbines Developed by Enercon

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