

Growth Opportunities in Global Wind Operation and Maintenance Services Market 2013?2018: Trends, Forecast, and Opportunity Analysis

<https://marketpublishers.com/r/G8B987B8A50EN.html>

Date: August 2013

Pages: 175

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

ID: G8B987B8A50EN

Abstracts

The global wind operation and maintenance market is set to expand with stable demand potential in the near future. The wind operation service market accounted for more than 20% and the wind maintenance service market accounted for more than 75% of the global wind operation and maintenance market in 2012. The three main components of wind turbines, gearbox, generator, and wind blades account for more than 50% of repair and replacement servicing needs. According to market forecasts, the global wind operation and maintenance market is expected to reach \$14,014 million by 2018. Lucintel, a leading global management consulting and market research firm, has conducted a competitive analysis on this market and presents its findings in "Growth Opportunities in Global Wind Operation and Maintenance Services Market 2013?2018: Trends, Forecast, and Opportunity Analysis" This study provides a concise overview of the global wind operation and maintenance market in terms of value and projected annual growth.

Lucintel discusses the various challenges and opportunities faced by the wind operation and maintenance market. Efficient and timely operation and maintenance servicing has a positive impact, both on reducing repair costs and improved performance output of large machines. In this market, it is very critical to have ready inventory of spare parts or a strong supply chain that can respond to the repair needs when they occur. Lucintel's study encompasses the major drivers. Mostly, aging wind turbines cause unexpected failure of components, such as gearboxes, generators, and rotor blades which is a major driver for wind operation and maintenance costs. So, improving turbine reliability is a priority for the manufacturers.

This report highlights different aspects of the wind operation and maintenance market.

Due diligence has been given to the current market scenario. Europe is the leader in this market with the highest market share, followed by APAC. The global wind operation and maintenance market is expected to grow significantly in near future. The top players need to formulate effective marketing strategies to take advantage of the opportunities, resulting in improved revenue and profitability.

This unique report from Lucintel will provide you with valuable information, insights, and tools needed to identify new growth opportunities and operate your business successfully in this market. This report will save hundreds of hours of your own personal research time and will significantly benefit you in expanding your business in this market. In today's stringent economy, you need every advantage that you can find.

Features of This Report:

To make any investment, business or strategic decisions, you need timely and accurate information. This market report fulfills this core need. This is an indispensable reference guide for O&M service providers, Wind farm Operators, Energy Utility companies, Investors, researchers, engineers, distributors and many more, who participate in the wind energy industry.

Some of the key features of Growth Opportunities in Global Wind Operation and Maintenance Services Market 2013?2018: Trends, Forecast, and Opportunity Analysis market report are:

The wind O&M market by the key regions of North America, Europe, Asia Pacific and Rest of the World in terms of value with detail country analysis of USA, China and India.

The wind O&M market size estimates 2007-2012 and forecasts of the market for 2013 to 2018 by type of service (operations and maintenances) and region in terms of value

Wind O&M market by type of service providers (OEM, ISP, In-house) in each region

Market share of key ISPs

Regional cost structure (%) of wind O&M market by the key regions of North America, Europe, and Asia Pacific

Global wind O&M market profit margin (%) - 2007-2012

Typical wind O&M activities for gearbox, generator and blade

Market outlook and insights that will help develop competitive business strategies

Strengths and Challenges for OEMs, ISPs and In-house service providers

Emerging trends of the global wind O&M industry

Strategic recommendations for each type of service providers

Unmet needs in wind O&M market

Growth opportunity in wind operation and maintenance market by region

Contents

1. EXECUTIVE SUMMARY

2. THE WIND O&M MARKET BACKGROUND AND CLASSIFICATIONS

2.1: Defining the operation and maintenance (O&M) market

2.1.1: Operation cost

2.1.1.1: Salary-based Labor

2.1.1.2: Site maintenance

2.1.1.3: Equipment and supplies

2.1.2: Maintenance cost

2.1.2.1: Preventive maintenance

2.1.2.2: Wage based labor

2.1.2.3: Repair and replacement

2.2: Typical operation and maintenance activities of turbine components

2.2.1: Components failure

2.2.2: Time to repair

2.2.3: Cranes

2.3: Wind operation and maintenance market by components

2.3.1: Gearbox O&M services

2.3.1.1: Typical Gearbox O&M activities

2.3.1.2: Causes of Gearbox failure

2.3.1.3: Challenge analysis- Gearbox O&M

2.3.2: Generator O&M services

2.3.2.1: Typical wind generator O&M activities

2.3.2.2: Causes of generator failure

2.3.3: Blade O&M services

2.3.3.1: Typical blade maintenance activities

2.3.3.2: Wind blade repair activities

2.3.3.3: Common causes of blade damage

2.4: Dynamics of O&M cost estimation

2.4.1: Age of turbine

2.4.2: Wind farm project size

2.4.3: Environment conditions

2.4.4: Direct Costs

2.4.4.1: Crane cost

2.4.4.2: Labor cost

2.4.4.3: Accessibility to the wind farm

2.5: Wind energy supply chain 3. Global Wind Operation and Maintenance Service Market Analysis 2012

3.1: Global wind operation and maintenance market analysis

3.1.1: Global wind energy overview

3.1.2: Global wind operation and maintenance market

3.1.2.1: Global wind operation and maintenance market by type of service

3.1.2.2: Global wind operation and maintenance market by region

3.2: European wind operation and maintenance market analysis

3.2.1: European wind energy overview

3.2.2: European wind operation and maintenance market

3.2.2.1: European wind operation market breakdown

3.2.2.2: European wind maintenance market breakdown

3.3: North American wind operation and maintenance market analysis

3.3.1: North America wind energy overview

3.3.2: North American wind operation and maintenance market

3.3.2.1: North American wind operation market breakdown

3.3.2.2: North American wind maintenance market breakdown

3.3.3: The US wind operation and maintenance market analysis

3.3.3.1: The US wind energy overview

3.3.3.2: The US wind operation and maintenance market

3.3.3.2.1: The US wind operation market breakdown

3.3.3.2.2: The US wind maintenance market breakdown

3.4: APAC wind operation and maintenance analysis

3.4.1: APAC wind energy overview

3.4.2: APAC wind operation and maintenance market

3.4.2.1: APAC wind operation market breakdown

3.4.2.2: APAC wind maintenance market breakdown

3.4.3: China wind operation and maintenance market analysis

3.4.3.1: China wind energy overview

3.4.3.2: China wind operation and maintenance market

3.4.3.2.1: China wind operation market breakdown

3.4.3.2.2: China wind maintenance market breakdown

3.4.4: India wind operation and maintenance market analysis

3.4.4.1: India wind energy overview

3.4.4.2: Indian wind operation and maintenance market

3.4.4.2.1: Indian wind operation market breakdown

3.4.4.2.2: Indian wind maintenance market breakdown

3.5: ROW wind operation and maintenance analysis

3.5.1: ROW wind energy overview

- 3.5.2: ROW wind operation and maintenance market
 - 3.5.2.1: ROW wind operation market breakdown
 - 3.5.2.2: ROW wind maintenance market breakdown
- 3.6: Global wind operation and maintenance market by type of service provider
 - 3.6.1: European wind operation and maintenance market by service providers
 - 3.6.2: North American wind operation and maintenance market by service providers
 - 3.6.3: APAC wind operation and maintenance market by service providers
- 3.7: Competitive analysis of global key independent service providers
- 3.8: Benchmarking of O&M service providers in Germany
- 3.9: Service provider selection criteria
- 3.10: Strengths and challenges of Wind O&M service providers
 - 3.10.1: Original equipment manufacturers (OEMs)
 - 3.10.2: Independent service providers (ISPs)
 - 3.10.3: In-house service teams

4. GLOBAL WIND OPERATION AND MAINTENANCE SERVICE MARKET TREND ANALYSIS 2007-2012

- 4.1: Global wind operation and maintenance market trend 2007-2012
- 4.2: European wind operation and maintenance market trend
- 4.3: North American wind operation and maintenance market trend
 - 4.3.1: US wind operation and maintenance market trend
- 4.4: APAC wind operation and maintenance market trend
 - 4.4.1: China wind operation and maintenance market trend
 - 4.4.2: India wind operation and maintenance market trend
- 4.5: ROW wind operation and maintenance market trend
- 4.6: Gross, operational, and net profit margin trend of global wind operation and maintenance market 2007-2012
- 4.7: Cost structure trend of global wind operation and maintenance market 2007-2012

5. GLOBAL WIND OPERATION AND MAINTENANCE SERVICE MARKET FORECAST ANALYSIS 2013-2018

- 5.1: Global wind operation and maintenance market forecast (2013-2018)
 - 5.1.1: Global wind operation and maintenance market forecast by region
 - 5.1.2: Global Wind O&M Market Forecast by Type of Service from 2013-18
- 5.2: European wind operation and maintenance market forecast
- 5.3: North American wind operation and maintenance market forecast
 - 5.3.1: The US wind operation and maintenance market forecast

- 5.4: APAC wind operation and maintenance market forecast
 - 5.4.1: China wind operation and maintenance market forecast
 - 5.4.2: India wind operation and maintenance market forecast
- 5.5: ROW wind operation and maintenance market forecast
- 5.6: Drivers and challenges of wind O&M market
- 6. New Opportunities and Emerging Trends in Global Wind Operation and Maintenance Service market
 - 6.1: Growth opportunities in global wind operation and maintenance services market
 - 6.2: Emerging trends in global wind operation and maintenance market
 - 6.3: Strategic analysis for wind operation and maintenance service
 - 6.3.1: Recommended strategy for building in-house service teams
 - 6.3.1.1: Parts and suppliers
 - 6.3.1.2: Proactive monitoring techniques
 - 6.3.1.3: Process documentation
 - 6.3.1.4: Training of personnel
 - 6.3.1.5: Partial agreement with ISPs
 - 6.3.2: Recommended strategy for independent service providers
 - 6.3.2.1: Preferred service provider partnership with OEMs
 - 6.3.2.2: Train and build a strong team of skilled and experience technicians
 - 6.3.2.3: Full service agreements
 - 6.3.2.4: Logistics and supply chain networks
 - 6.3.2.5: Customized services
 - 6.3.3: Recommended strategy for original equipment manufacturers (OEMs)
 - 6.3.3.1: Investment in turbine design development
 - 6.3.3.2: Training of skilled workforce
 - 6.3.3.3: Focus on customer satisfaction
 - 6.3.3.4: Leverage technology expertise
 - 6.3.3.5: Expanding warranty periods
 - 6.4: Approaches for reducing wind O&M costs
 - 6.4.1: Condition monitoring
 - 6.4.2: Aftermarket components
 - 6.4.3: Recordkeeping
 - 6.4.4: Assign tasks to outside services
 - 6.4.5: Innovative rigging and tooling
 - 6.5: Unmet need in global wind operation and maintenance market
- 7. Appendix
 - 7.1 List of raw material suppliers
 - 7.2 List of design and development services providers
 - 7.3 List of gearbox suppliers

- 7.4 List of bearings suppliers
- 7.5 List of tower suppliers
- 7.6 List of generator and power converter suppliers
- 7.7 List of wind blade suppliers
 - 7.7.1 Europe wind blade suppliers
 - 7.7.2 North America wind blade suppliers
 - 7.7.3 APAC and ROW wind blade suppliers
- 7.8 List of wind turbine OEMs
 - 7.8.1 Europe wind turbine OEMs
 - 7.8.2 North America wind turbine OEMs
 - 7.8.3 APAC and ROW wind turbine OEMs
- 7.9 List of electronic equipment suppliers
- 7.10 Operational and maintenance service providers
 - 7.10.1 European O&M service providers
 - 7.10.2 North America O&M service providers
 - 7.10.3 APAC and ROW O&M service providers
- 7.11 List of Construction companies

List Of Figures

LIST OF FIGURES

CHAPTER 1. EXECUTIVE SUMMARY

Figure 1.1: Porter's Five Forces Analysis model for the global wind O&M market

CHAPTER 2. The Wind O&M Market Background and Classifications

Figure 2.1: Lucintel's wind operation and maintenance cost architecture

Figure 2.2: Wind operation cost overview

Figure 2.3: Wind maintenance overview

Figure 2.4: Wind operation and maintenance cost overview

Figure 2.5: Wind maintenance cost breakdown by major components

Figure 2.6: Photo of gearbox bearing failure

Figure 2.7: Photo of gearbox bearing failure

Figure 2.8: Photo of grinding temper

Figure 2.9: Photo of broken tooth

Figure 2.10: Photo of gearbox failure

Figure 2.11: Photo of blade manufacturing failure

Figure 2.12: Photo of blade failure

Figure 2.13: Photo of blade failure

Figure 2.14: Photo of blade failure

Figure 2.15: Photo of gearbox failure

Figure 2.16: Photo of blade failure

Figure 2.17: Photo of crane

Figure 2.18: Photo of crane

Figure 2.19: Global wind energy supply chain

Figure 2.20: Wind energy market value chain

CHAPTER 3. Global Wind Operation and Maintenance Service Market Analysis 2012

Figure 3.1: Global wind operation and maintenance market in 2012 by type of service

Figure 3.2: Global wind operation and maintenance market flowchart in 2012

Figure 3.3: Global wind operation and maintenance market in 2012 by region

Figure 3.4: European wind operation and maintenance market in 2012

Figure 3.5: European wind operation market in 2012

Figure 3.6: European wind maintenance market in 2012
Figure 3.7: North American wind operation and maintenance market in 2012
Figure 3.8: North American wind operation market in 2012
Figure 3.9: North American wind maintenance market in 2012
Figure 3.10: The US wind operation and maintenance market in 2012
Figure 3.11: The US wind operation market in 2012
Figure 3.12: The US wind maintenance market in 2012
Figure 3.13: APAC wind operation and maintenance market in 2012
Figure 3.14: APAC wind operation market in 2012
Figure 3.15: APAC wind maintenance market in 2012
Figure 3.16: China wind operation and maintenance market in 2012
Figure 3.17: China wind operation market in 2012
Figure 3.18: China wind maintenance market in 2012
Figure 3.19: Indian wind operation and maintenance market in 2012
Figure 3.20: Indian wind operation market in 2012
Figure 3.21: Indian wind maintenance market in 2012
Figure 3.22: ROW wind operation and maintenance market in 2012
Figure 3.23: ROW wind operation market in 2012
Figure 3.24: ROW wind maintenance market in 2012
Figure 3.25: Global wind O&M market by service providers
Figure 3.26: European wind O&M market by service providers
Figure 3.27: North American wind O&M market by service providers
Figure 3.28: APAC wind O&M market by service providers
Figure 3.29: Key ISP companies' market share in the global ISPs market

CHAPTER 4. Global Wind Operation and Maintenance Service Market Trend Analysis 2007- 2012

Figure 4.1: Global wind operation and maintenance market trend by region 2007-12
Figure 4.2: Global wind operation and maintenance market trend by type of service 2007-
Figure 4.3: Global wind O&M market trend by segment 2007 & 2012
Figure 4.4: European wind operation and maintenance market trend by type of service 2007-12
Figure 4.5: European wind O&M market trend by segment 2007 & 2012
Figure 4.6: North American wind operation and maintenance market trend by type of service 2007-12
Figure 4.7: North American wind O&M market trend by segments 2007 & 2012
Figure 4.8: The US wind operation and maintenance market trend by type of service

2007-12

Figure 4.9: The US wind maintenance O&M market trend by segments 2007 & 2012

Figure 4.10: APAC wind operation and maintenance market trend by type of service
2007-12

Figure 4.11: APAC wind O&M market trends by segments 2007 & 2012

Figure 4.12: China wind operation and maintenance market trend by type of service
2007-12

Figure 4.13: China wind maintenance O&M market trend by segments 2007 & 2012

Figure 4.14: India wind operation and maintenance market trend by type of service
2007-

Figure 4.15: India wind maintenance O&M market trend by segments 2007 & 2012

Figure 4.16: ROW wind operation and maintenance market trend by type of service
2007-12

Figure 4.17: ROW wind maintenance O&M market trend by segments 2007 & 2012

Figure 4.18: Gross, operational, and net profit margins trend of global wind operation
and maintenance market (2007-2012)

Figure 4.19: Cost structure trend of global wind operation and maintenance market
(2007-12)

Figure 4.20: Cost structure trend of North American wind operation and maintenance
market (2007-12)

Figure 4.21: Cost structure trend of European wind operation and maintenance market
(2007-12)

Figure 4.22: Cost structure trend of APAC wind operation and maintenance market
(2007-12)

CHAPTER 5. GLOBAL WIND OPERATION AND MAINTENANCE SERVICE MARKET FORECAST ANALYSIS 2013-2018

Figure 5.1: Global wind operation and maintenance market forecast by region
2013-2018

Figure 5.2: Global wind operation and maintenance forecast by type of service 2013-
2018

Figure 5.3: Global wind O&M market forecast by segments 2012 and 2018

Figure 5.4: European wind operation and maintenance market forecast by type of
service 2013 2018

Figure 5.5: European wind O&M market forecasts by segments 2012 & 2018

Figure 5.6: North American wind operation and maintenance market forecast by type
of service 2013-18

Figure 5.7: North America wind O&M market forecasts by segments 2012 & 2018

Figure 5.8: The US wind operation and maintenance market forecast by type of service 2013-18

Figure 5.9: The US wind O&M market forecasts by segments 2012 & 2018

Figure 5.10: APAC wind operation and maintenance market forecast by type of service 2013-2018

Figure 5.11: APAC wind O&M market forecasts by segments 2012 & 2018

Figure 5.12: China wind operation and maintenance market forecast by type of service 2013-2018

Figure 5.13: China wind O&M market forecast by segments 2012 & 2018

Figure 5.14: Indian wind operation and maintenance market forecast by type of service 2013-2018

Figure 5.15: India wind O&M Market forecasts by segments 2012 & 2018

Figure 5.16: ROW wind operation and maintenance market forecast by type of service 2013-2018

Figure 5.17: ROW wind O&M market forecasts by segments 2012 & 2018

Figure 5.18: Drivers and challenges in wind O&M market

CHAPTER 6. New Opportunities and Emerging Trends in Global Wind Operation and Maintenance Service market

Figure 6.1: Global wind O&M market opportunity in different regions 2018

Figure 6.2: Emerging trends in global wind O&M market Figure 6.3: Developing better wind O&M strategies

Figure 6.4: Unmet need in global wind O&M market LIST OF TABLES

CHAPTER 1. EXECUTIVE SUMMARY

Table 1.1: Market parameters for global wind operation and maintenance market and attributes of Usage

CHAPTER 2. THE WIND O&M MARKET BACKGROUND AND CLASSIFICATIONS

Table 2.1: Major wind components failure estimates by different models (years) in the life span of wind turbine. (Source-NREL report)

Table 2.2: Time consumed by major components in repair (In man-hours) Source-NREL report

CHAPTER 3. GLOBAL WIND OPERATION AND MAINTENANCE SERVICE MARKET ANALYSIS 2012

Table 3.1: European wind O&M market in 2012

Table 3.2: North American wind O&M market in 2012

Table 3.3: The US wind O&M market in 2012

Table 3.4: APAC wind O&M market in 2012

Table 3.5: China wind O&M market in 2012

Table 3.6: Indian wind O&M market in 2012

Table 3.7: ROW wind O&M market in 2012

Table 3.8: Competitive mapping of global ISPs

Table 3.9: Customer satisfaction scores for the major O&M service providers in Germany 2004 -2007 (based on the results of the BWE surveys published in the New Energy magazine)

CHAPTER 4. GLOBAL WIND OPERATION AND MAINTENANCE SERVICE MARKET TREND ANALYSIS 2007- 2012

Table 4.1: Global wind O&M market trend by region 2007-2012

Table 4.2: Global wind O&M market trend by services 2007-2012

Table 4.3: European wind O&M market trend 2007- 2012

Table 4.4: North American wind O&M market Trend 2007- 2012

Table 4.5: The US wind O&M Market trend 2007- 2012

Table 4.6: APAC wind O&M market trend 2007- 2012

Table 4.7: China wind O&M market Trend 2007-2012

Table 4.8: Indian wind operation and maintenance market trend 2007-2012

Table 4.9: ROW wind O&M market trend 2007-2012

CHAPTER 5. GLOBAL WIND OPERATION AND MAINTENANCE SERVICE MARKET FORECAST ANALYSIS 2013-2018

Table 5.1: Global wind O&M market forecast by region 2013- 2018

Table 5.2: Global wind O&M market forecast by cost 2013- 2018

Table 5.3: European Wind O&M Market forecast 2013- 2018

Table 5.4: North American wind O&M market forecast 2013-2018

Table 5.5: The US wind O&M market forecast 2013- 2018

Table 5.6: APAC wind O&M market forecast 2013-2018

Table 5.7: China wind O&M market forecast 2013-2018

Table 5.8: Indian wind O&M market forecast 2013- 2018

Table 5.9: ROW wind O&M market forecast 2013- 2018

CHAPTER 7. APPENDIX

Table 7.1: List of raw material suppliers

Table 7.2: List of design and development service providers

Table 7.3: List of gearbox suppliers

Table 7.4: List of bearings suppliers

Table 7.5: List of tower suppliers

Table 7.6: List of generator and power converter suppliers

Table 7.7: List of Europe wind blade suppliers

Table 7.8: List of North America wind blade suppliers

Table 7.9: List of APAC and ROW wind blade suppliers

Table 7.10: List of Europe wind turbine OEMs

Table 7.11: List of North America wind turbine OEMs

Table 7.12: List of APAC and ROW wind turbine OEMs

Table 7.13: List of electronic equipment suppliers

Table 7.14 List of European independent service providers

Table 7.15 List of North American independent service providers

Table 7.16 List of APAC independent service providers

Table 7.17: List of construction companies

I would like to order

Product name: Growth Opportunities in Global Wind Operation and Maintenance Services Market 2013?2018: Trends, Forecast, and Opportunity Analysis

Product link: <https://marketpublishers.com/r/G8B987B8A50EN.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/G8B987B8A50EN.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

